

INDEX PAGE INSIDE BACK COVER.

# CINCINNATI COOPERAGE COMPANY.

• • • •  
**Cincinnati, Ohio.**

See Pages 56a and 56b.

# The Cleveland Faucet Co.

CLEVELAND, NEW YORK AND CHICAGO.

MAKERS OF THE

CHAMPION PUMP.  
See Page 12.

American Brewers'  
Review CHICAGO, ILL.

..1896..

..1896..

**Brewers' Guide**

WAHL & HENIUS,

— American Brewing Academy  
CHICAGO, ILL.

—♦♦ OTTO'S ♦♦—

... NEW ...

Brewers' Grains Drying Apparatus

OFFICE, 15-25 WHITENALL STREET,

L. BRAUNS,  
SUCCESSION TO F. E. OTTO.

NEW YORK.

ROBT W. WALSH.

FRED K. WIDMARH.

C. D. BOISBLIEU.

E. JUNGENFELD & CO.

-----  
Brewers' Architects and Engineers

ST. LOUIS.

NEW YORK

RECEIVED

ACK'D

BY

3/8/97

# THE GERMAN-AMERICAN FILTER COMPANY.

(Successors to S. & F. UHLMANN)

69 Broad Street, - - NEW YORK.

## THE PATENT PERFECT BEER FILTER,

Patented May 27, 1887.—Re-issue December 27, 1887. Process Patent, Feb. 21, 1888.—Apparatus Patent, January 13, 1891.

### **System Stockheim.**

THE ONLY PERFECT BEER FILTER in the Market.

## Save Isinglass and Chips.

More than 3,000 of these Filters are now in use in the leading breweries in the United States, Germany, Austria, Switzerland and France.

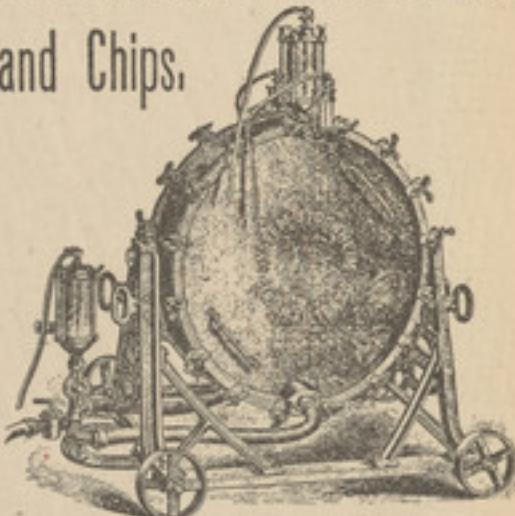
It imparts Brilliancy to the Beer.

Eliminates all Sediment.

Insures Constant Uniformity,

and is therefore of

**Special Value for BOTTLING BEER.**



**NOTICE.**—Our contract with the inventor requires us to prosecute vigorously all persons manufacturing, importing, selling or using any similar apparatus, which in any manner infringes or interferes with his invention, and brewers are hereby cautioned against giving orders for any similarly constructed machine, or any involving, in whole or in part, the principle claimed by the inventor, and we therefore call special attention to Patent No. 378,379, for the process of filtering beer, dated February 21, 1888, also to Patent No. 444,733, for a filtering apparatus, dated January 13, 1891, granted to S. & F. UHLMANN, assignees of HEINRICH STOCKHEIM, Mannheim, Baden.

For the purpose of protecting our customers we will defend, at our own cost, any suit brought by any person disputing our sole and exclusive right to this patent filter, and as adequate protection we have deposited with The Central Trust Co. of New York the bond of Messrs. S. & F. UHLMANN for the amount of \$100,000, under a contract between said firm and the United States Brewers' Association..

See four following pages.

Sent by Amer. Brewers' Review Co.

317435

Over 1,000 STOCKHEIM FILTERS have been Bought and are in  
Successful Operation in the following Breweries  
in the United States:

**Alabama.**

Birmingham, Birmingham B'g Co. 1  
—Schillinger, Ph., B'g Co. 1  
Montgomery, Montgom'y B'g Co. 1

**California.**

Boca, Boca Brewing Co. .... 1  
Los Angeles, Maier & Zobelein ... 1  
Sacramento, Buffalo B'g Co. .... 1  
San Francisco, Enterprise B'g Co. .... 1  
—National B'g Co. .... 1  
—San Francisco Breweries. .... 2  
—Wieland, John, B'g Co. .... 2  
San Jose, Fredericksburg B'y .... 2

**Colorado.**

Denver, Neef Bros. .... 1  
—Zang, Ph., B'g Co. .... 3  
Durango, Durang B'g Co. .... 1

**Connecticut.**

Bridgeport, Wintter, A., & Co. .... 1  
Hartford, Fischer, Hubert .... 1  
—Herold Capitol B'g Co. .... 1  
Meriden, Meriden B'g Co. .... 2  
New Haven, Fresenius', Ph., Son's 1  
—Quinnipiac Brewing Co. .... 1

**Delaware.**

Wilmington, Hartman & Fehrenbach B'g Co. .... 1  
—Lengel, John A. .... 1  
—Stoeckle, Johanna S. .... 1

**District of Columbia.**

Wash'gton, Heurich, Chr., B'g Co. 1  
—National Capital B'g Co. .... 1  
—Washington B'y Co. .... 1

**Georgia.**

Atlanta, Atlanta B'g Co. .... 1  
Augusta, Augusta B'g Co. .... 1  
Brunswick, Brunsw'k B'g & Ice Co. .... 1  
Columbus, Chattahoochee B'g Co. .... 1  
Macon, Acme B'g Co. .... 1  
Savannah, Savannah B'g Co. .... 1  
—Georgia B'g Association. .... 1

**Illinois.**

Aurora, Aurora B'g Co. .... 1  
Bentonville, Star B'y Co. .... 1  
—Western B'y Co. .... 1  
Blue Island, Koenecke, August. .... 1  
Chicago, American B'g Co. .... 2  
—Bartholomae & Leicht B'g Co. 3  
—Bartholomae & Roesing B'g Co. .... 2  
—Bavarian B'g Co. .... 1  
—Birk Bros. B'g Co. .... 1  
—Bohemian B'g Co. .... 1  
—Brand, Michael B'g Co. .... 1  
—Brewer & Hoffmann B'g Co. .... 2  
—Chicago B'g Co. .... 1  
—Citizens' B'g Co. .... 1  
—Cooke B'g Co. .... 1  
—Dewes, F. J. B'g Co. .... 2  
—Eagle B'g Co. .... 1  
—Ernst Bros. B'g Co. .... 4  
—Fecker B'g Co. .... 1  
—Gottfried B'g Co. .... 3

Chicago, Greiner, Albin ..... 1

—Hand, Peter, B'g Co. .... 1

—Hiadovec, Jos. B'g Co. .... 1

—Hoerber, John L. B'g Co. .... 1

—Independent B'g Co. .... 2

—Junk, Magdalena ..... 1

—Keeley B'g Co. .... 3

—McAvoy B'g Co. .... 2

—Manhattan B'g Co. .... 1

—National B'g Co. .... 1

—North Western B'g Co. .... 2

—Schoenhofen, Peter, B'g Co. .... 3

—Seipp, Conrad, B'g Co. .... 6

—Standard Brewery ..... 2

—Star Brewery Co. .... 1

—Stege, Edward R. .... 1

—United States B'g Co. .... 1

—Wacker & Birk B'g Co. .... 2

—West Side Brewery Co. .... 3

Decatur, Decatur B'g Co. .... 1

East St. Louis, Heim's Brewery. .... 1

Galena, Enberg, Caspar, & Sons. .... 1

Joliet, Porter, E. B'g Co. .... 1

—Sehring, Fred., B'g Co. .... 1

Kankakee, Radeke, F. D., B'g Co. .... 1

La Salle, Star B'g Co. .... 1

Mendota, Henning, C., & Sons. .... 1

Pekin, Winkel B'g Co. .... 1

Peoria, Gipps B'g Co. .... 1

—Leisy B'g Co. .... 1

—Union B'g Co. .... 1

Peru, Peru Beer Co. .... 1

—Star-Union B'g Co. .... 1

Quincy, Dick Bros., Quincy B'g Co. 2

—Ruffs B'g Co. .... 1

Rock Island, Huber, Ignatz .... 1

—Wagner, Robert .... 1

South Chicago, S. Chicago B'g Co. .... 1

Springfield, Reisch, F. & Bros. .... 2

Thornton, Bielfeldt, John S. .... 1

Wheeling, Wheeling B'g Co. .... 1

Wilmington, Markert & Co. .... 1

Woodstock, W'dst'k B'g & Bot. Co. 1

**Indiana.**

Aurora, Crescent B'g Co. .... 1

Evansville, Cook, F. W., B'g Co. .... 2

—Evansville B'g Co. .... 1

Indianapolis, Home B'g Co. .... 1

—Indianapolis B'g Co. .... 1

—Lieber, P. B'g Co. .... 1

—Mans, C. .... 1

—Schmidt, C. F. .... 1

Logansport, Logansport B'g Co. .... 1

Madison, Madison B'g Co. .... 1

Michigan City, Zorn, Ph., B'g Co. .... 1

New Albany, Indiana B'g Co. .... 1

Terre Haute, Terre Haute B'g Co. .... 1

Vincennes, Hack & Simon ..... 1

**Iowa.**

Davenport, Frahm, M., & Sons. .... 1

Dubuque, Glab Bros. .... 1

—Heeb, A. B'g Co. .... 1

—Schmid Bros. B'g Co. .... 1

—Tschirgi & Schwind .... 1

Dyersville, Esch Bros. .... 1

Lyons, Tritschler & Tiesse. .... 1

**Kentucky.**

Florence, Brenner, J., B'g Co. .... 1

See preceding page and following three pages.

BREWERS  
VTR

<b>Kentucky.</b>	
Louisville, Fehr, Frank.....	2
—Schaefer-Meyer B'g Co.....	1
—Senn & Ackermann B'g Co ..	1
—Stein B'g Co.....	1
Newport, Wiedemann, G., B'g Co: 1	
<b>Louisiana.</b>	
New Orleans, American B'g Co... 1	
—Crescent City Branch.....	1
—Jackson B'g Co. ....	1
—Louisiana Branch.....	1
—New Orleans B'g Ass'n .....	1
<b>Maryland.</b>	
Baltimore, Bauernschmidt & Marr B'g Co.....	1
—Bauernschmidt, Geo., B'g Co. 2	
—Brehm, George.....	1
—Helldorfer's, S., Sons .....	1
—National B'g Co .....	3
—Standard B'g Co.....	1
—Von der Horst, J. H .....	1
—Wehr, Hobelmann & Gottheb 2	
Cumberland, Cumberland B'g Co. 1	
<b>Massachusetts.</b>	
Boston, American B'g Co.....	2
—Burkhardt B'g Co.....	2
—Habich & Co.....	1
—Haffenreffer & Co.....	2
—Houghton, A. J., Co.....	2
—McCormick Brewery Co.....	1
—Pfaff, H. & J., B'g Co.....	2
—Roessle Brewery.....	2
—Smith, Wm., & Co.....	2
—Suffolk B'g Co.....	2
Charlestown, Van Nostrand, A. G. 1	
Lawrence, Stanley & Co.....	1
Lowell, Consumers' B'g Co .....	
Pittsfield, Berkshire B'g Ass'n .....	
Springfield, Kalmbach & Geisel .....	
—Springfield B'g Co.....	2
Worcester, Bowler Bros.....	2
<b>Michigan.</b>	
Bay City, Bay City B'g Co.....	1
Detroit, Detroit B'g Co.....	1
—Detroit Breweries .....	1
—Ekhardt & Becker B'g Co.....	1
—Home B'g Co.....	1
—Koppitz-Melchers B'g Co .....	1
—Millenbach B'g Co.....	1
—Peninsular B'g Co.....	1
—Phoenix B'g Co.....	1
—Stroh, B., B'g Co.....	1
—Voigt B'g Co.....	5
—Westphalia B'g Co.....	1
Escanaba, Escanaba B'g Co.....	1
Jackson, Haenle B'g Co .....	1
Lake Linden, Bosch B'g Co.....	1
Manchester, Koch, John.....	1
Menominee Leisen & Henes B'g Co.....	
—Menominee River B'g Co.....	
Muskegon, Muskegon B'g Co.....	
Ipslanti, Foerster, L. Z., B'g Co..	
<b>Minnesota.</b>	
Litchfield, Lenhardt, E.....	1
Mankato, Bierbauer, William....	1
Minneapolis, Glück's B'g Co .....	1
—Minneapolis B'g & Malt'g Co. 2	
—Orth, John, B'g Co.....	1
Owatonna Fuermann, Chas., B'g Co.....	1
<b>Missouri.</b>	
St. Paul, Funk, M., B'g Co.....	1
—Hamm, Theo.....	1
—Stahlmann, Ch., B'g Co.....	1
St. Peter, Engesser B'g & M'g Co. 1	
Winona, Bub, Peter.....	1
<b>Montana.</b>	
Cape Girardeau, Cape B'y & Ice Co. 1	
Kansas City, Bavarian B'g Co,...	1
—Heim, Ferd., B'g Co.....	2
—Iler, J. D .....	1
St. Joseph, Goetz, M. K. ....	1
St Louis, American B'g Co. ....	2
—Anheuser-Busch B'g Ass'n .....	3
—Anthony & Kuhn B'g Co.....	1
—Brinkwirth-Nolker B'g Cos. 3	
—Cherokee Brewery .....	1
—Columbia B'g Co .....	3
—Excelsior Brewery .....	1
—Green Tree Brewery .....	1
—Griesedieck, A., Brewery .....	1
—Home Brewery .....	2
—Hyde Park Brewery .....	1
—Lemp, Wm. J. B'g Co.....	10
—National Brewery .....	1
—Obert, L .....	1
—St. Louis B'g Ass'n .....	4
—Wainwright Brewery .....	2
<b>Nebraska.</b>	
Omaha, Krug, Fred., B'g Co.....	2
—Metz Bros. B'g Co.....	1
—Omaha B'g Ass'n .....	1
<b>New Hampshire.</b>	
Portsmouth, Eldridge B'g Co....	2
<b>New Jersey.</b>	
Elizabeth, Rising Sun B'y Co....	2
Guttenberg, Hammersen, A., B'g Co .....	1
Harrison, Hauck, Peter & Co.....	2
Newark, Ballentine & Co.....	6
—Essex Co. B'g Co, .....	1
—Feigenspan, C.....	3
—Fergg, John .....	1
—Hensler, Jos., B'g Co.....	2
—Hill's Union B'y Co .....	1
—Home B'g Co.....	1
—Kastner, F. J. Co .....	2
—Krueger, Gottfried, B'g Co .....	2
—Lisiewski, Fred .....	1
—Lyon & Sons' B'g Co .....	1
—Wiedenmayer, Geo. W.....	1
Paterson, Hinchliffe B'g Co .....	1
—Braun Bros .....	1
—Katz Bros .....	1
—Sprattler & Mennel .....	1
Trenton, Trenton B'g Co .....	1
Union Hill, Bermes, D.....	1
—Peter, Wm. B'g Co.....	2
<b>New Mexico.</b>	
Albuquerque, S. W. B'g & Ice Co. 1	
<b>New York.</b>	
Albany, Dobler B'g Co.....	1
—Hedrick B'g Co .....	1
—Hineckel B'g Co .....	2
—Beverwyck Brewing Co .....	2
Amsterdam, Bowler, Harry F .....	1

See preceding two and following two pages.

**New York.**

Auburn, Koenig, C. A.	1	Rochester, Rochester B'g Co.	4
—Sutcliffe B'g Co.	1	—Union B'g Co.	1
Binghamton, Laurer B'g Co.	1	Rosebank, Bachmann B'g Co.	2
Brooklyn, Abbot-Katz B'g Co.	1	Schenectady, Schenectady B'g Co.	1
—Budweiser B'g Co.	3	Stapleton, Bechtel, George.	3
—Claus Lipsius B'g Co.	2	—Rübsam & Horrmann B'g Co.	1
—Congress B'g Co.	1	Syracuse, Bartels B'g Co.	1
—Danenberge & Coles.	1	—Crystal Spring B'g Co.	1
—Eppig, Joseph.	2	—Haberle B'g Co.	1
—Eppig, Leon.	2	Troy, Fitzgerald Bros.	1
—Fallert, Joseph, B'g Co.	2	—Quandt B'g Co.	1
—Huber, Otto, Brewery.	1	—Ruscher & Co.	1
—Ibert, Frank, B'g Co.	1	Utica, Eagle B'g Co.	1
—Liebmann's, S. Son's B'g Co.	1	—West End B'g Co.	1
—Long Island Brewery.	3		
—Malcom B'g Co.	1		
—Meltzer Bros.	1		
—Muensch, Ferd., Brewery.	2		
—North American B'g Co.	1		
—Obermeyer & Liebmann.	2		
—Seitz's, N., Sons.	2		
—Ulmer, Wm.	1		
—Welz & Zerweck.	2		
Buffalo, Beck, Magnus, B'g Co.	1		
—Buffalo Co-oper. B'g Co.	1		
—Gambrinus B'g Co.	1		
—Germania B'g Co.	1		
—International B'g Co.	1		
—Lang, Gerhard.	5		
—Rochevot, G.	1		
—Schusler, J., B'g Co.	2		
—Star Brewery.	1		
—Ziegele B'g Co.	1		
Canajoharie, Bierbauer, Louis.	1		
College Point, Mutual B'g Co.	1		
Dobbs Ferry, Anchor B'g Co.	1		
Ellenville, Kuhlmann, Catherine	1		
New York City, Ahles, Jac., B'g Co.	1		
—American B'g Co.	2		
—Beadleston & Woerz.	5		
—Bernheimer & Schmid.	5		
—Clausen, H., & Son B'g Co.	2		
—Consumers' B'g Co.	1		
—Conville, Thos., B'g Co.	1		
—Doeiger, Peter.	2		
—Ebding, Ph. & Wm., B'g Co.	1		
—Ehret, George.	6		
—Eichler, John, B'g Co.	3		
—Everard, James.	4		
—Finck, A., & Son.	2		
—Haffen, J. & M.	1		
—Hoffmann, Jacob, B'g Co.	3		
—Howard & Childs.	2		
—Hüpfel, J. Chr. G., B'g Co.	2		
—Hüpfel's, A. Son.	4		
—Koehler, Hermann, & Co.	1		
—Kress, John, B'g Co.	2		
—Loewer, V., Gambrinus B'g Co.	3		
—Mayer, David, B'g Co.	2		
—Oppermann, Frederick, Jr.	3		
—Ringier, Geo., & Co.	2		
—Ruppert, Jacob.	7		
—Schaefer, F. & M., B'g Co.	4		
—Schmitt & Schwanenfuegel.	1		
—Stein, Conrad.	3		
—Stevenson, D., B'g Co.	1		
—Yuengling, D. G., Jr., B'g Co.	3		
—Zeltner, Henry.	2		
Niagara Falls, Niagara Falls B'g Co.	1		
Rochester, American B'g Co.	2		
—Bartholomay B'g Co.	7		
—Genesee B'g Co.	2		
—Miller B'g Co.	1		

**Ohio.**

Canton, Canton B'g Co.	1
Cincinnati, Banner B'g Co.	1
—Bellevue B'g Co.	1
—Foss-Schneider B'g Co.	1
—Gambrinus Stock Co.	1
—Gerke B'g Co.	1
—Hauck, John, B'g Co.	1
—Herancourt B'g Co.	1
—Jung B'g Co.	2
—Kauffmann, John, B'g Co.	1
—Lackmann, H., B'g Co.	1
—Moerlein, Chr., B'g Co.	9
—Schaller Bros.	1
—Sohn, J. G., & Co.	1
—Windisch-Mülhauser B'g Co.	6
Cleveland, Baehr, Mrs. M.	1
—Barrett B'g Co.	1
—Bohemian B'g Co.	1
—Cleveland B'g Co.	2
—Columbus B'g Co.	1
—Dieboldt B'g Co.	1
—Gebring, C. E., B'g Co.	2
—Leisy, Isaac, B'g Co.	3
—Mall B'g Co.	1
—Phoenix B'g Co.	2
—Schlatther, L., B'g Co.	2
Columbus, Hoster, L., B'g Co.	3
Dayton, Sachs-Pruden B'g Co.	1
—Schantz, Adam.	1
—Schantz & Schwind B'g Co.	1
Galion, Altstaetter, H.	1
Hamilton, Cincinnati B'g Co.	1
Massillon, Kopp, Anton.	1
Norwalk, Ott, Theresa.	1
Sandusky, Kuebler B'g Co.	2
—Stang B'g Co.	1
Toledo, Buckeye B'g Co.	1
—Eagle B'g Co.	1
—Finlay B'g Co.	3
—Toledo B'g and M'g Co.	2
Youngstown, Renner, Geo. J. Jr.	1

**Oregon.**

Portland, Gambrinus B'g Co.	1
—Weinhardt, Henry.	1

**Pennsylvania.**

Allegheny, Eberhardt & Ober B'g Co.	2
—Lutz, D., & Son.	1
—Ober, Frank L. & Bro.	1
Allentown, Birkenstock, John.	1
Altoona, Enzbrenner, John M.	1
—Hoelle, Martin.	1
Bennett, Bauerlein, C., B'g Co.	2
—Enz, M., B'g Co.	1
Carrollton, Blum, B. A.	1
—Farabaugh, C. A.	1
Columbia, Columbia B'g Co.	1
Connellsville, Connells'le B'g Co.	1

See preceding three anti following page.

Pennsylvania.		
Erle, Ball, Chas. E.	1	
—Koehler, Fred., & Co.	1	
—Kochler, Jackson	1	
Easton, Kuebler, Willibald.	1	
—Seitz Bros.	1	
Hazleton, Arnold, John.	1	
Lancaster, Haefner, J.	1	
—Rieker, F. A.	1	
Lebanon, New Lebanon B'g Co.	1	
Mahanoy City, Kaier B'g Co.	1	
Mt. Pleasant, Mt. Pleasant B'g Co.	1	
Norristown, Scheidt, A. B'g Co.	1	
Philadelphia, Arnhold & Schaefer B'g Co.	2	
—Baltz, J. & P., B'g Co.	2	
Bergdoll, L. B'g Co	2	
Bergner & Engel B'g Co	6	
Betz, John F., & Son, Ltd.	2	
Continental B'g Co.	1	
Esslinger, George	1	
Excelsior B'g Co.	1	
Fell, Frederick	1	
Germania B'g Co.	1	
Keller, George, B'g Co.	1	
Klein, Phil., & Son	1	
Köhne, Joseph	2	
Liebert & Obert	1	
Miller, John C., B'g Co.	1	
Mueller, Henry, Estate of.	1	
Nichterlein, Theodore C.	1	
Philadelphia B'g Co.	2	
Poth, F. A., & Sons.	3	
Prospect B'g Co.	2	
Rieger, Joseph	1	
Rothacker, G. F., B'g Co.	1	
Roehm, John	1	
Schlemmer, A.	1	
Schmidt, C. & Sons	3	
Vollmer, Elizabeth	1	
Weger Bros.	1	
Weihmann, John	1	
Weisbrod & Hess	1	
Welde & Thomas B'g Co.	1	
Pittsburg, Iron City B'g Co.	2	
—Keystone B'g Co.	1	
—Pier & Dannals	1	
—Straub B'g Co.	1	
—Wainwright B'g Co.	3	
—Winter, M., & Bros	2	
Pittston, Hughes & Glennon.	1	
Pottsville, Yuengling, D.G., & Son	1	
Scottsdale, Scottsdale B'g Co.	1	
Scranton, Robinson's, E., Sons	2	
Titusville, Theobald, Francis	1	
Wilkesbarre, Reichards & Weaver	2	
—Stepmaier, C., & Son	2	
Williamsport, Koch, A., & Bro.	1	
York, York B'g Co.	1	
Rhode Island.		
Providence, American B'g Co	1	
—Molter, H. T. & J. N.	2	
—Narragansett B'g Co.	2	
—Rhode Island B'g Co	1	
South Carolina.		
Charleston, Palmetto B'g Co	1	
Tennessee.		
Knoxville, Gerst, Wm., B'g Co.	1	
The Stockheim Filter is in operation in most all of the leading European Breweries.		
See preceding four pages.		
AND OTHERS		
Knoxville, Knoxville B'g Co.	1	
—Tennessee B'g Co.	1	
Texas.		
Dallas, Dallas Brewery Co.	1	
Fort Worth, Texas B'g Co.	1	
Houston, Houston Ice & B'g Co.	1	
San Antonio, Alamo Brewery	1	
—San Antonio B'g Ass'n.	1	
Utah.		
Salt Lake City, Salt Lake City B'g Co.	1	
Vermont.		
Bellows Falls, Mountain Spring B'g Co.	1	
Virginia.		
Alexandria, Portner, R., B'g Co.	2	
Richmond, Stumpf, Peter, B'g Co.	1	
Roanoke, Virginia B'g Co.	1	
Washington.		
Seattle, Braun, Albert, B'g Ass'n	1	
—Claussen-Sweeney B'g Co.	1	
—Seattle B'g & M'g Co.	1	
Tacoma, Puget Sound B'g Co.	2	
West Virginia.		
Wheeling, Reymann B'g Co.	3	
—Schmulbach B'g Co.	2	
Wisconsin.		
Appleton, Walter, Geo.	1	
Chippewa Falls, Leinenkugel, Jac.	1	
Eau Claire, Walter, John, & Co.	1	
Fond du Lac, Bertrand B'g Co.	1	
Green Bay, Hagemeyer B'g Co.	1	
—Hochgreve, C. & Son	1	
—Rahr's Sons, Henry	1	
La Crosse, Gund, John, B'g Co.	2	
—Michel, C. & J., B'g Co.	1	
Madison, Fauerbach B'g Co.	1	
—Hausmann B'g Co.	1	
Medford, Medford B'g Co.	1	
Milwaukee, Blatz, Val., B'g Co.	8	
—Gettelmann, A., B'g Co.	1	
—Miller, Fred., B'g Co.	5	
—Obermann, J., B'g Co.	1	
—Pabst B'g Co.	23	
—Schlitz B'g Co.	14	
Neillsville, Eiler, Ernst	1	
Oconto, Oconto B'g Co.	1	
Oshkosh, Horn & Schwalm.	1	
—Kuenzl, Lorenz	1	
—Rahr, Chas	1	
Platteville, Hoppe, Fritz	1	
Potosi, Schumacher, A.	1	
Ripon, Haas, John	1	
Shawano, Raddant, Emil T.	1	
Sheboygan, Gutsch B'g Co.	1	
Washburn, Washburn B'g Co.	1	
Waukesha, Waukesha, Spring B'g Co.	1	
—Wausau, Mathie, F., B'g Co.	1	
—Ruder, Geo., B'g Co.	1	
Watertown, Fuermann, A. B'g Co.	1	
—Hartig & Manz	1	

Looked in 1898  
A. (Very) has 1898  
1898

THE  
**Brewers' Guide**  
FOR THE  
UNITED STATES, CANADA AND MEXICO,  
**1896**  
CONTAINING COMPLETE LISTS OF  
Brewers, Maltsters. and Kindred Trades,  
and Valuable Information for Daily Reference.

---

A Supplement to  
**THE AMERICAN**  
**BREWERS' REVIEW,**

A Monthly Devoted to the Science and Practice of Brewing. Appointed by the United States Brewer's Association for the Publication of Official Communications.

Published in English and German.

CHICAGO. - - - NEW YORK.

---

*Subscription Price \$500 per Annum, Including Supplement.*

---

PUBLISHED BY

**DER BRAUMEISTER PUBLISHING CO.,**  
294 So. Water St., CHICAGO.

25 East 14th Street, NEW YORK CITY.

*Editors:*

Dr. ROBERT WAHL,

Dr. MAX HENIUS.

Q. H. M.

# W. S. T. B. G.

We Sell the

THE NEW YORK  
PUBLIC LIBRARY

**317435**

ASTOR, LENOX AND  
TILDEN FOUNDATIONS,  
1907

**"BEST GOODS"**

at Reasonable Prices.

Correspondence Cordially Invited....

Our advanced process of manufacturing places our Brewers' Corn Goods in the lead of ALL others. Write for our "Chemical Analysis."

Shipping Facilities Unsurpassed.

### OUR MOTTO!

Promptness in executing orders. Untiring in efforts to both satisfy and please our customers. TRY US....

# MIAMI MAIZE CO.,

*Toledo, Ohio, U. S. A.*

## MEASURES AND WEIGHTS.

### Lineal.

12 $\frac{1}{2}$ inches, marked in., make 1 foot, marked ft.				
3 ft.	"	1 yard.	"	yd.
5 $\frac{1}{2}$ yd. or 16 $\frac{1}{4}$ ft.	"	1 rod,	"	rd.
320 rd.		1 mile,	"	mi.

#### EQUIVALENT TABLE.

mi.	rd.	yd.	ft.	in.
1 =	320 =	1760 =	5280 =	63360.
	1 =	5 $\frac{1}{2}$ =	16 $\frac{1}{4}$ =	198.
		1 =	3 =	36.
			1 =	12.

REMARKS.—The standard yard of the United States was obtained from England in 1856. It is of bronze, and of due length at 59.8° Fahr. A copy of the former standard is deposited at each state capital: this was about  $\frac{1}{7000}$  of an inch too long.

1 yard = 0.914 meters.

1 foot = 0.305 "

### Solid Measure.

1728 cubic inches make 1 cubic foot.

27 cubic feet " 1 cubic yard.

#### EQUIVALENT TABLE.

cu. yd.	cu. ft.	cu. in.
1 = 27 =	46658.	

### Surface Measure.

144 square inches (sq. in.)	make 1 square foot, (sq. ft.)
9 sq. ft.	" 1 square yard, (sq. yd.)
30 $\frac{1}{4}$ sq. yd.	" 1 square rod, (sq. rd.)
160 sq. rd.	" 1 acre, (A)

#### EQUIVALENT TABLE.

A.	sq. rd.	sq. yd.	sq. ft.	sq. in.
1 = 160 =	4840 =	43560 =	6272640.	
	1 =	30 $\frac{1}{4}$ =	272 $\frac{1}{4}$ =	39204.
		1 =	9 =	1296.
			1 =	144.

1 sq. yard = 0.836 sq. meters,

1 sq. foot = 0.093 sq. meters.

**M. L. FALK.***Established 1872.***D. WORMSER.**

Falk, Wormser & Co.,  
**Hop Merchants**  
**Maltsters,**  
AND DEALERS IN  
Barley and Brewers' Supplies.  
**231 E. Kinzie Street,**  
**CHICAGO.**

---

The  
**Francis Fritsch Mfg. Co.**  
BUILDERS OF  
**Brewers and Maltsters Machinery**  
The Latest Improved  
**HYDRAULIC MASHING MACHINE.**  
(Patented December 3, 1895.)

McMICKEN AVE., DUNLAP AND CLARK STS.,  
CINCINNATI, O.

**Liquid Measure.**

2 pints make one quart,  
 4 quarts " one gallon,  
 31 gallons " one barrel,  
 2 barrels " one hogshead.

**EQUIVALENT TABLE.**

hhd. bbl.	gal.	qt.	pt.
1 = 2 = 63 = 252 = 504			
1 = 31 = 124 = 248			
	1 = 4 = 8		
	1 = 2		

The unit of measure is the standard gallon containing 231 cu. in. and 8.339 lbs. of distilled water at 39° F. (maximum density). One barrel contains 7161 cu. in. of water, weighing 258.5 lbs. at 39° F.

1 gallon = 3.78 liters.

**Dry Measure (for Cereals etc.).**

2 pints, marked pt., make 1 quart, marked qt.  
 8 qt. " 1 peck, " pk.  
 4 pk. " 1 bushel, " bu.

**EQUIVALENT TABLE.**

bu.	pk.	qt.	pt.
1 = 4 = 32 = 64.			
1 = 8 = 16			
1 = 2.			

Standard bushel is the Winchester, which contains 2150.42 cu. in. or 77.627 lbs. of distilled water avoirdupois at 39° F. The quarter is a still used in England; it contains 480 lbs. avoirdupois.

**Avoirdupois or Commercial Weight.**

16 ounces, marked oz., make 1 pound, marked lb.  
 25 lb. " 1 quarter, " qr.  
 4 qr. " 1 hundred-weight, " cwt.  
 20 cwt. " 1 ton, " T.

**EQUIVALENT TABLE.**

T.	cwt.	qr.	lb.	oz.
1 = 20 = 80 = 2000 = 32000.				
1 = 4 = 100 = 1600.				
1 = 25 = 400.				
1 = 16.				

Avoirdupois.	Troy.	Apothecaries
1 lb. = $1\frac{3}{4}$	= $1\frac{3}{4}$	= $1\frac{3}{4}$
1 oz. = $\frac{1}{16}$	= $\frac{1}{16}$	= $\frac{1}{16}$

THE  
**CLEVELAND**  
Faucet Co.

Cut of Pump.



Over 40,000 Champion\*  
in use.  
Beware of Imitations.

MAKERS OF THE

**CHAMPION**  
 Hydraulic Beer Pump,

Bear Pumps and Accessories,  
Workboards and Cooling Devices.

Occupying over 67,856 square feet of  
floor space.

BRANCHES and  
DISTRIBUTING POINTS:

New York, - - - - -	4 Great Jones St.
Chicago, Ill., - - - - -	92 Franklin St.
San Francisco, Cal., - - - - -	208 Ellis St.
St. Louis, Mo., - - - - -	403 Walnut St.
Cincinnati, Ohio, - - - - -	1008 Vine St.
Buffalo, N. Y., - - - - -	393 Broadway
New Orleans, La., - - - - -	133 Exchange Alley
Toronto, Ont., - - - - -	47 Colbourne St.
Los Angeles, Cal., - - - - -	203 South Third St.

MAIN OFFICE AND FACTORIES:

21, 23, 25, and 27 FRANKFORT STREET,  
 CLEVELAND, OHIO.

**Comparison of Weights and Measures.**

bbl.	bu.	cu. ft.	gal.	cu. in.
1.	3.33	4.144	31.	7161.
0.3	1.	1.244	9.39	2150.4
0.2413	0.804	1.	7.476	1728.
0.0323	0.1074	0.1337	1.	231.

**Metric System of Weights and Measures.****LINEAR-UNIT: A METER.**

1 meter =	10 decimeter.
1 " =	100 centimeter.
1 " =	1000 millimeter.
10 " =	1 dekameter.
100 " =	1 hectometer.
1000 " =	1 kilometer.
1 □meter =	100 □decimeter.
1 " =	10000 □centimeter.
1 " =	1000000 □millimeter.
100 " =	1 □dekameter.
10000 " =	1 □hectometer.
1000000 " =	1 □kilometer.
1 cubic meter =	1000 cubic decimeter or liter.
1 " =	1000000 " centimeter.
1 " =	1000000000 " millimeter.
100 liter =	1 hectoliter.

**Metric System of Weights.**

**UNIT: A GRAMM** (weight of a cubic centimeter of water at 4° C.).

1 gramm =	10 decigramm.
1 " =	100 centigramm.
1 " =	1000 milligramm.
10 " =	1 dekagramm.
100 " =	1 hectogramm.
1000 " =	1 kilogramm.

1 meter = 39.37 in. = 3.281 ft. = 1.093 yd.

1 centimeter = 0.3937 in..

1 cubic centimeter = 0.061 cubic in.

1 liter = 0.264 gal. = 61.027 cubic in. = 0.0287 bu.

1 hectoliter = 6103 cubic in. = 3.53 cubic ft.

1 " = 26.41 gal. = 0.852 bbl.

1 " = 2.837 bu.

**HUGO REISINGER,**  
**38 Beaver Street. NEW YORK.**

*SOLE AGENT FOR THE WORLD RENOWNED*

**Enzinger's Patent Rapid Beer Filter,**

*(SYSTEM ENZINGER).*

The Best and Most Rapid Beer Filter in the World.

Nearly 4,000 of the Enzinger Filters are in use in the leading breweries in the United States, Germany, France, Austria, and other countries in the world.

**Notice.** I desire to inform the trade that I have made a settlement with the German American Filter Company, which will protect buyers of the Enzinger Rapid Beer Filter from any litigation under patents claiming to cover these filters.

---

**Hugo Reisinger,**  
**38 Beaver Street, - NEW YORK,**

Sole Agent for the United States and Canada for the

**IMPROVED JOSEPH SCHNEIBLE**

---

**CARBONATING APPARATUS**

*(PATENTED.)*

The Only System of successfully charging Beer, Ale, etc., with Carbonic Acid Gas, Carbonates Ruh Beer evenly direct from the Ruh Cask to the Shipping Package without intervening large vessels.

**NO MORE CHIPS.**      **NO MORE KRAEUSEN.**  
 Indispensable for Export and Bottled Beer.

---

**FRUMENTUM** PATENTED,  
 YIELD 84.

Also...  
 Manufacture  
**WHITE  
WHEAT  
FLAKES.**

Dissolves at 120 F°.  
 Fermentation Perfect.  
 Never causes a mash to settle.  
 Saves 10 to 20 days in making Beer.  
 Yeast much more vigorous than from pure malt.  
 Produces perfect brilliant beer that holds heavy white foam.  
 Mashed in same tub with malt without preparation to the amount of 60 per cent. to 80 per cent. of whole mash.

**SAVES STEAM, TIME AND LABOR.**  
**THE UNITED STATES FRUMENTUM CO.,**  
 DETROIT, MICH.

## KEY TO REFERENCES.

The Breweries are divided into 46 classes according to the number of barrels of fermented liquor sold by each during the year ending June 30, 1896.

Class	SOLD		Class	SOLD	
	FROM	To		FROM	To
A 1	900,000	1,000,000	C 4	60,000	70,000
A 2	800,000	900,000	C 5	50,000	60,000
A 3	700,000	800,000	C 6	40,000	50,000
A 4	600,000	700,000	C 7	35,000	40,000
A 5	500,000	600,000	C 8	30,000	35,000
A 6	400,000	500,000	C 9	25,000	30,000
A 7	350,000	400,000	C 10	20,000	25,000
A 8	300,000	350,000	D 1	18,000	20,000
A 9	250,000	300,000	D 2	16,000	18,000
A 10	200,000	250,000	D 3	14,000	16,000
B 1	190,000	200,000	D 4	12,000	14,000
B 2	180,000	190,000	D 5	10,000	12,000
B 3	170,000	180,000	D 6	8,000	10,000
B 4	160,000	170,000	D 7	7,000	8,000
B 5	150,000	160,000	D 8	6,000	7,000
B 6	140,000	150,000	D 9	5,000	6,000
B 7	130,000	140,000	D 10	4,000	5,000
B 8	120,000	130,000	E 1	3,000	4,000
B 9	110,000	120,000	E 2	2,000	3,000
B 10	100,000	110,000	E 3	1,500	2,000
C 1	90,000	100,000	E 4	1,000	1,500
C 2	80,000	90,000	E 5	500	1,000
C 3	70,000	80,000	E 6	less than	500

New brewing firms that have been in operation less than one year are designated by a paragraph mark, thus ¶

The kinds of beer produced by each brewery are designated by capital letters as follows:

Lager Beer.....L	Porter.....P
Ale.....A	Weiss Beer.....W

Brewers who are also bottlers are designated by the letter B

Brewers who are also maltsters and make all or part of the malt used by them are designated by the capital letter M

Brewers making common beer, steam beer, etc., are classed as making Lager.

FOR TABLES OF REFERENCE AND OTHER INFORMATION  
SEE INDEX.

# RIPLEY ISINGLASS.

The Hauser,  
Brenner & Fath Co.

CINCINNATI, OHIO, U. S. A.



OUR SPECIALTY:

 Storage Tubs,  
Fermenting Tubs,  
Chip Casks and Tubs,

**Beer Barrels,**

<i>Half</i>	"
<i>Quarter</i>	"
<i>Sixth</i>	"
<i>Eight</i>	"

**Repair Shooks, etc.**

CAPACITY, 1,200 PACKAGES DAILY.

CORRESPONDENCE SOLICITED.

# BREWERIES IN THE UNITED STATES

## Classified According to the NUMBER OF BARRELS OF BEER SOLD

During the Year Ending June 30th, 1896.

For number of barrels made, kind or kinds of Beer  
brewed, whether Bottlers or Maltsters, New  
Breweries, etc., see key on page 15.

This Brewers' Guide is issued as a supplement to the "American  
Brewers' Review," and can be obtained only in connection with a sub-  
scription to the paper at \$5.00 a year.

### ALABAMA.

Birmingham.....	Schillinger, Philip Br'g Co.	L B-D 5
Mobile .....	Mobile Brewery.....	L B-D 2
Montgomery .....	Montgomery Brewing Co., Spencer C. Marks, Receiver	L B-D 6
Phoenix City.....	Chattahoochee Brewing Co. (office Columbus, Ga).....	L B-D 10

### ALASKA.

Douglas City.....	Kruzner, John.....	L-E 6
Fort Wrangel.....	Uhler, Henry.....	L-E 6
Juneau .....	Cohen, Marcus J.....	L-E 6
" .....	Gray John F. & Co.....	L-E 6
Sitka.....	Witz, Robert.....	L-E 6

### ARIZONA.

Fort Huachuca.....	Joerger, Andreas.....	L-E 6
Globe .....	Banker, Charles.....	L M B-E 6

### CALIFORNIA.

Alameda .....	Schuler, Lorenz L.....	P L B-E 2
Altaville (Calaveras Co.)	Becker, William.....	L-E 6
Alturas .....	Bogner, Fred.....	B-E 4
" .....	*Joseph Dannhauser .....	L-E 6
Anaheim .....	Conrad, Fred.....	L-E 4
Angels Camp.....	Hubler, Ernst F.....	L P B-E 6

For Key See Page 15.

**CALIFORNIA—CONTINUED.**

Auburn.....	Weber, Julius.....	L-E 5
Benecia.....	Gnauck, Gustav.....	L P M B-E 4
Bishop Creek.....	Munzinger, L. & C.....	L M B-E 6
Bodie.....	Carian, Nicholas.....	L-E 6
Cherokee.....	Bader, Elizabeth.....	L-E 6
Chico.....	Popp, Michael.....	L B-E 5
Cloverdale.....	Reger, Vitol.....	L-E 6
Columbia.....	Nelson, O. C.....	P L-E 6
".....	*Inderries, Chas.....	L-E 6
".....	Bauer, Albert.....	L-E 6
Crescent City .....	Hess, Gottlieb, suc. to Crusius, Frank.....	L-E 6
Dixon.....	Schomer & Oberholzer.....	L-E 6
Downieville.....	Bosch, F.....	L-E 6
Etna Mills.....	Kappler, Chas.....	L M-E 5
Eureka.....	Haltinner, John U.....	L-E 4
".....	Rooney & Degnau.....	L-E 6
Forest Hill.....	Beckstrum, F. A.....	L M-E 6
Fort Bidwell.....	Fulcher, Max.....	A P L M B-E 6
Gibsonville.....	Bressel, J.....	L-E 6
Gilroy.....	Casey, M.....	L-E 6
Grass Valley.....	Binkelmann, Sophia.....	L-E 3
" "	Frank Bros.....	L-E 5
" "	Mitchell, W. F.....	A P L-E 6
Greenwood.....	Muhlbach, Nancy.....	L-E 6
Groveland .....	Muller, Eugene(Garrote Brew- ery).....	L M-E 6
Haywards .....	Bult, Peter.....	L M-E 4
" .....	Palmtag & Heyer.....	L-E 4
Healdsburg.....	Muller, Carl.....	L M-E 6
Hollister.....	Hollister Bry. Co.....	L-E 6
Ione .....	Herschel, Joseph.....	L-E 6
Jackson.....	Strohm, J.....	L B-E 5
Johnsville.....	*Werner, John C.....	L-E 6
Livermore.....	Jordan, Wendell.....	L M B-E 5
Lorin .....	*Wilmot, Chas. & Co.....	L-E 6
Lower Lake.....	Link, C. F.....	L B-E 6
Los Angeles.....	Maier & Zobelein Bry ..	P L M B-C 8
Maryville.....	Sieber, Louis.....	L-E 4
Mayfield.....	Ducker, C.....	L B-E 4
Mendocino.....	Sarowskji, J. C.....	L-E 6
Middletown .....	Munz, M.....	L B-E 6
Modesto.....	Sorensen, R. A.....	L-E 6
Mokelumne Hill .....	Himmighofer & Suessdorf.....	L-E 6

**CALIFORNIA—CONTINUED.**

Monterey . . . . .	Bergischicker, William . . . . .	L-E 6
Napa . . . . .	Wagner, Gottfried . . . . .	L-E 3
Nevada City . . . . .	Gehrig, Geo . . . . .	P L M B-E 4
" "	Hoskin, Israel . . . . .	L-E 6
North Bloomfield . . . . .	Hieronymus, Simon . . . . .	L M-E 6
North San Juan . . . . .	Bronn, Ben R . . . . .	A P. L-E 6
Oakland . . . . .	Helmke, Chas. & Co., cor. 5th and Kirkham sts . . . . .	P M-D 5
" . . . . .	Brooklyn Brewery (San Fran- cisco Breweries, Ltd.) . . . . .	L M-D 6
" . . . . .	Anchor Brewery, Kramm, C. H., 49 Shattuck ave . . . . .	L-E 6
" . . . . .	*Landregan & Ringgenberg . . . . .	L-E 6
Oroville . . . . .	Huelsman, Chas. A . . . . .	L M-E 5
Petaluma . . . . .	*Geiss, Geo. J . . . . .	L-E 6
Pine Grove . . . . .	Brinzing, Martin . . . . .	L-E 6
Placerville . . . . .	Giebenhain Bros . . . . .	L M B-E 4
Port Costa . . . . .	*Braun, F. & Co . . . . .	L-E 6
Quincey . . . . .	Schlatter, Wm . . . . .	L-E 6
Redwood City . . . . .	Freyer, Albert, Eureka Bry. . . . .	L M-D 10
" " . . . . .	*Kreiss, Michael . . . . .	L-E 6
Sacramento . . . . .	Buffalo Brewing Co., 21st st, between Q and R sts . . . . .	L M B-C 8
" . . . . .	Knauer, F. C. (Sacramento Brg. Co.) 9th and P sts . . . . .	L M-C 10
" . . . . .	Ruhstaller, Frk (Sacramento Brg. Co.) 12 st . . . . .	P L M-C 10
" . . . . .	*Schlamberger, Jos . . . . .	L-E 6
Saint Helena . . . . .	Waeckerling, Emil . . . . .	L-E 5
Salinas . . . . .	Menke, J. H . . . . .	L M-E 2
San Andreas . . . . .	Rothgeb, Rudolph . . . . .	L-E 6
San Bernardino . . . . .	Maner, Henry . . . . .	L-E 6
San Francisco . . . . .	Albion Brewery, Ninth ave. and G st. South, estate of J. H. Burnell, prop . . . . .	A P B-E 5
" " . . . . .	Baruth & Schinkel, suc. to Frank A. Lux Brewery Co., Anchor Brewery, 1431 Pacific ave . . . . .	L P-D 6
" " . . . . .	Bavaria Brewery, estate of Anna Maria Frauenholz, n. w. cor. Greenwich and Scott streets . . . . .	L P-D 6

**CALIFORNIA—CONTINUED.**

San Francisco.....	Broadway Brewery, 637 Baoadway, Jacob Adams & Co., proprietors.....	L-D 5
" "	California Brewing Co., Douglas st., betw. Seventeenth and Eighteenth sts.....	L-D 2
" "	Enterprise Brewery, 2015-2023 Folsom st.....	P L B-C 7
" "	Hagemann Brewing Co., 71-75 Everett st.....	P L M-D 1
" "	Hayes Valley Brewery, 512 Grove st., Bose & Jungens, proprietors.....	P L-D 10
" "	Hibernia Brewery, 1225 Howard st., M. Nunan, prop..	P M-C 7
" "	Jackson Brewery, 1428 Mission st., suc. to Wm. Frederick & Co.....	L M-C 6
" "	Knudsen & Nessen.....	L-E 6
" "	Kroenke, Henry C., 725 Green street.....	L-D 5
" "	Milwaukee Brewery, No. 432 Tenth st., suc. to Lurmann & Co.....	L-C 10
" "	National Brewing Co., Fulton and Webster sts.....	P L M B-C 6
" "	North Beach Brewery, Bowell and Chestnut sts., Joseph Schwartz, proprietor.....	L B-E 5
" "	Phoenix Brewery, Thomas J. Kirby, prop., 528 Noe st.	A P B-E 6
" "	Railroad Brewery, Valencia, betw. 15th and 16th streets. Fred. P. Schuster, prop..	L M-D 6
San Francisco Breweries..... Limited.	Chicago Brewery, 1420 Pine st. South San Francisco Brewery, Railroad ave. and Paraguay street.....	L A P M B-C 9 L-D 7
	United States Brewery, 313 Fulton st.....	L A P B M-D 1

**CALIFORNIA**—CONTINUED.

San Francisco.....	Wieland, John, Brewery, 240 Second st ..... L A P M B-B 9
	Willows Brewery, Nineteenth and Mission sts..... L-D 2 SEE ALSO
San Francisco Breweries.... Limited	Brooklyn Brewery, Oakland, Cal..... L-D 6
	Fredericksburg Brewery, San Jose, Cal..... L M B-C 8
	Hofburg Brewery, West Berke- ley..... L-D 6
" "	San Francisco Stock Brewery; 2118 Powell st..... P A M L B-C 9
" "	St. Louis Brewery, 1524 Pacific st., Hy. Behlmer, prop..... ..... L P W B-D 8
" "	Stuber & Welkert, cor. Geary and Baker sts..... L-E 6
" "	Union Brewery, 326 Clemen- tina st., suc. to Henning, Thode & Co..... L-D 4
" "	Washington Brewery, 825 Lombard st., C. Wreden & Co., props..... L P M-C 10
San Jose.....	Fredericksburg Brewery (San Francisco Breweries, Ltd. ..... L M B-C 8
"	Geoffroy Bros..... L-E 2
"	Scherer, Geo..... L M-D 4
San Luis Obispo.....	Weigand & Keller..... L-E 4
San Rafael.....	Gorrl, Fritz..... L-E 4
Santa Barbara.....	Muller, H. R..... L-E 6
Santa Clara.....	Lauck, Geo..... L-E 1
Santa Cruz.....	Bausch & Co..... L M-E 3
"	Beck, Carl..... L E 6
Santa Rosa.....	Haltinner, Jacob, estate of. L M-E 3
Scales.....	Rutishausen, John, estate of. L-E 6
Sheep Ranch.....	Hauselt, John W. A... P L M B-E 6
Sierra City.....	Joos & Kieffer..... -E 6
Sisson.....	Mugler, Peter ..... L M B-E 5
Sonora.....	Baumann, John ..... L M B-E 5
Stockton.....	Eldorado Brewing Co., 208 American st..... L P M-D 9

For Key See Page 15.

**CALIFORNIA—CONTINUED.**

Sutter Creek.....	Raddatz, John.....	L-E 6
Table Rock .....	Wolf, John.....	L-E 6
Tracy .....	Tracy Brewing Co.....	L-E 5
Truckee.....	*Kielhofer, Louis.....	L-E 6
Vallejo.....	Deininger, J. F.....	L-E 2
" .....	Minahæn & Plagemann ..	L M B-E 3
" .....	Widemann, Charles.....	L M-E 1
Vallecita .....	Inderwies, Chas.....	A P L B-E 6
Watsonville.....	Burton & Kuhlitz .....	L-E 5
" .....	Palmtag, F.....	L M-E 2
Weaverville .....	Meckel Bros.....	L B-E 6
West Berkeley.....	Hofburg Brewing Co. (San Francisco Brew's, Ltd.)	L M B-D 6
" .....	American Brewery, Raspiller, Jos. & Co., props.....	L B-D 9
Woodland.....	Goeppert, Geo. & Co.....	L M-E 2
Yreka.....	Junker, Chas.....	L M-E 6
Yuba City .....	Klempp, Fred .....	L M-E 5

**COLORADO.**

Alamosa .....	*Alamosa Brewery .....	L B-E 6
Aspen .....	John Good .....	L-E 5
Boulder.....	Boulder City Brewing Co., Arapahoe avenue....	L M B-D 10
Central City.....	Lehmkuhl, John H.....	L-E 5
" .....	Mack, Martin .....	L-E 4
Del Norte.....	Del Norte Brewing Co....	L M B-E 5
Denver .....	Milwaukee Brewery Co., 1248 10th street.....	A P L M B-D 3
" .....	Neef Bros. Brewing Co., West- ern Brewery, South 5th st. and West 12th ave....	L M B-C 10
" .....	Union Brewing Co., 2431 to 2437 16th st.....	L M-D 2
" .....	Zang, Ph., Brewing Co., 7th and Walter sts.....	L M-B 10
Durango.....	Smelter City Brewing Associa- tion .....	L M B-E 3
Golden.....	Golden Br'y., Coors, Adolph, proprietor.....	A P L M B-C 9
" .....	Colorado Brewing Co....	A P B-E 5
Leadville .....	Gaw, Elizabeth J., California Gulch .....	L-E 5
New Castle.....	New Castle Brewing Co.....	L-E 6
Pueblo.....	*Bohemian Brewing Co.....	L-E 6

**COLORADO—CONTINUED.**

Silverton	Fischer, Chas.	L-E 4
Telluride	Muller & Walter	L-E 6
Trinidad	Schneider, Ph., Brewing Co.	L-D 5
Westcliffe	Carl & Daemgen	L-E 5

**CONNECTICUT.**

Bridgeport	Blakeslee, Edward, 729 State street	W B-E 6
"	Davis, Alonzo D., 18-22 Island Brook ave.	L-E 6
"	Eckart Bros., 202 North ave.	L-D 4
"	Hartman, Chas. H., 127 Hamilton street	L-D 3
"	Kutscher, Wm. F., suc. to Kutscher Bros., 219-223 Maple street	W B-E 5
"	Wintter, Albert & Co. (Connecticut Breweries Co.), 76 North Washington ave.	L-C 10
Bristol	Anderson, Oscar	L-E 6
Hartford	Hubert Fischer Brewery, 315 Park street	L-C 9
"	Herold Capitol Brewing Co., 52-62 Bellevue street	L-D 6
"	Ropkins & Co., 232 Sheldon street	A P B-D 5
Meriden	Meriden Brewing Co. (Connecticut Breweries Co.), 141 South Colony st.	A P L B-C 6
"	Schabel, Albert, Piedmont avenue	W B-E 6
New Haven	Fresenius' Sons, Ph., 488 Congress avenue	L-D 2
" "	Hull, Wm. & Son, 14 Whiting street	A P D 4
" "	Quinnipiac Brewing Co., Ferry, River and East Pearl streets	A P L B-C 2
" "	Ringler, Geo. & Co., 391 Chapel street	A P L M-D 7
" "	Weibel, Theresa F. H., 322 Oak street	L-D 3
" "	Weidemann, Henry, Brewing Co., 209 State street	A L B-D 6

For Key See Page 15.

**COLORADO—CONTINUED.**

Orange .....	Weidemann & Co.....	W B-E 6
Thompsonville .....	Mathewson Bros. & Co.....	A P-E 2
Waterbury .....	Hellman Brewing Co., 1090 street.....	L-D 2

**DELAWARE.**

Wilmington.....	Hartmann & Fehrenbach Br'g Co., Lovering ave. and Scott street.....	P L B-D 1
" .....	Lengel, John A., 5th and Du- pont sts.....	L-D 2
" .....	Schaefer, Mary E., cor 17th and Union sts.....	W B-E 6
" .....	Johanna S. Stoeckle, North- west corner 5th and Adams streets .....	P L-C 7
Wooddale.....	Biedermann, Geo. J.....	L-E 6

**DISTRICT OF COLUMBIA.**

Washington.....	The Albert Brewing Co., cor. 25th and F sts., Northwest.	L B-E 4
" .....	Heurich, Ch., Brewing Co., 26th & Water sts., Northwest.	L-C 5
" .....	Kerwein's Son, George, 124 N. st., Northwest.....	L W B-E 6
" .....	National Capital Brewing Co., 1337-1353 D st., Southeast.	L-C 4
" .....	Washington Brewery Co., 400 E st., Northeast.....	L-C 6

**GEORGIA.**

Atlanta.....	Atlanta Brewing & Ice Co..	L B-C 8
Augusta.....	Augusta Brewing Co.....	L B-D 3
Columbus.....	Chattahoochee Brewing Co. (brewery at Phenix City, Ala).....	L B-D 10
Macon.....	Acme Brewing Co., cor. Bay and Hammond sts.....	L B-C 9
Savannah.....	Georgia Brewing Association, 73 to 83 Bay st.....	L B-D 4
" .....	Savannah Brewing Co.....	L B-C 10

**IDAHO.**

Boise City.....	Brodbeck, John .....	L M B-E 6
" .....	Lemp, John .....	L M B-E 5
Clayton.....	Kopp & Koeninger.....	L-E 6

**IDAHO—CONTINUED.**

Cottonwood .....	Schober & Hendrick.....	L-E 6
Genesee.....	Geiger & Kambich.....	L-E 6
Gibbonsville.....	Hoyle, Dumont & Kern.....	L-E 6
Grangeville.....	Von Berg, Wm. & Co.....	L M-E 6
Hailey .....	Somelieter, Chas.....	L-E 6
Idaho City.....	Rost & Rood .....	L B-E 6
Juliaetta.....	Diamond & Howell .....	L M-E 6
Lewiston .....	Weisgerber, Christ.....	L M-E 5
Moscow .....	Koehler & Herrman.....	L M B-E 6
Rathdrum.....	Reiniger, Henry.....	L M B-E 4
Salmon City.....	Spahn, M.....	L-E 6
Silver City.....	Greete, Frederick, St.....	L-E 6
Soda Springs.....	Largilliere, August.....	L M B-E 6
Wallace .....	Mallon, Carl .....	A P L M B-E 6
Weiser .....	Werneth, Mrs. Sylvester,.....	L-E 6

**ILLINOIS**

Alton.....	Alton Brewing Co., A. Reck, proprietor.....	L B-D 7
" .....	Bluff City Brewery, William Netzhammer, proprietor....	L-D 8
Aurora .....	Aurora Brewery, north end of North River st.....	L M B-C 9
Beardstown .....	Rind, Anton.....	L M B-E 3
Belleville .....	Star Brewery Co., 326 East Main street.....	L B-C 8
" .....	Western Brewery Co., North Gold street .....	L M B-C 6
Bloomington .....	Mayer & Wochner, South Main street.....	L M-D 7
Blue Island.....	*Hansburg, Gustav .....	L-E 6
" .....	Blue Island Brewing Co..	L M B-D 8
Centralia .....	Thoebes, John .....	L B-E 2
Chicago .....	American Brewing Co., office 922 North Ashland ave .....	L-C4
" .....	*Banner Brewing Co., Wilcox ave , s.w. cor. Rockwell st..	L-E 6
" .....	Bartholomae & Leicht Brewing Co. (Milwaukee and Chicago Breweries Co.), 684-796 Sedg- wick street .....	L M-C 5
" .....	Bartholomae & Roesing Brew- ing and Malting Co. (Mil- waukee and Chicago Brew- eries Co.), 333 West Twelfth street, cor. Brown.....	L-C 6

For Key See Page 15.

**ILLINOIS**—CONTINUED.

<b>Chicago</b>	.....	Bavarian Brewing Co., 40th & Wallace sts.....	L M B-C 5
"	.....	Berlin Weiss Beer Co., 345 N. Leavitt st.....	W B-E 1
"	.....	Best Brewing Co., of Chicago, Fletcher street and Herndon avenue.....	L-C 10
"	.....	Birk Bros. Brewing Co., 101- 109 Webster ave.....	L M B-C 5
"	.....	Bohemian Brewing Co. of Chi- cago, 84-106 Blue Island ave.	L-C 5
"	.....	Brand, Michael Brewing Co. (Milwaukee and Chicago Breweries Co.), cor. Elston ave. and Snow st.....	L M B-B 9
"	.....	Brewer & Hoffman Brewing Co., 43-51 South Green st....	L-C 6
"	.....	Cantwell Eagle Brewing Co., 404-416 East Twenty-fifth st.	L-D 4
"	.....	Chicago Brewing Co., 64-80 W. North ave.....	L-C 7
"	.....	Citizens' Brewing Co., corner Archer ave. and Main st..	L B-C 7
"	.....	Columbia Weiss Beer Brewing Co., 70 Osgood st.....	W B-E 2
"	.....	Cooke Brewing Co., Lake shore, foot of Twenty-seventh st.	
			A P L B-C 5
"	.....	Corper, Carl, Br'g and Malt'g Co., 39th st. and Union ave..	L-C 5
"	.....	Dewes, F. J., Brewery Co. (City of Chicago Br'g and Malting Co.,), cor. West Chi- cago and Hoyne aves...	L M B-C 4
"	.....	Eberlein, Gustavus, 562 and 564 North Halsted st.....	W B-E 4
"	.....	Ernst Bros. Brewing Co. (Mil- waukee and Chicago Brew- eries Co.), 59-67 Larrabee st.	L-C 4
"	.....	Excelsior Brewing Co., suc. to Michael Sieben, 335-345 Lar- abee street.....	L M B-D 2
"	.....	Fair City Brewing Co., 1167 Armitage st.....	A-E 6

**ILLINOIS—CONTINUED.**

Chicago.....	Fecker Brewing Co., 871 Dudley st.....	L A P B-C 10
" .....	Fortune Bros. Brewing Co., 138-144 West Van Buren st., office, 225 S. Desplaines st.	L M-C 1
" .....	Funk, Ernst, 50 Osgood st..	W B-E 4
" .....	Gottfried Brewing Co., corner Archer and Stewart avenues and 22d street, office 85 Alexander street.....	L M B-B 2
" .....	Hand, Peter, Brewery Co., 37-59 Sheffield avenue.....	L B-C 6
" .....	Henn & Gabler Brewing Co., 35th and Ullman streets...	L B-C 6
" .....	Hoerber, John L., Brewing Co., 646-660 Hinman street.....	L-C 8
" .....	Home Brewing Co., Kjellberg & Lax, prop., 1294 61st st...	L-E 6
" .....	Independent Brewing Association, 586-612 N. Halsted st.	L-C 3
" .....	Junk, Magdalena, 3704-3710 South Halsted street.....	L-C 7
" .....	Keeley Brewing Co., 28th st., near Cottage Grove ave.	L M B-B 2
" .....	Manhattan Brewing Co., 39th street and Emerald avenue..	L-C 2
" .....	McAvoy Brewing Co. (Chicago Breweries Co.). 2349 South Park avenue.....	L M B-B 8
" .....	Monarch Brewing Co., 1092-1118 West 21st street.....	L-C 3
" .....	Mullen Brewing Co., 469 26th street.....	L-D 2
" .....	National Brewing Co., 846-856 West 18th street.....	L-C 9
" .....	North-Western Brewing Co., 781-831 Clybourn ave., near Fullerton ave .....	L P B-C 5
" .....	Ogren, Chas. F., Brewing Co., 625-629 Shober street...	A P B-E 2
" .....	Pforr, Catherine, 147 Fullerton avenue.....	W B-E 5
" .....	Pohl, Paul, 27-35 Cooper st.	W B-D 9
" .....	Ruehl, William, Brewing Co., 216-224 W. 12th street....	L B-C 5

**ILLINOIS—CONTINUED.**

<b>Chicago</b> . . . . .	Scheffel & Co., 18 and 20 Haw-
"	thorne avenue.....W B-E 4
"	Schmidt, K. G., Brewing Co.
	(Milwaukee and Chicago
	Breweries Co.), 95 Grant
	Place.....L M B-C 4
"	Schoenhofen, Peter, Brewing
	Co., Canalport avenue and
	18th street.....L M B-B 1
"	Seipp, Conrad, Brewing Co.
	(City of Chicago Brewing
	and Malting Co.), foot of
	27th street, east of Cottage
	Grove avenue.....L M B-A 9
"	Siegler & Schiemann Brewing
	Co., suc. to Mader, C. B. &
	Co., rear of 347 Milwaukee
	avenue .....L-E 6
"	South Chicago Brewing Co.,
	Avenue L and 100th st....L B-C 9
"	Stadler, Geo. J., suc. to Ernst
	Fecker, Jr., 863 Dudley st. A P-C 10
"	Standard Brewery, cor. West
	12th street and Campbell
	avenue .....L M B-7C 2
"	Star Brewery Co., 1133-1137
	Fulton street.....L B-C 7
"	Stege, Edward R., 712 South
	Ashland avenue.....L-C 8
"	Tosetti, Ernst, Brewing Co.,
	Wright and 40th sts....L M B-C 3
"	Wacker & Birk Brewing and
	Malting Co. (Chicago Brew-
	eries Co.), cor. Desplaines
	and Indiana streets....L M B-B 9
"	Wagner, Louis, cor. 96th street
	and Commercial avenue.....L-E 5
"	West Side Brewery Co. (City
	of Chicago Brewing and
	Malting Co.), 402-416 North
	Paulina street.....L-B 8
<b>Columbia</b> . . . . .	Gundlach, John & Co., Main
	street.....L M-E 2

**ILLINOIS—CONTINUED.**

Danville.....	Danville Brewery and Ice Co. L B-D 6
" .....	Stein, John ..... L B-E 6
Decatur.....	Decatur Brewing Co., 604 E. Cantrell street..... L M B-D 6
Dixon.....	Clears Brewing Co..... A P M-E 6 " ..... Plein Nicholas, corner Jack- son and Seventh streets.... L-E 2
East St. Louis,.....	Heim Brewery, Branch St. Louis Br'g Association. L M B-C 6 " ..... Schroeder, George..... W B-E 6
Elgin.....	Elgin Eagle Br'g Co, 347 to 379 North State street.... L M B-D 8
Freeport.....	Baier & Ohlendorf..... L M B-D 4 " ..... Haegele & Roth..... L M-E 5 " ..... Milner, George & Co... A P L M-E 5 " ..... Schmich, M & Co..... L M B-D 6
Galena.....	Blum, Martin..... L M B-E 2 " ..... Eulberg, Caspar & Sons..L M B-D 6
Highland.....	Highland Brewing Co.... L M B-D 6
Joliet.....	Porter, Edwin, Br'g Co... A P L-C 8 " ..... Sehring, Fred., Brewing Co., corner Bridge and Summit streets..... L M B-C 9
Kankakee.....	Radeke, F. D., Br'g Co...L M B-D 3
Lebanon.....	Reithman, Mathias..... L-E 6
Mascoutah.....	Mascoutah Brewing Co.. L M B-E 1
McHenry.....	Boley, G. F..... L M-E 3
Mendato.....	Henning Brewing Co... L M B-C 10
Morris.....	Gebhard, William..... L B-D 5
Murphysborough.....	Murphysboro Brewing Co...L B-D 5
Nauvoo.....	Schenk Bros..... L B-E 5
New Athens.....	New Athens Brewery..... L-E 1
Ottawa.....	White, Alfred ..... A P L M B-E 2
Pekin.....	Winkel, August, Br'g Co...L M-E 1
Peoria.....	Gipps Brewing Co..... L M B-C 10 " ..... Home Brewing Co..... L-E 6 " ..... Kohse Brewing Co..... L-E 6 " ..... Leisy Brewing Co..... L B-C 9 " ..... Union Brewing Co..... L M B-D 6
Peru.....	Peru Beer Co..... L M B-D 4 " ..... Star Union Brewing Co..L M B-C 9
Quincy.....	Dick & Bros., Quincy Brewery Co., corner Ninth and York streets..... L M B-C 5

**ILLINOIS—CONTINUED.**

Quiney.....	Gem City Brewing Co., Ninth and Harrison streets.....	L-E 1
" .....	Ruff Brewing Co., cor. Twelfth and Adams streets.....	L M B-D 8
" .....	Schanz, Gottlieb, 600 State street.....	L M-E 2
" .....	Schill, F. X .....	L-E 3
" .....	Wahl Brewing Co., Sixth ave- nue and Chestnut streets, North.....	L M-D 6
Rockford .....	Peacock, J. & Son...A P L M B-E 2	
Rock Island.....	Rock Island Brewing Co., cor. 13th st. and 7th ave....	L M B-C 7
" .....	Magnus Huber.....	W B-E 6
Springfield .....	Reisch, F. & Bros.....	L M B-C 6
Sterling.....	Ebenbauer & Franke.....	L B-D 10
Thornton .....	Bielfeld, John S.....	L M B-E 1
Trenton .....	Bassler, Paul.....	L-E 2
Warsaw .....	Popel & Giller.....	L B-E 1
Waterloo.....	Schorr, Michael.....	L B-E 1
Waukegan.....	Besley's Waukegan Brewing Co., 306 Utica street..A P M B-D 6	
Wheeling .....	Wheeling Brewing Co., Wm. A. Birk, Receiver.....	L M B-E 2
Wilmington .....	Markert & Co.....	L B-D 2
Woodstock.....	Woodstock Brewing and Bot- tling Co.....	L M B-D 8

**INDIANA.**

Anderson .....	Norton, Thomas M.....	L B-D 7
Cambridge City.....	Ingermann, W. H....A L M B-E 6	
Columbia City.....	Walter Raupfer Brewing Co. .....	L M B-D 10
Crown Point.....	Crown Brewing Co.....	L-E 6
Evansville.....	Cook, F. W., Brewing Co., Upper 7th street.....	L B-C 4
" .....	Evansville Br'g Asso- ciation, owning and operating the	L M B-C 6
" .....	Evansville Brewery..	
" .....	Fulton Avenue Br'y..	
Ferdinand .....	Stallman, Haug & Haug ...	L M-E 2
Fort Wayne .....	Berghoff, Hermann Br'g Co.L	L B-C 7
" .....	Centlivre, C. L. Brewing Co., incorporated.....	L M B-C 9

**INDIANA—CONTINUED.**

Hammond .....	Mayer, Chas. H.....	W B-E 6
Haysville .....	Kroedel, Barbara.....	W B-E 6
Huntingburg .....	Moenkhaus, Fritch & Co .....	L-E 4
Huntington .....	Lang, Carl.....	L B-D 9
Indianapolis .....	Home Br'g Co., Cruse st...	L B-C 10
" .....	Indianapolis Br'g Co., owning and operating the	
" .....	Lieber, P., Brew- ing Co.....	A P L M B-B 5
" .....	Maus, C.....	
" .....	Schmidt, C. F.....	
Jasper .....	Hagig & Eckstein.....	L-E 2
Jeffersonville .....	City Brewing Co., cor. Graham and Maple streets.....	L B-E 2
La Fayette.....	Bohrer, Geo. A. Br'g Co., 82 South 4th street.....	L M-D 3
" .....	Thieme & Wagner Brewing Co., North 4th st.....	L M B-C 9
La Porte.....	Russert, John W.....	L M B-D 10
Lawrenceburgh.....	Garnier, J. B.....	L M-D 7
Ligonier.....	Drachter & Co.....	L M B-E 6
Logansport .....	Columbia Brewing Co.....	L B-D 5
Madison .....	Madison Brewing Co., 220 Park avenue.....	A L M B-D 4
" .....	Weber, Mrs. C. L. F., Vine street.....	A L M-D 10
Michigan City.....	Zorn, Philip, Br'g Co....	L M B-D 6
Mishawaka .....	Kamm & Schellinger Brewing Co.....	L M B-D 2
" .....	Van Dinter, L. H.....	W B-E 6
New Albany .....	Engel, Peter.....	L-E 2
" .....	Pank Weinmann Br'g Co., West and Main sts.....	L B-E 1
" .....	Reising, Paul, Brewing Co., cor. Spring and 4th sts...	L M-D 6
New Alsace.....	Meyer, Martin & Co.....	L-E 6
New Haven.....	Strasbourg Brewing Co....	A P-E 6
Oldenburgh.....	Roell, B.....	W B-E 4
Peru.....	Cole, James O.....	L M B-D 8
Richmond.....	Minck, Emil.....	L M B-E 2
South Bend.....	Muessel Brewing Co....	L M B-D 10
Tell City.....	Huthsteiner, Rob. E.....	L-E 1

**INDIANA—CONTINUED.**

Terre Haute.....	Terre Haute Br'g Co.....	L M B-C 1
Troy .....	Winterath, John S.....	L B-E 5
Vincennes.....	Hack & Simon.....	L M-D 1
Wabash .....	Rettig & Alber.....	L M B-E 2

**IOWA.**

Bellevue.....	Nienstadt, Henry .....	L M-E 4
Burlington.....	Heil, Casper.....	L-D 10
" .....	Moehn, Martin .....	L M-D 10
" .....	Werthmueller & Ende .....	L M-E 1
Cascade.....	Vogt, Clemens.....	L M-E 4
Cedar Rapids.....	Magnus, C.....	L M B-D 8
Clinton.....	Andresen, J. P.....	L-E 1
Davenport.....	Davenport Malting Co., office 514 Harrison street.....	C 6
" .....	Independent Malting Co.....	L-E 6
Dubuque.....	Dubuque Malting Co.....	L M B-B 6
" .....	Peaslee, Edward C., cor. 4th and Iowa streets.....	A P B-E 2
Dyersville.....	Esch Bros.....	A L M B-E 5
Fort Madison.....	Stellern, J. G. H.....	L-E 1
Iowa City.....	Dostal, John P.....	L M B-E 1
Keokuk.....	Pechstein & Nagel .....	L-E 1
Lyons .....	Tritschler & Tiesse Malting Co., Main street.....	L B-D 9
Maquoketa.....	Dostal, John .....	L B-E 2
Muscatine .....	Eigenmann, Henry C .....	L M-E 4
Strawberry Point.....	Kleinlein, John .....	L-E 6

**KANSAS.**

Atchison.....	Zibold & Haegelin.....	L M-E 2
Leavenworth.....	Brandon & Beal, 110 Kickapoo street.....	L B-E 1

**KENTUCKY.**

Covington.....	Bavarian Brewing Co., 367-369 Pike street .....	L M B-C 9
" .....	Brenner, John, Br'g Co, 601 to 621 Scott street....	A P L B-C 8
" .....	Covington Brewing Co.....	L-D 6
Henderson.....	Henderson Brewing Co.....	L B-D 6
Louisville.....	Beierle & Schneider, cor. Gaul- bert and Harney streets....	L-E 5
" .....	Bott, John, corner Lexington and Eighteenth streets...	L M-D 9
" .....	Christ., Geo. J. & J. M., 820 to 834 Baxter avenue.....	L M-D 10

# **VACUUM F. F. SYSTEM**

**THE  
PERFECTION OF FERMENTATION**



**CLEAN  
PURE  
RAPID  
THOROUGH**

**UNIFORM BEER OF THE FIRST QUALITY.**

**xxx**

**Now in Use in South Africa,  
Brazil, Argentine Republic  
and Australia ... ...**

**IN USE EVERYWHERE IN THE UNITED  
STATES AND CANADA.**

**No Open Fermentation Tubs,  
No Ruh Storage,  
No Chips,  
No Krausen.**

The "F. F." Fermentation, the Gas Saving, the Filter, Carbonating and Racking Under Pressure, as seen in the Numerous Breweries having Our Latest Improved Complete System will convince the most skeptical brewer.

**PFAUDLER VACUUM FERMENTATION CO.,**

**301 Beckley Bldg.**

**ROCHESTER, N. Y.**

# The Chicago Sugar Refining Co.,

MANUFACTURERS  
OF

# Grape Sugar,

BREWERS' GLUCOSE, STARCH,

Dextrine \*\*\*\*\*

Brewers' Syrups \*

Anhydrous \*\*\*\*\*

Brewers' Extract

Climax Sugars \*\*



And Other Specialties for  
Brewers' Use . . .

Write for Prices and Samples.

Taylor and Beach Sts., CHICAGO, ILL.

P. O. Box 655.

**KENTUCKY—CONTINUED.**

Louisville.....	Diersen, Catherine A., 500 E. Green street.....	L-E 1
" .....	Fehr, Frank, Brewing Co., 430 East Green street.....	L B-C 4
" .....	Huber, Geo. F., 1906 Fifteenth street.....	A M-D 10
" .....	Huber, Henry, 1961 Shelby street.....	L M-D 9
" .....	Lauffer, G., Thirty-fourth and Market streets.....	L M-E 5
" .....	Laux, Peter, Kentucky street, between 16th and 17th sts..	L-E 5
" .....	Nadorff Brewing Co., 1552 Portland avenue.....	L-D 7
" .....	Oertel, John Fred, 1400 Story avenue .....	L M-D 3
" .....	Palmer, W., Brownsborough Road .....	L-E 2
" .....	Phoenix Brewing Co., cor. Bax- ter ave. and Underhill st..	L-C 10
" .....	Schaefer-Meyer Brewing Co., Logan and Lampton sts..	L B-C 10
" .....	Senn & Ackerman Brg. Co., incorp., 1710 Main street..	L B-C 6
" .....	Stein Brewing Co., 1029 East Green street.....	L-D 6
" .....	Steurer, Jacob, Brewing Co., 1372 Story avenue.....	A-D 10
" .....	Walter, J. & Frank, 814 Clay street.....	L M-D 8
" .....	Walter, Henry, 501 E. Ken- tucky street.....	L-D 10
Middlesborough.....	New South Brewing and Ice Co.....	L B-D 6
Newport.....	Wiedemann, Geo., Brg. Co.	L M B-C 3

**LOUISIANA.**

New Orleans.....	American Brg. Co., Conti st., bet. Royal and Bourbon..	L B-C 6
" .....	Jackson Brewing Co., Clay, St. Peter, Jefferson and Decatur streets .....	L-C 9

For Key See Page 15.

**LOUISIANA**—CONTINUED.

<b>New Orleans</b> .....	Louisiana Branch, Jackson and Tchoupitoulas streets..
New Orleans Brewing Association. <b>L B-A 10</b>	Pelican Branch, North Peters and Clouet streets .....
"	Southern Branch, Villere and Toulouse streets .....
"	Weckerling Branch, Magazine and Delord streets .....
"	Security Brewing Co., Madison and Decatur strets.....
	<b>L-C 7</b>

**MARYLAND.**

<b>Baltimore</b> .....	Baltimore Breweries Co. (Bau- ernschmidt & Marr Brewing Co.) 1540 Ridgley street.....
"	<b>L-C 8</b>
"	Baltimore Brewing Co., 2211 West Pratt street.....
	<b>L M-D 2</b>
<b>City of Baltimore United Breweries. Limited.</b>	John L. Bauernschmidt, Jr., Mngr., 1707 W. Pratt st..
	<b>L B-D 1</b>
"	Wm. Miller, Manager, office corner 16th st. and Eastern avenue.....
	<b>L B-C 7</b>
"	Joseph H. Straus, Manager, Hartford Road, above North avenue.....
	<b>L B-C 5</b>
"	Bauernschmidt, Geo., Brg.Co., 1505 North Gay street ....
	<b>L B-C 3</b>
"	Beck, Aug., 46 Garrison Lane.
	<b>L-E 1</b>
"	Beck, Ernestine, East Fayette and Castle streets.....
	<b>W B-E 6</b>
"	Berger, Bernhard, 1422 Belvi- dere street.....
	<b>L B-D 8</b>
"	Brehm, George, Belair ave..
	<b>L B-C 8</b>
"	Dukehart Brewing Co., Calver- ton ave. and W. Baltimore street .....
	<b>A P B-D 8</b>
"	Eigenbrot Brewing Co., 10-40 Wilkens street.....
	<b>L B-C 6</b>
"	Germania Brewing Co., 848-856 Frederick avenue .....
	<b>L-D 2</b>
"	Guenther, Geo., cor. 3d and O'Donnell sts., Canton....
	<b>L B-C 6</b>
"	Hacker & Gebhardt.....
	<b>L-E 6</b>
"	Helldorfer's Sons, S., corner Clinton and Lancaster sts., extended.....
	<b>L B-D 2</b>

**MARYLAND—CONTINUED.**

Baltimore .....	Lion Brewing Co., 2135 Calverton avenue.....	L-D 6
" .....	National Brewing Co., P. O. box 893, corner Third and O'Donnell streets.....	L B-C 4
" .....	Oriental Brewing Co., cor. 3d and Lancaster streets....	L B-D 4
" .....	Pabst, Louis, 840 South Bond street.....	L-E 6
" .....	Sandkuhler, F., 111 N. Colington avenue .....	W B-E 5
" .....	Standard Brewing Co., 1766 North Gay street.....	L B-C 10
" .....	Von der Horst, J. H., Brewery, Belair avenue extended..	L M-C 9
" .....	Wehr-Hobelman-Gottlieb Brewing and Malting Co. (Globe Brewery), Hanover and Conway streets....	L M B-C 5
" .....	Wiessner, John F. & Sons Brg. Co., 1700 North Gay st....	L B-C 6
" .....	Wiessner, J. F. & Bro., Brg. Co., 206 Eastern avenue, extended.....	L-D 8
Cumberland.....	Cumberland Brewing Co., 397 North Centre street.....	L B-D 3
" .....	Ritter, Paul.....	L B-E 5
" .....	Zink, John N.....	B-E 5
Frederick .....	Kuhn, John.....	L B-E 5

**MASSACHUSETTS.**

Boston .....	Alley Brewing Co., succ. Alley, John R. & Sons, 123 Heath street, Roxbury.....	A P B-C 4
" .....	American Brg. Co., of Boston, 235 Heath street.....	L-C 1
" .....	Boston Beer Co., 249 West 2d street.....	A P M-C 4
" .....	Burkhardt Brg. Co., Parker and Station streets....	P L B-C 6
" .....	Franklin Brewing Co., 3175 Washington street.....	A L-D 4
" .....	Habich & Co., Norfolk Br'y, 171 Cedar street.....	A P L B-C 4

For Key See Page 15.

**MASSACHUSETTS**—CONTINUED.

Boston.....	Haffenreffer & Co., Bismarck street, Jamaica Plain.....	L B-C 5
".....	Hanley & Casey (Cook Brew- ery), 104 Ward street.....	A P-C 10
".....	Houghton, A. J. Co., Station and Hallock streets.....	L-C 2
".....	Jones, Frank, Br'g Co., Bay State Br'y, office 147 Con- gress street.....	A P M-C 8
".....	Kenney, James W., Terrace street.....	A-C 8
".....	King, Charles A.. 86 Long- wood avenue.....	L-C 7
".....	McCormick Br'y Co., 89 Conant st., office 95 Central st.A	P L B-C 6
".....	Pfaff, H. & J., Brewing Co., Pynchon st., office 16 Arch street.....	L M B-C 4
".....	Robinson Brewing Co., 25 Amory street.....	A P-C 6
".....	Roessle Br'y, 1250 Columbus avenue.....	L-C 4
".....	Rueter & Co., incorporated, corner Heath, Terrace and Parker streets.....	A P-B 9
".....	Smith, William & Sons Brg. Co., Marginal street (East Boston).....	L-C 8
".....	Smith, Wm. & Sons Br'g Co., 44 King street.....	A P B-D 1
".....	Souther, J. K. & Sons, Burton Brewery, Parker and Heath streets.....	A P M B-C 5
".....	Suffolk Brewing Co., 423-443 E. 8th street.....	A P L B-C 5
".....	Union Brewery, 16 Terrace street.....	L-C 10
Charlestown.....	Van Nostrand, A. G. (Bunker Hill Breweries), 40 Alford street.....	A P L B-C 4
Chicopee.....	Ritter, William .....	A P L B-E 1
Fall River.....	Enterprise Brewery Co., 50 Glascon street.....	A P-E 4
".....	Fall River Brewing Co .....	A L-E 4

**MASSACHUSETTS**—CONTINUED.

Fall River	Finegan & Fitzsimmons	A-E 5
Lawrence	Cold Spring Br'g Co.	L-E 4
Lowell	Consumers' Brewing Co.	L-C 10
North Adams	Moore & Murray	A L-E 6
Pittsfield	Berkshire Br'g Ass'n.	A P L M B-D 2
Springfield	Highland Brewery Co.	A P L-C 10
"	Springfield Brewing Co., cor. Fort and Water streets	L B-C 3
State Line	Losty, J. B.	L-E 6
Willimanset	Hampden Brewing Co.	A P-D 5
Worcester	Bowler Bros., ltd., Quinsigamond ave., Lafayette and Ellsworth sts.	A P L B-C 1

**MICHIGAN.**

Adrian	Fischer, Catherine	L M B-E 2
"	Kaiser, R. A.	L B-E 2
Alpena	Beck Br'g and Malt'g Co.	L M B-D 9
"	Pioneer Brewing Co.	L B-E 5
Ann Arbor	Ann Arbor Brewing Co., 11 Mill street	L B-D 8
"	Martin & Fischer	L-E 1
Bay City	Bay City Brewing Co.	L B-D 5
Big Rapids	Big Rapids Brewing Co.	L B-E 6
Cheboygan	Cheboygan Brewing and Malt- ing Co.	L B-D 10
Coldwater	Doll, Benedict	L B-E 4
Crawford's Quarry	Bittner, Paul	A L M-E 5
Delray	Exposition Brewing Co.	L-D 4
Detroit	Bloss, George, 1340 Gratiot ave.	L-E 1
"	Columbia Brewing Co., 227 Catherine street	L M-D 10
"	Detroit Brewing Co., Orleans and Adelaide streets	L M B-C 9
"	East Side Brewing Co., 34 Jay street	L B-D 9
"	Ekhardt & Becker Brewing Co., 475 Orleans street	L B-C 9
"	Elspass, Theo., 34th street and Aubin avenue	L-E 2
"	Exposition Brewing Co. (See Delray)	L-D 4
"	Germania Brewing Co., 294 Sherman street	L-E 3

**MICHIGAN—CONTINUED.**

Detroit	Goebel Brewing Co., ltd., office 351 Rivard street.....P L M B-C 5
"	Home Brewing Co., 142-148 Sherman street.....L M B-D 9
"	Honer, Emil, 758 Gratiot ave..L-E 3
"	Kaiser & Schmidt, 400 Wilkins street.....L B-D 6
"	Kling, Ph., Brewing Co., Jef- ferson avenue, east....L M B-C 9
"	Koch, J. Wm., 133 Sherman st.L-E 6
"	Koppitz-Melchers Brew'g Co., 1115-1135 Gratiot ave..P L B-C 10
"	Langston, Frederick, 242 River street .....A-E 6
"	Mutual Brewing Co., 251 El- liott street .....L B-D 10
"	Nagel, Ph., Brewing Co., 249 Mullett street.....L B-E2
"	Pfeiffer, Conrad, 912 Beaufait avenue.....L B-D 6
"	Phoenix Brewing Co., 230 Rus- sell street.....L B-D 9
"	Ruoff, A., Brewing Co., 335 Gratiot avenue.....L M-D 3
"	Scheu, John, 515 Hastings st..L-E 6
"	Schultz & Frey, 115 Chestnut street.....L-E 4
"	St. Louis Brewing Co., 490-500 Grand River avenue.....L B-D 8
"	Stroh, B., Brewing Co., 275 Elizabeth street.....L M B-C 2
"	Vienna Brewing Co., ltd., 74-78 Twelfth street.....A P L B-D 9
"	Voigt Brewing Co., ltd., 203 Grand River avenue.....L B-C 9
"	Wegener, Anthony, 393 Riop- pelle street.....W B-E 6
"	West Side Brewing Co., 412 Howard street.....L P B-C 10
"	Zoltowski, Thos., 733 Hastings street.....L-D 5
"	Zynda, John & Bro., Canfield and Rioppelle streets.....L-D 1
Elk Rapids	Grammel, Gottlieb.....L-E 6

**MICHIGAN—CONTINUED.**

Escanaba.....	Escanaba Brewing Co.....	L B-D 7
Flint.....	Flint Brewing Co.....	L B-E 1
".....	Golden, William.....	L-E 6
Frankenmuth.....	Geyer, John G.....	L M-E 3
Gagetown.....	Kastner, Christopher.....	L-E 6
Grand Rapids.....	Grand Rapids Brewing Co., cor. Bridge and Ionia sts..	L B-C 6
".....	Petersen & Willebrand, In- diana and West Bridge sts..	L-D 8
".....	Cooper, W. H.....	L-E 6
Hancock.....	Scheuerman, Ph., Brg. Co...	L B-D 8
Hillsdale.....	Haas, John.....	L-E 5
Holland.....	Schoenith, Geo .....	L B-E 4
Houghton.....	Haas, Adam, Brewing Co., cor. Sheldon and Dodge sts....	L B-D 7
Ionia.....	Haberstumpf, A.....	L M B-D 9
Iron Mountain.....	Coleman, Silas, trustee, suc. Upper Michigan Brg. Co..	L B-D 6
Jackson.....	Haehnle Brewing Co., 1913- 1917 Cooper street.....	L M-D 6
".....	Jackson Brewing and Malting Co.....	L M-D 9
Kalamazoo.....	Neumaier, Alfred G.....	L-E 4
".....	Schoenhirt, H. J., Jr., 122 N. Church st.....	L-E 6
Lake Linden.....	Bosch Brewing Co.....	L B-D 4
L'Anse.....	*Miswald, Martin & Bros..	L B-E 6
Lansing.....	Foerster, Adam.....	L B-E 4
Lapeer.....	Buerger, Anna M.....	L M B-E 2
Manchester.....	Adrion, Charles & Co....	L M B-E 3
Manistee.....	Manistee Brewing Co.....	L-D 9
Marquette.....	Upper Peninsula Brewing Co., West Washington st.....	L B-D 4
Marshall.....	Gramer, Jos.....	L B-E 3
Menominee.....	Leisen & Henes Brg. Co..	L M B-D 1
".....	Menominee River Brg. Co..	L B-D 4
Monroe.....	Roeder, Jacob.....	L-E 4
".....	Wahl, John.....	L B-D 8
Mount Clemens.....	Biewer, August.....	L B-E 2
".....	Mount Clemens Brg. Co..	L M B-D 9
Muskegon.....	Muskegon Brewing Co., 604 Michigan ave.....	L P M B-D 2
".....	Winter, Ferdinand & Son....	L-E 6

**MICHIGAN**—CONTINUED.

New Baltimore	Heuser, Joseph	L-E 6
Ontonagon	Miswald Bros.	L B-E 4
Owosso	Owosso Brewing Co.	L-E 6
Port Huron	Samberg, Charles, Brg. Co.	L-D 10
Saint Clair	Bierrer, John	L-E 6
"	Elpass, Conrad	L-E 6
"	Schlinkert, John	L-E 6
"	Schwaben, Joseph	L M B-E 6
Saginaw (E. S.)	National Brewing Co.	L B-D 6
" (E. S.)	Raquet, Jacob	L M B-D 8
" (W. S.)	Rosa, John T.	L M B-E 3
" (E. S.)	Saginaw Brewing Co.	L M B-E 1
" (W. S.)	Schemm, John G., 926 North Hamilton st.	L M B-D 5
Sebewaing	Sebewaing Brewing Co.	L M-E 2
Traverse City	Kratochvil, Frank W.	L-E 5
West Bay City	West Bay City Brewing Co.	L-E 3
"	Kolb Bros., 601 Fitzhugh st.	L B-D 6
West Branch	Schick, Anthony M.	L-E 6
Westphalia	Fritz & Cook	L-E 6
Wyandotte	Eureka Br'g and Ice Co.	L-E 4
"	Marx Bros.	L B-E 1
Ypsilanti	Forster, L. Z., Brewing Co., 414 Grove st.	L M B-D 8
"	Grob, Jacob	L-E 6

**MINNESOTA.**

Alexandria	Towgood, Walter R.	L-E 5
"	Wegener, Rudolph.	L M B-D 10
Appleton	Solomon Ginsberg	L M-E 6
Belle Plaine	Schmitt, Christian	L M-E 5
Blue Earth City	Fleckenstein, Paul	L M-E 5
Brainerd	Brainerd Brewing Co.	L-E 4
Brownsville	Fetzner, V. & J.	L M-E 3
Chaska	Liverman, Mrs. B.	L-E 5
Cold Springs	Oester & Hilt	L-E 4
Crookston	Rauch, Schnagl & Riedesel	L M B-E 2
Duluth	Fitger, A. & Co.	L B-D 3
East Grand Forks	Hoffmann, Nickolas	L M B-D 10
Evansville	Schwartz, Peter	L-E 6
Faribault	Fleckenstein, Ernst	L M B-E 2
"	Fleckenstein, G.	L M B-E 4
Fergus Falls	Bender, C. J.	L M B-E 5
Glencoe	Eickmann, Peter	L-E 4

**MINNESOTA—CONTINUED.**

Granger.....	Hasse, R. H.....	L M-E 6
Hartford.....	Minars, Albert. Jr.....	L M-E 6
Hastings.....	Busch & Son.....	L M-E 3
".....	Steffen, Belthazer.....	L-E 3
Henderson.....	Enes, Hans.....	L M-E 4
Hutchinson.....	Kleinmann & Bro.....	L M-E 4
Jordan.....	Heiland, Catherine.....	L M-E 3
".....	Schultz & Kaiser.....	L M-E 2
Lake City.....	Schmidt, John C. & Son.....	L-E 5
Le Sueur.....	Vollbrecht, Emil.....	L M-E 6
Litchfield.....	Leonhardt, Ehrhardt.....	L M-E 4
Little Falls.....	Jacob Kievel .....	L B-E 4
Long Prairie.....	Rohner, Gebhardt.....	L-E 6
Madelia.....	Brennes, P. A.....	L M-E 6
Mankato.....	Bierbauer, William, estate of	
".....		L M-D 10
".....	Peterson, Nicholas.....	L-E 6
Mantorville.....	Naegeli, Henry, Jr.....	L M-E 5
Mazeppa.....	Trauseh, Jos.....	L M-E 6
Melrose.....	Hemmisch, J. M.....	L M-E 4
Minneapolis.....	Birkhofer, C., Brewing Co.	L P B-D 3
".....	Gluek Brewing Co., 2000 Marshall street, Northeast.	L M B-C 9
".....	Liden, Andrew, 2210 Sverdrup street.....	L-E 6
".....	Massolt Bottling Co.....	W B-E 6
".....	Minneapolis Brewing Co., office, 44 Third street, South—Brewery No. 1, Marshall street and 13th ave.;	L M B-B 6
".....	Brewery No. 2, foot 4th st. and 22d ave.	
Minnesota City.....	Vill, Otto.....	L-E 4
Montgomery.....	Handsuch & Pexa.....	L M-E 3
".....	Perchal & Brazil.....	L-E 5
Moorhead.....	Erickson, John.....	L M B-E 4
New Munich.....	Pitzel, Mathias.....	L M B-E 5
New Prague.....	Kokes, Thomas.....	L-E 6
".....	Roemer & Peshek.....	L-E 3
New Ulm.....	Bender, Jacob.....	L M-E 6
".....	Hauenstein, John.....	L M-D 6
".....	Schell, Aug.....	L M B-D 5

**MINNESOTA—CONTINUED.**

New Ulm .....	Schmuker, Joseph.....	L M B-E 6
Northfield .....	Grafmueller, A.....	L M-E 4
Ortonville .....	Ortonville Brewing Co...L M B-E 3	
Owatonna .....	Charles Fuehrmann Brewing Co.....	L M B-D 9
Perham .....	Schroeder, Peter.....	L M B-E 2
Pine City .....	Buselmeier, Amalie.....	L M-E 6
Preston .....	Yager & Luhmann.....	L M-E 5
Red Wing .....	Red Wing Brewing Co., 1602 to 1636 West Main st..L M B-D 9	
" .....	Remmler, A., cor. Fifth and Bush streets.....	L M-D 10
Reed's Landing .....	Burkhardt, Gottlieb .....	L M-E 6
Rochester .....	Schuster Brewing Co., suc. to Schuster, Henry, Estate of, cor. Main and College sts .....	L M B-D 10
Rush City .....	Weid, Nicholas.....	L-E 5
Rushford .....	Pfeiffer, Jacob.....	L M-E 5
Saint Cloud .....	Zertler, F. W.....	L M-E 1
" .....	Udermann, Valentine.....	L-E 3
" .....	Preiss & Wimmer .....	L M-D 8
Saint Paul .....	Banholzer, Wm., 690 Stewart avenue.....	L-E 1
" .....	Brueggeman, Martin, s. s. Channel, betw. Edward and Walter streets.....	L-D 8
" .....	Drewry & Sons, Payne ave- nue, nr. Minnehaha st.A P M B-E 5	
" .....	Emmert, Fred., Brewing Co., 187 South Exchange street .....	L M B-D 10
" .....	Funk, M. Brewing Co., corner Colborne and Cascade sts... L-E 2	
" .....	Hamm, Theo., Brewing Co., succe.Hamm, Theodore, Min- nehaha, corner Greenbrier avenue .....	L M B-C 1
" .....	North Star Brewing Co., cor. Commercial street and Hud- son avenue.....	L M B-D 9
" .....	Stahlmann, Ch., Brewing Co., 882 West Seventh st....L M B-D 3	
" .....	Yoerg, Anthony, corner Ohio and Ethel streets.....	L M B-D 10

**MINNESOTA—CONTINUED.**

Saint Peter.....	Engesser Brewing Co....	L M B-D 8
Sauk Rapids.....	Sauk Rapids Brewing Co...L M-E 6	
Shakopee.....	Heller, H. H .....	L M-E 4
" .....	Nyssen, Hubert .....	L M B-E 5
Silver Lake.....	Chalapsky, W.....	L-E 6
Sleepy Eye.....	Stegen, Anton .....	L M-E 3
Stillwater.....	Aiple, Frank J. R., 734 South Main street.....	L M B-D10
" .....	Wolf, Jos., Company, 402 S. Main street,.....	L M B-D 8
Tower.....	Iron Range Brewery .....	L B-E 2
Wabasha.....	Grass, Christ.....	L M-E 6
Wadena.....	Wadena Brewing Co.....	L-E 3
Waseca.....	Wenner, Hermann .....	L-E 6
Weseley.....	Pavok, Joseph.....	L-E 5
Willmar.....	Wm. Gilger .....	L-E 6
Winona.....	Bub, Peter.....	L M-D 8
" .....	Schellhas, Wm.....	L M B-D 5

**MISSOURI.**

Appleton.....	Ludwig, Caspar.....	L M-E 6
Cape Girardeau.....	Cape Brewery and Ice Co....	L-D 10
Hannibal.....	Herl & Rendlen Brewing Co., 113 Lindell avenue ...	L M B-D 8
" .....	Reidel, Elizabeth.....	L-D 8
Hermann.....	Kropp, Hugo.....	L M B-E 1
Jefferson City.....	Capitol Brewing Co.....	L B-D 9
Joplin.....	Joplin Brewing Co.....	L B-D 10
Kansas City.....	Heim, Ferd., Brewing Co., cor. Agnes and Guinotte aves.....	L M B-C 1
" .....	Iler, J. D. (Rochester Br'y), Washington st., betw. 20th and 21st sts., L. F. Rieger, assignee .....	L B-C 7
" .....	Muehlebach, Geo., cor. 18th and Main sts.....	L M B-D 4
Saint Charles.....	Moerschel, Jacob, cor. 3d and Water sts.....	L M B-D 9
" .....	Schibi, Charles.....	L-E 2
Saint Genevieve.....	St. Genevieve Brewing and Lighting Association.....	L-E 2

**MISSOURI**—CONTINUED.

Saint Joseph.....	Goetz, M. K., Brewing Co., corner 6th and Albemarle sts.....	L M B-D 4
" .....	Jester, John.....	L B-E 3
St. Joseph Brew- ing Co., suc. to {	Nunning, August, Brg. Co...L M-D 3 { St. Joseph Brewing Co...L M B-D 3	
Saint Louis .....	American Brewing Co., 2825 South Broadway.....	L M B-C 1
" .....	American Weiss Beer Brewery, 1906 North Broadway....	W B-E 5
" .....	Anheuser-Busch Brg. Ass'n, 9th and Pestallozi sts..	L M B-A 3
" .....	Anthony & Kuhn Brewery. Branch St. Louis Brg. Ass'n, 11th, between Victor and Sidney sts.....	L M B-C 6
" .....	Berliner Imp. Weiss Beer Co., 606-610 South 2d st.....	W B-E 5
" .....	Bremen Brewery. Branch St. Louis Brewing Association, 3905 North Broadway.....	L-D 2
" .....	Brinekwirth-Nolker Brewery. Branch St. Louis Brg. As- sociation, 1714 Cass ave...L M-C 2	
" .....	Cherokee Brewery. Branch St. Louis Brewing Associa- tion, 2726 Cherokee st.....	L-D 2
" .....	Columbia Brewing Co., 20th and Madison sts.....	L M B-C 3
" .....	Excelsior Brewery Branch, St Louis Brewing Association, 5 South 17th street....	L M B-C 6
" .....	Green Tree Brewery, Branch St. Louis Brewing Ass'n, Sidney and 9th street..	L M B-C 2
" .....	Grone, H., Brewery, Branch St. Louis Brewing Ass'n, 2219 Clark avenue .....	L M-C 6
" .....	Home Brewing Co., Miami st. and Salena ave.....	L B-C 6
" .....	Hyde Park Brewery, Branch St. Louis Brewing Ass'n, Florissant avenue and Salis- bury street.....	L M-C 2

**MISSOURI—CONTINUED.**

Saint Louis.....	Klausmann Brewery, Branch St. Louis Brewing Ass'n, 8639 South Broadway..	L M B-C 5
" .....	Lemp, Wm. J., Brewing Co., Second Carondelet ave. and Cherokee street.....	L M B-A 8
" .....	National Brewery Co., 18th and Gratiot streets....	L B M-C 3
" .....	Obert, L., Lynch and 12th sts.	L-C 7
" .....	Phoenix Brewery, Branch St. Louis Brewing Ass'n, 1724 Lafayette avenue.....	L B-C 8
" .....	Saint Louis Weiss Beer Brew- ing Co., 3113 N. 11th st...W B-E 3	
" .....	Schroeder's Berliner Weiss Beer Co., 1013 Paul st....W B-E 4	
" .....	Stettner & Thoma, 1535-1539 South Broadway .....	W B-E 2
" .....	Stifel's, Chas. G., Brewery, Branch St. Louis Brewing Ass'n, 1911 N. 14th street.	L M-C 3
" .....	Wainwright Brewery, Branch St. Louis Brewing Ass'n, Papin and 11th streets..	L M-B 10
" .....	Wittemann-Rost Brew'g Co., Lemp ave.and Arsenal st.W B-E 2	
Sedalia.....	Weigand, Henry.....	L B-E 4
Washington.....	Bush, John B., Br'g Co..	L M B-D 9
Warrensburg.....	Gross, Elizabeth.....	L B-E 6
Weston.....	Walruff, J., Receiver, Weston Brewing Co.....	L B-D 8

**MONTANA.**

Anaconda.....	Faul, Joseph.....	L B-E 2
Bozeman.....	Hellinger & Hansen.....	L B-E 4
" .....	Lehrkind, Julius.....	L M-E 6
Butte City.....	Centennial Brewing Co.	L M B-C 10
" .....	Muntzer, Henry.....	L B-E 3
" .....	Nissler, Ch. (Brewery, Silver Bow) .....	L M B-D 10
Deer Lodge City.....	Van Gundy, J. E.....	L M B-E 5
Dillon.....	Burfeind Bros.....	L M B-E 5
Great Falls.....	American Brewing and Malt- ing Co.....	L B-E 2

**MONTANA—CONTINUED.**

Great Falls.....	Montana Brewing Co.....	L B-D 4
".....	Volk Bros.....	L-E 3
Helena.....	Kessler, Nickolas.....	L M B-D 4
".....	Miller & Co.....	D M B-D 9
Kalispel.....	Kalispel Brewing and Malt- ing Co.....	L M B-E 3
Missoula.....	*Lang & Martin .....	L-E 5
Phillipsburgh.....	Kroger, Chas.....	L M B-E 5
Townsend.....	Dixon, Thomas.....	L M B-E 6
Virginia City.....	Gilbert, Henry S., cor. Coover and Hamilton streets..	L M B-E 6

**NEBRASKA.**

Atkinson.....	Wosterchill, Frank.....	L-E 5
Bloomington.....	Arnold, Ernst.....	L M B-E 5
Columbus.....	Kersenbrock, J. H.....	L M B-E 1
Crete.....	Muchow, William.....	L M B-E 5
Falls City.....	Brackhahn Bros.....	L M B-E 5
".....	Gehling, Crezentia.....	L M B-E 3
Fremont.....	Fremont Brewing Co....	L M B-D 5
Grand Island.....	Lange Bros. Br'g Co.....	L M B-E 1
Nebraska City.....	Mattes Brewing Co.....	L B-D 10
".....	*Roos, Andreas.....	L-E 6
Niobrara.....	Foerster, Adam.....	L M-E 6
Omaha.....	Engler, Ephraim, 1119 N 18th street.....	W B-E 6
".....	Krug, Fred., Brewing Co., 1007 Jackson street.....	L M B-C 6
".....	Metz Bros. Brewing Co., cor. 6th and Leavenworth sts...	L-C 9
".....	Omaha Brewing Association, Sherman avenue.....	L B-C 6
".....	Weymuller & Co., 1714 Burt street.....	L A P B-E 5
Saint Helena.....	Nielke, Anton & Co.....	L-E 5
Schuylerville.....	Platz, F. W.....	L M-E 4
South Omaha.....	*Fallon, John .....	L-E 6
".....	South Omaha Br'g Co., cor. Y and 30th streets .....	L-C 10
Wahoo.....	Caley, Wm. C .....	L M B-E 6
West Point.....	West Point Br'g Ass'n.....	L-E 1
Wilber.....	Kobes, F. J. & Co.....	L-E 5

**NEVADA.**

Carson City.....	Carson Brewing Co.....	L-E 4
Eureka.....	Lautenschlager, Charles.....	L B-E 5

**NEVADA—CONTINUED.**

Gold Hill.....	Schweis, Carrie C.....	L-E 6
Pioche.....	Jochimson, John.....	L-E 6
Reno.....	Becker Brewing Co.....	L M B-E 6
Tuscarora.....	Smith, A. H.....	L-E 6
Virginia City.....	Reick, John & Virginia.....	L-E 6
".....	Schweiss, Richard.....	L-E 5

**NEW HAMPSHIRE.**

Manchester.....	Jones, True W., Brewing Co., Hancock st.....	A P B-C 10
Portsmouth.....	Belfast Brewing Co., Maple- wood ave.....	A B-E 2
".....	Eldredge Brewing Co., 26 Bow street .....	A P L-C 3
".....	Jones, Frank, Brewing Co. (Limited), 84 Market st. A P M-A 9	
".....	Portsmouth Brewing Co., 64 Bow st.....	A P B-C 10
Walpole.....	Mountain Spring Brewing Co. (see also Bellows Falls, Vt.).....	A P-D 2

**NEW JERSEY.**

Camden.....	Schwoeri, Gustav.....	L-E 6
".....	Sebnurr, H.....	L-E 6
".....	Morgenthaler, Jacob.....	L-E 6
Cramer's Hill.....	Andrews, Henry D.....	L-E 6
Egg Harbor City.....	Atz, Lena.....	L-E 2
".....	Kopf, Joseph.....	L-E 6
Elizabeth.....	Breidt, Peter, City Br'g Co., 600-616 Pearl street.....	L B-D 1
".....	Rising Sun Brewing Co., cor. 7th and Marshall sts. A P L B-C 6	
Gloucester City.....	Weidman, Moritz.....	L-E 5
".....	Gloucester Brewing Co.....	L-E 6
".....	Menge Bros.....	L P B-E 6
Guttenberg.....	Meierdieck, J.H., Bergerwood Road .....	L-D 4
Harrison (East Newark) ..	Fritz & Weidemann, Harrison avenue and Seventh street..	L-E 3
" .. "	Hauck, Peter & Co., Branch United States Brewing Co., 500-516 Harrison avenue..	L B-C 2
Hoboken.....	Axtmann, John, Ferry st..	W B-E 6

For Key See Page 15.

**NEW JERSEY**—CONTINUED.

Jersey City.....	Greenville Brewing Co., foot Girard avenue.....	L B-D 2
" .....	Freund, H. C., 785 Newark avenue.....	W B-E 6
" .....	Lembeck & Betz (Eagle Br'g Co.), 182 Ninth st.. A P L M B-B 7	
" .....	Simon, Henry P., 230 Baldwin avenue .....	W B-E 6
Newark.....	Ballantine & Co., Freeman, between Bowery and Ferry streets .....	A P L M-A 5
" .....	Ballantine, P. & Sons, Front and Fulton streets .....	
" .....	Berkenhauer & Bauman, 194 South Orange street .....	L B-E 1
" .....	Eagle Brewing Co., 38 Hayes street.....	L-D 10
" .....	Essex County Brewing Co., 169- 175 7th ave., cor. Clifton ave. L-C 10	
" .....	Fehleisen & Co., 315 Orange st. L-E 6	
" .....	Feigenspan, Christian, 2-50 Freeman street.....	A P L B-B 2
" .....	Fergs', John, Brewery, 169 William street.....	L B-D 8
" .....	Hensler, Jos., Brewing Co., 73 Hamburg place.....	L-C 3
" .....	Hill's Union Brewery Co., (limited), 333-353 Spring- field avenue.....	L B-C 5
" .....	Home Brewing Co., corner Orange, Hudson and Heker streets .....	A P L-C 5
" .....	Kastner, Franz J., Brewery (owned by the Emerald and Phoenix Brewing Co.), 3-27 Lewis street.....	L-C 4
" .....	Krueger, Gottfried, Brewery Co., (owned by U. S. Br'g Co.), 75-101 Belmont ave.. L B-B 5	
" .....	Lyon, D. M. & Sons, Brewing Co., 97 South Canal street. A P-C 8	
" .....	Shaffney & Farley, 23 Polk street.....	W B-E 5

**NEW JERSEY—CONTINUED.**

Newark.....	Trefz, C., Brewery (owned by U. S. Brewing Co.), 28 Bea- con street.....	L-C 4
" .....	Wiedenmayer, Geo. W., (in- corporated), 588 Market st. .....	A L P B D-1
North Bergen.....	¶ Roland Brewing Co.....	L-E 6
North Plainfield.....	Linnett, W. M .....	L-E 6
Paterson .....	Hinchliffe Brewing and Malt- ing Co , Governor and Ann streets.....	A P L M B-C 4
" .....	Braun Bros. Brewing Co., Marshall and Braun sts.L B-C 8	
The Paterson Consolidated Brewing Co.....	Graham Brewing Co., Ham- burg ave. and Matlockst...A P-D 1	
A P L B-B 1	Graham Br'g Co., The Jas. A., Straight and Cedar sts....A L C-10	
	Katz Bros. Burton Br'g Co , Straight and Governor sts. .....	A P L-C 2
	Sprattler & Mennel Br'g Co., Marshall & Van Winkel sts..L-C 8	
" .....	¶ Stockton, Diehm, Jos. A. & Co , 424 Main street .....	L-E 6
Trenton.....	Hill, Franz.....	L-E 6
" .....	Trenton Brewing Co.....	L B-C 4
Union, Town of.....	Bermes, Daniel, Boulevard and (Weehawken, Union Hill) Columbia street.....	L-C 4
" .....	Peter, Wm , Br'g Co., Hudson ave. and Weehawken st..L B-C 3	
" .....	Union Brewing Co , Jefferson and Bloom streets.....	A L-C 10
" .....	Wahlers, Diedrich.....	L-E 6

**NEW MEXICO.**

Albuquerque.....	Southwestern Brewery.....	L B-E 1
Las Vegas.....	Las Vegas Brewing Co.....	L B-E 4
Mogollon.....	¶ Croenne, John & Son.....	L B-E 6
Santa Fe.....	Santa Fe Brewing Co.....	L B-E 4
Socorro.....	Illinois Brewing Co.....	L B-E 6

**NEW YORK.**

Addison .....	Addison Brewing Co. ....	L-E 5
---------------	--------------------------	-------

For Key See Page 15.

**NEW YORK—CONTINUED.**

Albany.....	Albany Brewing Co., 60 South Ferry st.....	L A P M-C 2
".....	Amsdell, Geo. I., Jay, Dove and Lancaster streets..	A P M-C 4
".....	Beverwyck Brewing Co., 30-32 North Ferry street.....	L-C 5
".....	Capital Brewing Co., 900-910 Broadway .....	A P-D 5
".....	Dobler Br'g Co., Amsdell & Hawley, proprietors, Myrtle ave., Swan and Elm sts..	L M-C 6
".....	Hedrick Brewing Co., 422 Central avenue.....	L-D 10
".....	Hinckel Brewing Co., Swan st., Myrtle and Park aves.	L B-C 5
".....	Kirchner, J., Estate, 8 Sherman street.....	L B-E 2
".....	McQuade, Anthony, 137 Canal street .....	A-E 6
".....	Quinn & Nolan Ale Brewing Co., 26 N. Ferry street....	A P-C 6
".....	Story Geo. F., Broadway and Fourth avenue .....	A P M-D 10
".....	Taylor Brewing and Malting Co., 133 Broadway....	A M-C 8
".....	Weber, George, 42-48 Third avenue.....	W B-E 6
Amsterdam.....	Bowler, Harry F.....	A P-D 3
Attica.....	Briem, Charles.....	L B-E 3
Auburn.....	Auburn Brewing Co., suc.Sutcliffe Brewing Co., 117 Clark.....	A L-D 6
".....	Burtis, E. C .....	A L B-E 4
".....	Fanning, G S., 10 Garden street .....	A P M-E 2
".....	Koenig, C. A.....	L-D 4
".....	Widner, William.....	L-E 5
Binghamton.....	Columbia Brewing Co., 19 to 31 Collier street.....	A P-D 6
".....	Ehresman, J. & Co.....	A P-D 5
".....	Laurer, Joseph, Brewing Co., Laurel avenue .....	L B-D 3
Brooklyn.....	Budweiser Brewing Co. (limited), 1042 Dean st.	A L P M B-B 6

**NEW YORK—CONTINUED.**

- Brooklyn..... Burger Brewing Co. (limited),  
       68-84 Meserole st., E. D....L-C 6  
       "..... Claus-Lipsius Brewing Co.,  
           493 Bushwick avenue...A P L-C 1  
       "..... Congress Brewing Co. (lim-  
           ited), 197 Humboldt st....L B-C 6  
       "..... Danenberg & Coles (Boulevard  
           Garden Brewery), 35 Bremen  
           street .....L-C 6  
       "..... Deventhal & Schalk, 217-219  
           Twenty-first street....W B-E 6  
       "..... Eastern Brewing Co., Bush-  
           wick avenue and Meserole  
           street, E. D ..... A L P B-C 6  
       "..... Eppig, Jos., Grove street and  
           Central avenue .....L-C 4  
       "..... Eppig, Leonard, estate of, 22  
           to 24 George street, E. D....L-C 4  
       "..... Fallert, Joseph, Brewing Co.  
           (limited), 52 to 66 Meserole  
           street, E. D .....L B-C 4  
       "..... Frank, W. H., Brewing Co.  
           (see also Evergreen, N. Y....L-C 6  
       "..... Freese, Chas., estate of, 238 to  
           252 Scholes street, E. D....L C 10  
       "..... Harris, Albert H., 241 Adams  
           street .....L B-E 6  
       "..... Howard & Fuller Brewing Co.,  
           Bridge and Plymouth sts. A P-C 10  
       "..... Hower, Frederick, Brewing  
           Co. (receivers), 269 Pulaski  
           street .....L B-C 5  
       "..... Huber, Otto, Brewery, 1 and 3  
           Bushwick place .....L-C 1  
       "..... Ibert, Frank, Brewing Co.,  
           Linden street and Evergreen  
           avenue .....L-C 5  
       "..... Immens Son, Henry, 46 Com-  
           mercial street .....W B-E 6  
       "..... India Wharf Brewing Co.,  
           32-60 Hamilton ave...A P L B-B 7  
       "..... Kissel, John & Son, 169 Har-  
           rison avenue .....L B-D 7

**NEW YORK—CONTINUED.**

Brooklyn.....	Leavy & Britton Brewing Co., Jay and Front streets....A P-C 8
".....	Liebmann's Sons, S., Brew- ing Co., Forest and Bremen streets, E. D.....A L P M B-B 4
".....	Long Island Brewing Co., 86 Third avenue.....A P L B-B 9
".....	Malcom Br'g Co., Skillman st. and Flushing ave....A P L B-C 4
".....	Mannell, Anton, 174 North Ninth street.....W B-E 6
".....	Meltzer Bros., 185 Snydam street.....L-C 10
".....	Muench, Ferd., Brewery, 277 to 279 Vernon avenue.....L-C 6
".....	New York and Brooklyn Br'g Co., 48-60 Scholes street...A P-C 7
".....	North American Brewing Co., The, G. & C. Doerschuck, cor. Hamburg street and Greene avenue.....L B-C 8
".....	Obermeyer & Liebmamn, 71 Bremen street, E. D.....L M-C 4
".....	Ochs, Ernest (incorporated), 193 Brunswick avenue, cor. Scholes street, E. D.....L-C 7
".....	Piel Bros., Liberty and Shef- field streets.....L B-C 9
".....	Scharmann, H. B. & Sons, 355 to 371 Pulaski street.....L-C 3
".....	Schleicher, Robt., 179 Cook street.....W B-E 6
".....	Seitz's Son, N., 256-282 Maujer street.....L B-C 3
".....	Streeter & Denison, 84 North Second street.....A P-C 9
".....	Stehlin & Breitkopf, 1632 Bushwick avenue.....L-E 6
".....	Ulmer, Wm., 31 Belvidere st..L-B 10
".....	Weidmann, Paul, Brewing Co., North First and Berry sts...L-C 6
".....	Weltz & Zerweck, Myrtle ave., corner Wykoff ave., E. D...L-C 4
".....	Witte, Fred. W., 96 to 102 Luqueer street.....W B-E 5

**NEW YORK—CONTINUED.**

Buffalo.....	Beck Brewing Co., Magnus, 467 North Division st..	L M B-C 5
" .....	Berliner White Beer Brewing Co., 118 Puerner avenue..	W B-E 4
" .....	Broadway Brewing & Malting Co., 815 Broadway.....	L-C 9
" .....	Buffalo Co-operative Brewing Co., 160 High street.....	L B-C 6
" .....	Clinton Co-operative Brewing Co., 10-24 West Bennett st..	L-D 2
" .....	East Buffalo Brewing Co., 300 Emslie street.....	L-C 8
" .....	Gambrinus Brewing Co., 648 Broadway.....	L B-D 1
" .....	German-American Brew'g Co., 11 High street.....	L B-C 9
" .....	Germania Brewery, 1615-1619 Broadway.....	L B-C 10
" .....	International Brewing Co., 1088 Niagara street...	L M B-C 8
" .....	Iroquois Brewing Co., 95 Roos street.....	L M B-C 6
" .....	Kaltenbach Brewing Co., Clin- ton and Pratt streets.....	L-D 1
" .....	Lake View Br'g Co., cor. Lake View and Porter aves....	L M-C 7
" .....	Lang, Gerhard, cor. Best and Jefferson streets.....	L M B-B 6
" .....	Lion Brewery, 993-1041 Jeffer- son street.....	L M B-C 8
" .....	Moffat, Henry C., Mohawk and Morgan streets....	A P M-D 9
" .....	Schusler, Jno., Brewing Co., 127-161 Emslie street...L	M B-C 6
" .....	Star Brewery, cor. Spring and Cherry streets.....	L M B-D 2
" .....	Weyand, Ch., Brewing Co., 785-795 Main street.....	L B-C 8
" .....	Ziegele Brewing Co., Washing- ton and Virginia streets..L	B-C 7
Canaan.....	Losty, J. B.....	L-E 6
Canajoharie.....	Bierbauer, Louis.....	L-E 5
Canandaigua. ....	McKechnie Br'g Co..A	P L M B-C 10

**NEW YORK—CONTINUED.**

Cape Vincent.....	Aubertine, Theo.....	A L B-E 5
Clifton (Stapleton, S. I.)	Kaltenmeier, Joseph.....	L-E 6
Cohoes.....	Penrose & McEniry.....	A P-D 1
College Point (L. I.)	Mutual Brewing Co.....	A P L-C 8
Constableville.....	Ament, Conrad.....	L-E 5
Corning.....	Haischer, Fred.....	L M B-E 6
Dansville.....	Dansville Brewing Co .....	L B-E 2
Dobb's Ferry.....	Anchor Brewing Co.....	L B-C 5
Dunkirk.....	Dotterweich, Andrew, corner Dove and 6th streets....	L M-D 10
".....	Fink, Henry, Jr.....	L B-E 6
".....	Koch, Fred.....	L B-D 10
Ellenville.....	Kuhlmann, Catherine....	L M B-E 1
Elmira.....	Briggs, T. & Co.....	A P M-D 1
".....	Elmira Brewing Co.....	L B-E 1
".....	Mander, Gertrude.....	L-E 1
Evergreen (Queen's Co.L.I.)	Frank, Wm. H., Brewing Co. Cypress ave., Willow and Greene sts. (See also Brook- lyn, N. Y.).....	L-C 6
".....	Grauer, Jno. Geo., Ridgewood Park Brewery, cor. Cypress avenue and Willow street.	L B-C 7
".....	Leibinger & Oehm Brewing Co., Wykoff & Tanfield sts..	L-C 8
Fort Edward.....	Fort Edward Br'g Co....	A P M-D 3
Fort Hamilton(King's Co.)	31st Ward, Brooklyn. (See New Utrecht.	
".....	King's Co. Brewing Co., Third ave. and Ninety-sixth st...	L-D 10
Fort Plain.....	Beck, John.....	L B-E 5
Geddes (Syracuse).....	Rock Spring Brewing Co.....	L-E 5
Geneva.....	Thwaites, James.....	L-E 6
Glens Falls.....	Glens Falls Ale Co.....	A P-D 8
Haverstraw.....	*Thomas Finnegan .....	L-E 6
Hicksville (L. I.)	Becker, Wm. C.....	A L B-E 6
Hornellsville.....	Eydt, Louis .....	L-E 5
Hoosick Falls.....	Hoosick Falls Brewing Co.	L A B-E 2
Hudson.....	Evans, C. H. & Sons ...	A P M B-C 5
".....	Granger & Gregg Br'g Co...A P-C 6	
Ilion.....	Mohawk Valley Br'g Co., by receiver, suc. to Mohawk Valley Brewing Co.....	A-E 2
".....	Barmann, Peter, Clinton ave..	L-D 9

**NEW YORK—CONTINUED.**

Kingston (Borden).....	Hauck, Geo., Brewing Co., 54 McEntree street.....	L B-D 5
" .....	*Hasselman & Spinner Brew- ing Co.....	L-E 6
" .....	Hoffmann, Jacob, Brewing Co., see Jersey City.....	A P-D 8
" .....	Cummings, James,.....	A P-E 5
Lancaster.....	Hilbert, Sylvester.....	L M B-E 6
" .....	Lancaster Brewery.....	L M B-D 7
" .....	Soeman, Peter J.....	L M-E 1
Lansingburgh.....	Bolton's Sons, Samuel...A P M-C 5	
Lindenhurst.....	Feller, John .....	A M-E 4
Lockport.....	Hawkes, John.....	A M-E 3
" .....	Union Brewing Co....	L M B-E 2
" .....	Niagara Ale Brewing Co.....	A-E 1
Mechanicsville.....	Werner Br'g Co., Henry Dorr, Receiver, suc. to Werner Brewing Co.....	A-D 6
Medina.....	Remde, William.....	A-E 2
Metropolitan.....	*Mariano Brewery.....	L B-D 4
Mount Morris.....	De Crizinus, Louis.....	L-E 5
Newburgh.....	Thornton, Howard, Receiver for Beveridge Brewing Co. (New York city office, 120 Warren street).....	A P-D 7
" .....	Leicht, Chas. K.....	A L-D 6
Newtown.....	Reimers, John, Myrtle avenue and Jay street.....	L-E 6
New Utrecht(King's Co.)	King's County Brewing Co., 3d ave., near 96th st.....	L-D 10
New York City.....	Ahles, Jacob, Brewing Co., 149 East 54th street.....	L-C 10
" .....	American Brewing Co., 168th street and 3d avenue...A P L-C 5	
" .....	Bavarian Star Brewing Co., 240 West 18th street.....	L B-B 7
" .....	Beadleston & Woerz (corpora- tion), 291 W.10th st.A P L M B-A 9	
" .....	Bernheimer & Schmidt (Lion Brewery), Columbus avenue and 108th street.....	L-A 6
" .....	Clausen H. & Son Brewing Co. (New York Breweries Co.), 309 E. 47th st.A P L M B-B 4	

For Key See Page 15.

**NEW YORK—CONTINUED.**

- New York City.....Clausen & Price Brewing Co.,  
       59th street and 11th ave..A P-C 2  
       ".....Consumers' Br'g Co., of New  
           York, Ltd., Avenue A, cor.  
           55th street.....L-B 3  
       ".....Conville, Thomas, Br'g Co.,  
           328-338 E. 46th street...A P L-C 6  
       ".....Doeiger, Peter, 417 East 55th  
           street.....L-A 9  
       ".....Doeiger's Sons, Jos., 234 East  
           55th street .....L-C 6  
       ".....Ebling, Ph. & Wm., Br'g Co.,  
           156th st. and St. Ann's ave.  
           (Morrisania) .....A P L M B-C 5  
       ".....Ehret, George, 235 E. 92d st.,  
           between 2d and 3d ave .....L-A 5  
       ".....Eichler, John, Br'g Co., 3582  
           3d ave. and 169th st.....L-C 1  
       ".....Elias, Henry, Brewing Co., 403  
           East 54th street .....L-C 1  
       ".....Esselborn's Sons, George, 613  
           West 47th street.....L W B-E 5  
       ".....Everard, James, 12 E.  
           133d street.....A P L-A 9  
       ".....Everard, James, 3 East  
           134th street.....A P L-A 9  
       ".....Evers H., 49 Monroe st....W B-E 5  
       ".....Ferris' Son, Henry, 249 Tenth  
           avenue.....A P-C 10  
       ".....Finck, A. & Son, 324 West 39th  
           street .....L-C 6  
       ".....Flanagan, Nay & Co. (New  
           York Breweries Co.), 262  
           Tenth avenue .....A P M-B 9  
       ".....Groh, M. Sons, 242 W. 28th st.L-C 4  
       ".....Haffen, J. & M., 632-644 East  
           152d street... .....L-C 6  
       ".....Hawkins' Sons, C. P. Brewing  
           Co., 345 W. 41st street.....A-D 6  
       ".....Hoffmann, Jacob, Brewing  
           Co., 204-218 E. 55th street...L-B 9  
       ".....Howard & Childs, 518-522 W.  
           39th street.....A P L-C 2  
       ".....Hupfel, J. Chr. G., Brewing  
           Co. 229 East 38th street.....L-C 5

LOUIS H. BUHRMAN,  
Vice Pres. and Manager.

# Cincinnati Cooperage Company

CINCINNATI, OHIO, U. S. A.



Daily Capacity, 7,000 Packages.

Eight Mills in Timber Sections.

1,400 Employed. Six decorative fleuron symbols, centered below the employment figure.

FACTORIES AND OFFICE:

CINCINNATI, O

Correspondents Cordially Invited.

(OVER)



LOUIS H. BUHRMAN, Vice-President and Manager.

# CINCINNATI COOPERAGE COMPANY...

CINCINNATI, OHIO, U. S. A.

## OUR SPECIALTY:

Lager Beer,

EIGHTHS,

SIXTHS,

QUARTERS,

HALFS, and

BARRELS.

---

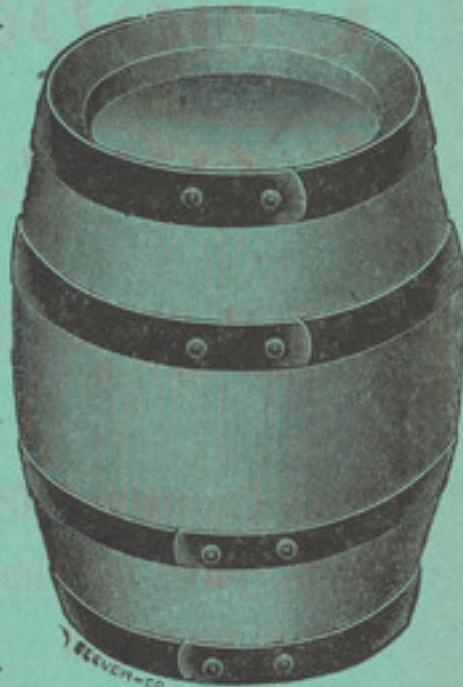
ALE,

QUARTERS,

HALFS,

BARRELS, and

HOGSHEADS.



Our Advanced Process of Manufacture Save Brewers  
Fully 30 Per Cent. over Others in Satisfaction and Wear.

---

HIGHEST GRADE OF WORK MADE.



(OVER)

**NEW YORK—CONTINUED.**

- New York City ..... Hupfel's Son, A. (United States Brewing Co.), 161st st. and St. Ann's ave..... L B-C 3  
 " ..... Jones Co., David, 325 E. 44th street ..... A M-D 3  
 " ..... Kipps Bay Brewery and Malt-ing Co., 648 First avenue... L-D 4  
 " ..... Koch, Andrew, 455 First avenue..... W B-E 5  
 " ..... Koehler, H. & Co., First ave., 29th and 30th sts.... A P L B-C 1  
 " ..... Kress, John, Brewing Co., 207 East 54th street ..... L B-C 4  
 " ..... Loewer's V. Gambrinus Brew-ery Co., 521 to 533 West 41st street ..... L B-C 3  
 " ..... Lyman, T. C. Co., 414-430 West 38th street ..... A P-C 6  
 " ..... Mayer, David, Brewing Co., 168th st. and 3d ave..... A L-C 4  
 " ..... Miles, Wm. A. & Co., 57 Chrystie street..... A B-C 8  
 " ..... Moore, Michael, 225 East 21st street ..... W B-E 5  
 " ..... Oppermann, Frederick, Jr., estate of, 330 East 45th st... L-C 3  
 " ..... O'Reilly, Skelly & Fogarty Co., 409 West 14th st.. A P L M-C 9  
 " ..... Otto, H. M., 83 East 4th st. W B-E 6  
 " ..... Ringler, Geo. & Co., 92d st., 2d and 3d avenues..... L-B 8  
 " ..... Rottman, John F. & Sons, 549 West 46th street ..... A P-D 3  
 " ..... Ruppert, Jacob, 1639 Third avenue, between 90th and 92d streets..... L-A 9  
 " ..... Russell & Reis, 61 to 71 Green-wich avenue..... A P M-C 10  
 " ..... Schaefer, F. & M. Brewing Co., 114 East 51st street.. L B-B 4  
 " ..... Schaefer, Phillip & Son, 530-540 W. 57th street ..... L-C 8  
 " ..... Schmidt & Schwanenfluegel, 57th st. and East River.... L-C 5

For Key See Page 15.

**NEW YORK—CONTINUED.**

New York City .....	Schufele, John, 719 East 11th street.....	W B-E 5
" .....	Spoehrer H., 472 2d ave....	W B-E 5
" .....	Springmeyer, E., 522 East 119th street.....	W B-E 6
" .....	Stein, Conrad, 514-528 West 57th street.....	L M-C 4
" .....	Stevenson, David, Br'g Co., 529 Tenth avenue, cor. 39th street.....	A P L M-B 3
" .....	Wallace, James & Son, 390-400 Cherry street ... ....	A P L B-C 4
" .....	Werner, A. G., 709 East 164th street.....	W B-E 6
" .....	Yuengling, D. G., Jr., Br'g Co., 10th avenue and 128th street.....	A P L B-B 7
" .....	Zeltner, Henry, Brewing Co., 3d ave. and 170th st.....	L B-C 6
Niagara Falls.....	Niagara Falls Br'g Co...L M B-C 10	
Norwich.....	Scott, Thos. D.....	A L-E 2
Obernburgh.....	Ferle & Co.....	L-E 5
Ogdensburg.....	Arnold & Co., 50 Main st..A P B-D 9	
Olean.....	Dotterweich Brewing Co.....	L-D 6
Oriskany Falls.....	Oriskany Falls Br'g Co.. A P M-D 9	
Oswego.....	Brosemer, L., Brewing Co., 472 and 474 W. First st..A P M-D 5	
" .....	Millott, J.B., 458 W.First st..A-D 10	
" .....	¶Nacey & Flannigan, 14 East Cayuga street.....	L-E 6
" .....	Wiegand, Lewis.....	A P-E 1
Penn Yan.....	¶Burns, Thomas S.....	L-E 6
Plattsburgh.....	Payette, Mendelsohn & Co....A-D 6	
Poughkeepsie.....	Frank's Sons, V.....	L-D 6
" .....	Gillmann, Frederick & Sons	
Rochester.....	American Brewing Co., 250 Hudson avenue.....	L B-C 4
Bartholomae Brew- ing Co., operat- ing the. L M B-A 6	Bartholomay Brewery, Vin- cent place and North St.	
	Paul street.....	L M B-A 10
	Genessee Br'g Co., 345 North Paul street.....	L M B-C 5
	Rochester Br'g Co., foot of Cliff street .....	L M B-B 7

**NEW YORK—CONTINUED.**

Rochester.....	Enrich & Miller, cor. Brown and Wentworth streets... A P-E 4
" .....	Enright Brewing Co., 336 State street..... A P-D 6
" .....	Hathaway & Gordon, 80 North Water street ..... A P M-D 1
" .....	Kase, John, Colvin, cor. Syke street..... A-E 6
" .....	Miller Brewing Co., 190 Lake avenue..... A P L B-C 8
" .....	Murphy, M., 306 N. Clinton street..... L-E 6
" .....	Standard Br'g Co., cor. Platt and Cataract streets... A P B-C 10
" .....	Union Brewing Co., 855 North Clinton street... L B-C 9
" .....	Warren, E. K., Brewing Co., 115 Central avenue.. A P M B-D 7
" .....	Weinmann, Charles, 351 Jay street..... L M-E 6
Rome.....	Evans & Giehl, 527 and 529 W. Dominick street..... A P M-D 9
" .....	Kelley & Gaheen..... A M-E 4
" .....	Smith, Julius & Co..... A P M-E 1
Rondout.....	Hauck, Geo., Brewing Co., 54 64 McEntee street. (See Kingston..... L B-D 5
" .....	Hoffman, Jacob, Brewing Co., 46 Hone st. (See Kingston)..A P-D 8
Rosebank (S. I.)....	Bachmann Brewing Co..... L-C 3
Sag Harbor.....	Dalzell, A. C..... L-E 6
Schenectady.....	Dunn, John & Co..... A-E 3
" .....	Powers & Draper Brewery..... E 6
" .....	Schenectady Br'g Co., White & Fabricius, prop., 161 Nott Terrace..... L-D 6
Stapleton (S. I.)....	Bechtel Br'g Co., George ...L B-C 1
" .....	Grieme, John H..... L-E 5
" .....	Herbert, George L..... L-E 5
" .....	Ruebsam & Horrman Brewing Co..... L B-C 1

For Key See Page 15.

## NEW YORK—CONTINUED.

	Bachmann Brewing Co., Rosebank .....	L-C 3
	Bechtel Brewing Co., George, Stapleton.....	L B-C 1
	Eckstein, Monroe Brewing Co., West New Brighton.....	L-C 5
	Grieme, John H., Stapleton ..	L-E 5
	Herbert, Geo. L., Stapleton...	L-E 5
	Kaltenmeier, Joseph, Stapleton (Clifton).....	L-E 6
	Ruebsam & Hormann Brewing Co., Stapleton.....	L B-C 1
	Glaser, Frank.....	L-E 4
Staten Island .....	Bartels Brewing Co., 100-200 North West street....	L P A B-C 3
(Recapitulation)	" .....	Crystal Spring Brewing Co., 1013 Burnet avenue.....
	" .....	L B-C 5
	" .....	Greenway Brewing Co., 308 358, West Water street.A P B-C 10
	" .....	Haberle Brewing Co., Butter-nut street.....
	" .....	L B-C 6
	" .....	House, Lewis & Sons, 522 Lock street.....
	" .....	W B-E 3
	" .....	Kearney's, William, Sons, cor. North Salina and Wolf streets .....
	" .....	A P M-D 4
	" .....	Klasi, Frank, 204 Gifford st..
	" .....	W B-E 6
	" .....	Moore, Quinn & Co., 102-110 South Crouse avenue.....
	" .....	A P-D 4
	" .....	Murphy Bros., 121 Avery st..
	" .....	W B-E 5
	" .....	National Brewing Co., 921 and 923 Lock street.....
	" .....	A P-D 3
	" .....	Rock Spring Brewing Co. (brewery at Geddes).....
	" .....	L-E 5
	" .....	Ryan, Thomas, Butternut street.....
	" .....	A P-C 8
	" .....	Scanlon, John F., Park and Pond streets.....
	" .....	W B-E 6
	" .....	Zett, George, 407 Lodi st...L M-C 9
Tonawanda.....	Bush Brewing Co.....	L-D 8
Troy .....	Conway Bros. & Kane, 124-146 North Fourth street.....	A P-C 9
" .....	Donohue-Tierney-Isengart Brewing Co., Hoosick and Tenth streets.....	L B-D 5

**NEW YORK—CONTINUED.**

Troy.....	Fitzgerald Bros., 495-511 River street.....	L A P M B-C 1
" .....	Kennedy & Murphy Brewing Co., corner Ferry and Sixth streets.....	A P M-C 4
" .....	Quandt Brewing Co., 846-869 River street.....	L B-C 10
" .....	Ruscher & Co., 474-484 Fourth street, cor. Trenton... L M B-D 3	
" .....	Stanton Brewing and Malting Co., 1458 Fifth avenue..A P M-C 7	
" .....	Stoll, The, Brewing Co., Spring avenue.....	L B-D 5
" .....	Whelan, J., 104 Jefferson..W B-E 5	
Utica.....	Eagle Brewing Co., 31 and 33 Third st.....	L-C 10
" .....	Ft. Schuyler Brewing Co., 96 to 102 Catherine street....A P-D 6	
" .....	Gulf Brewing Co., cor. Jay and Third streets .....	A-D 6
" .....	LaFayette Brewery, suc. to Barnes & Metzger, 105 Third avenue.....	L-D 10
" .....	Myres, John & Co., cor. Mo- hawk and Jay streets....A P-D 6	
" .....	Oneida Brewing Co., Court and State streets....A P L M-D 3	
" .....	People's Brewing Co., cor. Second and Catherine sts...A-D 9	
" .....	Sharp, Chas. W. & Co., Kos- suth avenue.....	W B-E 6
" .....	Utica National Brewing Co., office 201 South street... .A-D 3	
" .....	West End Brewing Co., 11-17 Edward street.....	A P L-D 3
Watertown .....	Watertown Brewing Co.... A P-D 9	
W. New Brighton, S. I. ....	Eckstein, Monroe Br'g Co....L-C 5	
West Troy .....	Weinbender, Adam, estate of. L-E 6	
Williamsville .....	Fischer & Durlam.....	L-E 6
Woodside (L. I.) .....	Consumers' Brewing Co., of Brooklyn, Betts ave.....	L B-D 9
Yonkers .....	Jackson & Co., box 272...A P B-D 3	
" .....	Kraft, Chas., So. Broadway.W B-E 6	

**NORTH DAKOTA.**

**Grank Forks**.....Dobmeier, Jacob.....L M B-D 10

**OHIO.**

<b>Akron</b> .....	Burkhardt, Mrs. Margaret, 152
"	Sherman st.....L B-D 10
"	Renner, George J., 313 North Forge street .....L B-D 6
<b>Archbold</b> .....	Andrew, Walter.....L-E 6
<b>Bluffton</b> .....	Casper, Hermann.....L M-E 5
<b>Bryan</b> .....	Halm Brewing Co., cor. Beach and Center streets....L M B-D 10
<b>Bucyrus</b> .....	Dick, Frank, North Railroad street. ....L M B-D 6
<b>Canal Dover</b> .....	Bernhard, Fred.....L M B-D 8
<b>Canton</b> .....	Canton Brewing Co., 34 North Cherry street.....L B-D 3
"	Kropp, C. & Co.....L-E 5
<b>Chillicothe</b> .....	Knecht, Jacob & Son, Water street.....L-D 10
"	Wissler, Otto & Co.....L M B-D 10
<b>Cincinnati</b> .....	Adam, Henry, Camp Washington Brewery, Miami Canal, near Straight street ....L M-D 5
"	Banner Br'g Co. (A. Darus- mont and H. Huseman, re- ceivers), corner Walnut and Canal streets.....L B-C 8
"	Becker Brewing Oo., Thirmis st. und South Branch Road (West Fairmount).....L-D 6
"	Bellevue Brewing Co., 605-619 McMicken avenue .....L-C 6
"	Bruckmann, John C., Brew- ing Co., junction Dodsworth avenue and B. & O. South- western R. R.....L M B-D 1
"	Buckeye Brewery, suc. Hude- pohl & Kotte, 46 East Mc- Micken avenue .....L-C 4
"	Foss-Schneider Brewing Co., 943-1005 Freeman avenue, Broxterman, John G., Re- ceiver .....L B-C 6
"	Gambrinus Stock Co., 400 Sycamore street.....L M B-C 5

**OHIO—CONTINUED.**

Cincinnati.....	Gerke Brewing Co., corner of Plum st. and Miami Canal .....	L P B-C 4
" .....	Germania Brewing Co., 2121 to 2125 Central avenue.....	L M-C 9
" .....	Hauck, John, Brewing Co., 1-41 Dayton street.....	L M B-B 9
" .....	Herancourt Brewing Co., Har- rison avenue.....	L-C 8
" .....	Jackson Brewing Co. (John B. Bohe, Assignee), corner Elm st. and McMicken ave.....	L B-C 8
" .....	Jung Brewing Co., 2011-2025 Freeman avenue.....	L A P B-C 1
" .....	Kauffman, John, Brewing Co., 1622-1628 Vine street...L M B-C 5	
" .....	Klinkhamer Br'g Co., corner 13th and Race sts.....	P L-D 4
" .....	Lackman, Herman, Br'g Co., 511-525 West 6th street...L M-C 5	
" .....	Moerlein, Christian, Brewing Co.. 711 Elm street...L M B-A 9	
" .....	Schaller Bros., Receivers, suc. to Schaller Bros., 652 Main street.....	L-C 10
" .....	Schmidt Bros. Br'g Co., 125 to 131 East McMicken avenue..L-D 2	
" .....	Sohn, J. G. & Co., 252 Mc- Micken avenue.....	L-C 8
" .....	Walker, J., Brewing Co., 1125 to 1135 Sycamore st..A P L B-C 8	
" .....	Windish - Muhlhauser Brew- ing Co. (Lion Br'y), Plum, Liberty, Fifteenth and Prov- idence streets.....	L M B-B 6
Cleveland.....	Baehr, Mrs. M., 325 Pearl st.L B-C 10	
" .....	Barrett Brewing Co., 393 West River street.....	A P L B-C 9
" .....	Beltz, Jos., 223 Outhwaite avenue.....	W B-E 3
" .....	Bohemian Brewing Co., 121 Vega avenue.....	L-C 8
" .....	Caskey,Alexander C.,assignee, suc. to Hughes Brewing Co., 15-21 West street .....	A P M-E 2

For Key See Page 15.

**OHIO—CONTINUED.**

Cleveland.....	Cleveland Brewing Co., corner Hough and Ansel avenues...L-C 5
" .....	Columbia Brewing Co., 43-51 Commercial street.....L-C 10
" .....	Diebolt Brewing Co., 37-43 Pittsburg st.....L B-C 9
" .....	Gavagan, Patrick, 7-11 Briggs street.....A P-E 5
" .....	Gehring, C. E., Brewing Co., Brainard, Freeman and Pearl streets.....L-C 3
" .....	Keys, Daniel H., 39, 41 and 43 St. Clair street.....A P M-E 1
" .....	Leisy, Isaac, Brewing Co., 290 Vega avenue.....L M-C 1
" .....	Mall, Jacob, Brewing Co., 5-11 Davenport street.....L-D 5
" .....	Phoenix Brewing Co., Colum- bus and Wiley streets.....L-C 4
" .....	Pilsener Brewing Co., Clark and Gordon streets.....L-D 1
" .....	Schlather, Leonard, Brewing Co., cor. York and Carroll streets.....L B-C 3
" .....	Star Brewing Co., Buckley and Burton streets (W. S.)....L-D 3
" .....	Union Brewing Co., 2 Ash st.L-D 6
" .....	Voelker, Mrs. Jacob, Howe street.....W B-E 6
Columbus.....	Born & Co., 579 South Front street .....L M B-C 5
" .....	Hoster, L., Brewing Co., 435 South Front street ....L M B-B 4
" .....	Schlee, Nicholas & Son, 526- 544 South Front street.L M B-C 8
Dayton.....	Bucher, Frank J., cor. Wayne ave. and Hickory st....A L M-D 9
" .....	Dayton Brewing Co., Wyan- dotte street.....A L B-D 6
" .....	Frank, C. H., assignee, suc. to Euckenhofer & Otto, 1519- 1523 East 3d street.....A B-E 5
" .....	Hollencamp, Theo., cor., Hick- ory and Brown streets..A P B-E 1

# The Berner-Mayer Company —

83, 85 and 87 Lake St.,

26, 28 and 30 Seneca St.,

Cleveland, = Ohio.

Manufacturers of



HYDRAULIC  
BEER PUMPS  
AND BEER PUMP  
DEVICES.....

---

#### DISTRIBUTING HOUSES:

43-45 Centre Street, - NEW YORK CITY.

187 Washington Street, - CHICAGO, ILL.

# THE BERNER-MAYER CO.

## BEER PUMP MAKERS.

WE MAKE AND HANDLE THE FOLLOWING:

The Ideal Beer Pump,	Beer Hose,
Rapid No. 1 Beer Pump,	Air Hose,
Rapid No. 2 Beer Pump,	Liquor Cocks,
Emergency Hand Pumps,	Ice Boxes,
Air Tanks,	Coolers,
Air Gauges,	Drip Pans,
Air Regulators,	Drainers,
Tubes,	Coil Boxes,
Bungs,	Work Boards,
Bar Cocks,	Beer Funnels,
Cooler Cocks,	Beer Measures,
Air Distributing Pipes,	Brass Trays,
Block Tin Beer Pipe,	Metal Polish,
Single Tap Hand Pumps,	Cork Pullers,
Double Tap Hand Pumps,	Liquor Thieves,
Common Drive Beer Faucets,	
and all necessary Attachments and Supplies	
in the Beer Pump Line.	

43-45 CENTRE ST. 187 WASHINGTON ST.  
NEW YORK CITY. CHICAGO, ILL.

83-85-87 LAKE ST.  
CLEVELAND, O., U. S. A.

**OHIO—CONTINUED.**

Dayton.....	Schantz, Adam, 128 West River street.....	L B-C 9
" .....	Schantz & Schwind Brewing Co., foot Perry street... L B-D 4	
" .....	Schwind Brewing Co., 212-232 River st..... L M B-C 10	
" .....	Stickle, Jacob, 713 Warren street..... L M-D 10	
" .....	Thomas, N., corner First and Beckel streets ..... L B-D 5	
Defiance.....	Diehl, Chris, Br'g Co., corner Water and North Clinton streets..... L M B-D 5	
Delphos.....	Steinle & Co..... L M-D 8	
East Liverpool.....	Greenwood, Henry..... A P B-E 4	
East Palestine.....	Arnold, Wm..... L-E 6	
Findlay.....	Sucker, Hermann, Receiver, suc. to Brilliant City Brew- ing Co., corner Jefferson st. and Clinton st ..... L B-D 6	
Fremont.....	Fremont Brewing Co., 432 Oak street..... L M B-D 7	
Galion.....	Altstaeter, H..... L M B-E 1	
Hamilton.....	Cincinnati Brewing Co., Front, Sycamore and Water sts. L M B-C 4	
" .....	Mason, Martin, Br'g Co., 365 South C st..... L D 1	
Ironton.....	Ebert, Leo & Co., 13 North Seventh street..... L M B-D 7	
Lancaster.....	Becker, E., Brewing Co., cor. Canal and Union street.. L B-D 10	
Leetonia.....	Siegele, Louis F..... L-E 4	
Lima.....	Quilna Brewery..... A P L M B-E 1	
Louisville.....	McCarty & Priers, Assignees, suc. to Dilger, Geo..... L-E 1	
Mansfield.....	Frank, Martin..... L M-E 2	
" .....	Renner & Weaver, 75 Fourth street..... L M B-D 7	
Martin's Ferry.....	Belmont Brewing Co..... L B-D 3	
Massillon .....	Kopp, Anton..... L B-D 5	
Miamisburg.....	Miamisburg Brewing Co.... L B-D 7	
Middletown .....	Sebald, Wm., Brewing Co., Third street..... L M B-D 7	

For Key See Page 15.

**OHIO**—CONTINUED.

Milan.....	Herb, Mary.....	L M B-E 6
Minster.....	Star Brewing Co.....	L M-D 8
Morrow.....	Morrow Brewing Co.....	A M-E 4
Napoleon.....	Tietjens, J. W.....	L M B-E 2
Newark.....	Bingmann, Charles.....	L-E 5
New Philadelphia.....	New Philadelphia Brew'g Co., M. Seibold, Proprietor.	L M B-D 6
Norwalk.....	Lais, Henry.....	A P L M B-D 10
".....	Ott, Theresa.....	A L B-E 2
Piqua.....	Kaiser, K.....	L-E 4
".....	Schneider, Henry.....	L M-E 3
".....	Schneyer, Catherine.....	L M-E 2
Pomeroy.....	Wildermuth, Gottlieb...	L M B-D 10
Portsmouth.....	Portsmouth Brewing and Ice Co.....	L M B-D 7
Sandusky.....	Kuebeler Brewing and Malt- ing Co.....	L M-C 7
Kuebeler-Stang Brewing and Malting Co., operating the.....	Stang Brewing Co., King st. .....	L B-C 9
Sidney.....	Wagner's Sons, John, Brew'g Co., Poplar street.....	L M B-D 5
Springfield.....	Springfield Breweries, (Lim- ited), Penn and Section streets.....	A P L M B-C 6
Steubenville.....	Rall, Lucy E.....	L-D 10
Tiffin.....	Hubach, Henry.....	L M B-D 9
".....	Tiffin Brewing Co.....	L M B-D 6
Toledo.....	Buckeye Brewing Co., Bush, Champlain and Michigan streets.....	L B-C 4
".....	Eagle Brewing Co.....	L B-C 10
".....	Finlay Brewing Co., cor. Sum- mit and Cedar sts.....	L M B-C 3
".....	Grasser & Brand Brewing Co., cor. South St. Clair and William streets.....	L M B-C 6
".....	Toledo Brewing and Malting Co. (Limited), Hamilton st.	L B-C 3
Troy.....	Henne & Son, Joseph.....	L M-E 1
Upper Sandusky.....	Upper Sandusky Br'g Co.	L M B-E 4
Wapakoneta.....	City Brewing Co.....	L M B-E 1
Wooster.....	Wooster Brewing Co...	A L M B-E 2
Xenia.....	Hollenkamp & Weddel,Colum- bus and Water st..	A P L M B-E 1

**OHIO—CONTINUED.**

Youngstown .....	Renner, Geo., J., Jr., 523 Pike street .....	A P L-D 3
" .....	Smith's Sons, John, 523 West Federal st.....	A P L M B-D 3
Zanesville .....	Ambruster & Schmidt, Mun- roe street.....	L B-D 9
" .....	Bohn, August, 144 Marietta street.....	L M-E 5
" .....	Linser, Simon, 350 East Main street.....	L B-D 4
" .....	Riverside Brewing Co., River Road.....	L B-D 5
Zoar.....	Zoar Society.....	L M-E 6

**OKLAHOMA TERRITORY.**

Alva Township.....	Gerhard Willers.....	L-E 6
--------------------	----------------------	-------

**OREGON.**

Albany.....	Albany Brewing Co.....	L B-D 10
Astoria.....	Kopp, John.....	L B-D 7
" .....	St. Louis Brewing Co.....	L-E 6
Baker City.....	Rust Henry.....	L M B-E 5
Burns.....	Rohrman, John.....	L-E 6
Canyon City.....	Sels, F. C.....	L M B-E 6
Gardner.....	Varrelman, Frank.....	L-E 2
Grant's Pass.....	Kienlen, Eugene.....	L-E 6
" .....	Walter, Geo.....	L-E 6
Klamath Falls.....	Uerlings, John A.....	L M B-E 6
Lakeview.....	Jammerthal, Geo.....	L M B-E 6
Le Grande.....	Roesch, Julius.....	L M-E 6
Marshfield.....	Clemmensen, Lars.....	L B-E 5
Medford.....	Bashford, G. W.....	L-E 5
Oregon City.....	Hartmann, Geo. & Co.....	L M-E 5
Pendleton .....	Nolte, Anton.....	L-E 6
" .....	Roesch, William.....	L M B-E 6
Portland.....	Gambrinus Brewing Co., cor. 22d and Washington sts..	L B-D 3
" .....	Weinhard, Henry, cor. 13th and Burnside streets...	L M B-C 7
" .....	Wilheim, John G.....	P L B-E 5
Prineville.....	O'Neill & Geiger.....	L-E 6
Roseberg.....	Meyer, G. C.....	L M-E 6
Salem .....	Klinger & Beck.....	L M-E 1
Summerville.....	Ott, George.....	L M B-E 6
The Dallas.....	Buchler, Aug.....	L W B-E 4

For Key See Page 15.

**PENNSYLVANIA.**

Allegheny.....	Eberhardt & Ober Brewing Co., 1 Troy Hill Road.....	L B-C 3
" .....	Hippely & Son, 314 Spring Garden avenue.....	L A P B-D 4
" .....	Lutz, D., & Son Brewing Co., cor. Chestnut st. and Spring Garden avenue....	A P L M B-C 5
" .....	Ober, Frank L. & Bros., Br'g Co., Ltd., 63-69 Vinial st..	L B-D 4
Allentown.....	Birkenstock, John, cor. Sixth and Union streets ..	A P L B-D 6
" .....	Daeufer & Co., Lawrence and Jefferson streets.....	P L-D 4
" .....	Nuding Brewing Co., 114 So. Seventh street .....	P L-C 10
Altoona.....	*Bender, Wm. B.....	L-E 6
" .....	Biehl, Jacob, 1226 4th avenue..	L-D 10
" .....	Enzbrenner, John M...A P L M-E 2	
" .....	Rabenschlag, Chas.....	L-E 4
" .....	Schimminger & Wilhelm....	L-D 10
Beatty (Latrobe).....	Benedictine Society.....	L-E 6
Beaver Falls.....	Anderton Brewing Co..A P B L-E 2	
" .....	Beaver Falls Brewing Co.....	L-E 4
Bennett .....	Baeuerlein, C., Brewing Co., corner Butler and Evergreen Plank roads.....	L B-C 8
" .....	Enz M., Brewing Co...A P L B-D 4	
" .....	Hoehl Brewing Co.....A P L M-E 1	
Bethlehem.....	Monocacy Brew'y, suc. Weid- man & Co.....	L B-D 7
" .....	Uhl's Estate, suc. Uhl, Anna, Union and Monocacy street..	L-D 6
Brisbin.....	Schwaab, Wm.....	L-E 6
Brookville .....	Allgeier, Magnus.....	L-E 2
" .....	Brookville Br'g Co., Christ. Sebastian C., prop .....	L P-E 2
Carbondale .....	Krantz, Peter, South Church street .....	A L-D 3
Carroltown.....	Blum, Barbara A.....	L M B-E 4
" .....	Farabaugh, C. A.....	L M-E 4
Catasauqua.....	Kostenbader, Herman .....	L-D 7
Chambersburgh.....	Fortney, Samuel A.....	L-E 6
Chester (South).....	Haser, Franz X .....	L-E 3

**PENNSYLVANIA—CONTINUED.**

Chewton (South).....	Schmidt, Peter .....	A P L-E 5
" "	Rengers B., & Son.....	L-E 6
" "	Roth, Mathilde.....	L-E 6
Clearfield.....	Wagner, Michael, successor to Ries, Rosa.....	P L-E 6
Coalport.....	Niebauer, P. G.....	L-E 5
Columbia.....	Loder, Jos.....	L P M B-D 7
Connellsville.....	Connellsville Brewing Co.....	L-D 4
" .....	Tippmann, Joseph.....	L-E 5
Conshohocken.....	Reiger, Louis.....	L-E 4
" .....	Gulf Brewing Co.....	L P B-D 6
Danville.....	Bausch, J. & C.....	P L-E 2
" .....	Polish Lithuanian Brewing Co.....	A P L-E 4
Dickson City.....	Gutknecht, J. G. & Co.....	A P-D 5
Dunmore.....	Keystone Brewing Co., 240 Blakely street .....	A P-D 2
East Mauch Chunk .....	Schweibinz, Pius.....	P L-E 1
Easton.....	Kuebler, Willibald .....	A P L B-D 2
" .....	Seip, Isabella R.....	L-E 2
" .....	Seitz Bros.....	A P L B-D 5
Erie.....	Conrad, C. M., Sixth and Parade streets .....	L B-D 5
" .....	Erwin J. Howard, 17th and Parade streets .....	A P B-E 2
" .....	Koehler, Fred & Co., corner 26th and Holland sts.....	L B-C 9
" .....	Koehler, Jackson, Eagle Brew- ery, 22d and State streets.	L B-C 9
" .....	Vogt, Frank, Mill Creek....	L-E 5
Etna.....	Metzger, Michael.....	W B-E 6
Finleyville.....	Morrison, Thomas.....	L-E 5
Franklin.....	Brecht, Christian.....	L B-E 3
" .....	Grossman, Philip, 19 South Park street.....	L B-E 5
Gallitzin.....	Ankenbauer, Geo.....	L W B-E 6
Germania.....	Schwarzenbach Br'g Co...	L B-D 10
Greensburg.....	Greensburg Brewing Co.....	L-D 10
Gulf Mills.....	Gulf Br'g, (see Conshohoken)..	L-D 9
Harrisburgh .....	Doehne, George, 322 Chestnut street .....	A P L B-D 10
" .....	Fink, Henry, 312-320 Foerster street .....	A P L-D 5

For Key See Page 15.

**PENNSYLVANIA**—CONTINUED.

Harrisburgh	Graupper, Robert, 207 Chestnut street.....	L-E 1
Hawley	Distler, Hans.....	L-E 6
Hazelton	Hazelton Lion Brewery, John Arnold, Proprietor, corner Mine and Mill streets....	P L-C 9
Honesdale	Guckenberger, M. B.....	L-D 9
"	Hartung, August.....	A P L-E 1
Jersey Shore	Hauser, Chas.....	L-E 6
Johnstown	Emmerling, John, 102 Horner street.....	L A B P-D 10
"	Goenner & Co. (Cambridge City).....	L P B-D 8
"	Kost, Lawrence (Connemaugh)	L-E 6
"	Lambert & Kress, 1184 Railroad street.....	A P-E 4
Kersey	Uhrman, Alves.....	A B-E 6
Kittanning	Elk Brewing Co.....	L-D 7
Lancaster	Haefner, Jos., 135 Locust st..	L-D 6
"	Rieker, Frank A., 502-506 W. King street.....	L-C 10
"	Sprenger Brewing Co., 205-215 Locust street.....	L B-D 3
"	Wacker, Chas. V. & Bro., 203 W. Walnut street.....	L-D 10
"	Zech, Charles .....	L P B-E 4
Latrobe	Benedictine Society .....	L-E 2
"	Latrobe Brewing Co.....	L-D 8
Lebanon	Iron City Brewing Co.....	L-E 1
"	New Lebanon Brewing Co., Limited.....	A P L-D 6
"	Union Brewing Co., 216 North Twelfth street.....	L-E 1
Lewistown	Bossinger, Fredericksa.....	L-E 6
Lock Haven	Lucas, F. C.....	L B-E 4
"	Weidman, Rudolph.....	L-E 5
Loyalsock	Welker & Goodbrod.....	L-E 3
Lykens	Lykens Brewing Co., Louis Wentzler, C. W. Blumer, props.....	P L-D 10
Madera	Vesser, J. & A.....	L-E 5
Mahanoy City	Kaier, Chas. D. Co., limited .....	A P L B W-C 5
Marietta	Manlick, Ernest.....	L M-E 4

**PENNSYLVANIA—CONTINUED.**

Mauch Chunk.....	Weysser, John R. G. ....	A P L-E 3
Meadville .....	Dudehoeffer, N.....	L-E 5
" .....	Schwab, Frank.....	L-E 2
" .....	Walster & Echnoz, Terrace street.....	A P-E 5
Minersville .....	Zapf, Charles & Co .....	A P L-E 3
Monongahela City....	Harrison, William.....	L-E 6
" ....."	Roth, Andreas.....	L-E 6
Mount Joy.....	Bube, Alois.....	L-E 4
Mount Pleasant.....	Mt. Pleasant Brewing Co....	L-D 5
Nanticoke.....	*Flach's, Geo. W., Br'g Co..	L P-D 4
New Castle.....	Carthans, Wm. F.....	L B-E 3
" .....	Kirst, John.....	A P L B-E 6
Norristown .....	Scheidt, Adam, Brewing Co., corner Marshall and Barba- does streets.....	A P L M B-C 9
Oil City.....	Saltzmann Bros.....	L B-D 9
Osceola Mills.....	Taylor, James.....	W B-E 6
Philadelphia .....	Amrhein & Hoch, Sixth and Clearfield streets.....	L-D 9
" .....	Arnholt & Schaefer Brewing Co., northwest corner 31st and Thompson streets.....	L-C 6
" .....	Baltz, J. & P. Br'g Co., 31st and Thompson streets..	L M B-B 8
" .....	Bergdoll, Louis, Brewing Co., 29th and Parrish sts....	L M B-B 6
" .....	Bergner & Engel Brewing Co., cor. Thompson, Master and 32nd streets, branch No 1.....	
" .....	Bergner & Engel Brewing Co., cor. 33rd and Thompson sts., branch No. 2..	A P L B-A 9
" .....	Bergner & Engel Br'g Co. (Estate of Henry Mueller branch), cor. 21st and Jefferson sts., branch No. 3.....	

**PENNSYLVANIA—CONTINUED.**

Philadelphia.....	Betz, John F. & Son (Limited), Crown, Willow, Fifth and Callowhill sts., A P L M B-B 4
" .....	Binder, Gottfried, 606 and 608 St. John street.....L-D 10
" .....	Braunwarth, Chas. L., 2734 Cambridge st.....L-E 5
" .....	Burg & Pfaender, 33d near Master street.....L B-C 10
" .....	Christman, Chas., 1604 Thompson street.....L-E 6
" .....	Class & Nachod, 1727 Mervine street.....L-C 6
" .....	Conrad, Jacob, 27th and Parish sts. (see Keystone State Brewery).....L B-D 5
" .....	Continental Brewing Co., cor. 21st street and Washington avenue.....A P L B-C 2
" .....	Erdrich, Andrew & Son, cor. Bridge and Walker streets, Frankford.....L-C 9
" .....	Esslinger, George, & Son, 415-421 Rugan st., office 417 No. 10th street.....L. P B-D 2
" .....	Excelsior Brewing Co., 1746-1748 Mervine st.....L-C 7
" .....	Feil, Frederick, 2207 North 6th street.....L-C 9
" .....	Finkenauer, Theo., 1718 Germantown ave.....L-C 9
" .....	Flach, Henry & Son, Thirty-first and Master streets.....L-D 3
" .....	Fritsch, John, 4224 Edward street.....L-D 9
" .....	Gallivan Co., 723 North 4th street.....L B-D 5
" .....	Germania Brewery, John F. Betz, proprietor, 1716 North Broad street.....L B-D 1
" .....	Grauch Brewing Co., 4242 Edward street.....L-D 9
" .....	Heimgartner, William, 1230 Frankford road .....L-D 10

**PENNSYLVANIA**—CONTINUED.

Philadelphia.....	Hohenadel, John W., corner Thirty-fifth and Queen sts. L-D 10
".....	Hornung, Jacob, 3211 North Twenty-second street.....L-E 3
".....	International Brewing Co., 822-834 St. Johns st.. A P L M-E 1
".....	Keller, George, Brewing Co., cor. Thirty-third and Master streets.....L-D 3
".....	Keystone State Brewery, Jacob Conrad, proprietor, corner Twenty-seventh and Parish streets.....L B-D 5
".....	Klein, Philip & Son, 2310 Fair- mount avenue.....L P B-E 3
".....	Kohnle, Joseph, Brewing Co., 1715 to 1723 Buttonwood street.....L-D 3
".....	Lehman, Mathias, 2265 Ork- ney street.....L-E 4
".....	Liebert & Obert, 156 Oak st., Manayunk.....L-D 1
".....	Miller, John C., Brewing Co., cor. Ashmead and Wakefield streets (Germantown).. A P L-C 6
".....	Mischler, Adolph, Jr., 2301 Richmond street.....L-E 5
".....	Mutual Brewing Co. of Phila- delphia, cor. Queen and Baird sts. (Germantown). L B-D 2
".....	Nichterlein, Caroline, 1710 Mervine street.....L-E 2
".....	Ortlieb, Rupert, 844 St. John street .....
".....	Park Brewing Co., 212 Ridge avenue .....
".....	Philadelphia Brewing Co., cor. Sixth and Clearfield sts....L-C 4
".....	Poth, F.A. & Sons, Thirty-first and Jefferson streets.....L-B 5
".....	Prospect Brewing Co., 11th and Oxford streets .....
".....	Reppe, Charles C., 1805 South Fourth street.....L-E 5

**PENNSYLVANIA—CONTINUED.**

Philadelphia.....	Rieger, Joseph & Sons, 1708 Cadwallader street.....	L-D 8
" .....	Rieger & Gretz, 404-408 Oxford street.....	L B-D 1
" .....	Rising Sun Brewing Co., 3246 Germantown avenue.....	L-D 10
" .....	Roehm, John, 856 Charlotte street .....	L-C 6
" .....	Rose, Hermann, 805 South Eleventh street.....	L-E 2
" .....	Rothacker, G. F., Brewing Co , 31st st., below Master.....	L-C 8
" .....	Rudolph, A., Muellerschoen's Weiss Beer Brewery, 465-497 North Third street.....	W B-D 10
" .....	Schauffler, Charles, 1205 Ely avenue.....	L-E 5
" .....	Schemm, Peter & Son, 25th and Poplar streets.....	L-C 9
" .....	Schmidt, C. & Sons, 127 Edward street.....	L-C 1
" .....	Schwerdfeger, Charles H., cor. Broad and Cumberland sts..	L-D 9
" .....	Smith, Robert, India Pale Ale Brewing Co., corner 38th st. and Girard ave.....	A P M B-D 10
" .....	Spaeth, Krautter & Hess, corner Germantown and Lehigh avenues.....	L-C 6
" .....	Stengel, Christian, 240 Germantown avenue.....	L-E 5
" .....	Straubmiller, J., York street and Trenton avenue .....	L-D 4
" .....	Vollmer, Elizabeth, 1417 Randolph street.....	L B-D 4
" .....	Weger Bros., corner 32d and Master sts., office, northeast corner Third and Buttonwood streets.....	L B-C 7
" .....	Weihmann, John, Tenth and Callowhill streets.....	L-D 8
" .....	Weissbrod & Hess, Frankford avenue and Adams street.	L B-C 4
" .....	Welde & Thomas Brewing Co., Fitzwater and Juniper streets .....	L P B-C 6

**PENNSYLVANIA—CONTINUED.**

Philadelphia.....	Wolf, Albert, 212 North Third street .....	L-E 5
" .....	Wolf, J. J., 931 North 5th st..	L-E 6
" .....	Zaun, Philip, 1425 German- town avenue.....	W B-E 1
Pittsburgh.....	De Wald, Wuesthoff & Co., 112 First avenue .....	A P-D 6
" .....	Hauch's Sons, Ernst, corner 26th and Sarah streets ...	L B-D 5
" .....	Iron City Br'g Co., Liberty ave., 33d and 34th sts.	A P L B-B 7
" .....	Keystone Brewing Co. (Ltd.), Carson street, S. S....	A P L B-C 5
" .....	Lauer, Henry & Bros., head of Eighteenth street, S. S.....	L-E 1
" .....	Nusser, John H., National Br'y, head of S. 12th st...L M-D 6	
" .....	Phoenix Brewing Co., 24th and Smallman sts....A P L B-C 2	
" .....	Pier & Dannals, corner Forbes ave. and Stevenson st.A P L B-C 10	
" .....	Seiferth, J. & Bros., 2600 Josephine street.....A P L-D 4	
" .....	Straub Brewing Co., cor. Main st. and Liberty ave...A P L B-C 8	
" .....	Wainwright Brewing Co., 3615 Butler street... ....A P L B-C 2	
" .....	Winter, M. & Bros., Brewing Co., 2022-2030 Josephine st ..L-C 3	
Pittston.....	Howell & King Co.....A P-D 5	
" .....	Hughes & Glenon.....L P-C 7	
" .....	Strang, Sarah B., administra- trix, suc. to estate of H. R. Hughes.....A P M-D 5	
Pottstown.....	Froelich & Pfaender.....L-E 2	
Pottsville.....	Rettig, Charles & Son, 820 West Market street.....P L-C 10	
" .....	Schmidt, Lorenz, Est. of..A P L-D 2	
" .....	Yuengling, D. G. & Son, Mo- hantongo street .....A P L M-C 5	
Punxsutawney.....	Baumgarten, Joseph.....L-E 4	
" .....	Phillips, Otto.....L-E 6	

For Key See Page 15.

**TENNESSEE—CONTINUED.**

Knoxville.....	New Knoxville Br'g Co.....	L B-D 6
Memphis .....	Tennessee Brewing Co., Butler and Tennessee streets..	L M B-C 7
Nashville .....	Gerst, Wm., Brewing Co., 823 to 827 South High street..	L B-C 8

**TEXAS.**

Bellville.....	Herman, Frank .....	L-E 6
Dallas.....	Dallas Brewery.....	L B-C 10
" .....	Mayer, Simon .....	W B-E 6
" .....	Wagenhauser, A.....	L-E 6
Fort Worth.....	Texas Brewing Co., cor. Ninth and Jones streets.....	L B-C 6
Fredericksburgh.....	Probst, Fred.....	L B-E 6
Houston .....	American Brewing Ass'n...L B-C 7	
" .....	Houston Ice and Brewing Co..L C 6	
Meyersville.....	Franke, Gustave.....	L-E 6
San Antonio.....	Degen, Chas.....	L-E 6
" .....	Lone Star Brewing Co.....	L B-C 6
" .....	Ochs & Aschbacher.....	P W B-E 5
" .....	San Antonio Brewing Ass'n.L B-C 4	

**UTAH.**

Logan.....	Cache Valley Brewing Co.L MB-E 6
" .....	Logan City Brewing Co.....L-E 6
Ogden.....	Becker Brewing and Malting Co., corner Nineteenth and Lincoln streets.....L M B-E 1
" .....	Wells, Ransom A. & Co..L M B-E 6
Salt Lake City.....	Fischer, A., Brewing Co., 2d South and 10th West sts.L M B-D 5
" .....	Margetts, R. B., estate of, 317 North, cor. 2d West..A L M B-E 6
" .....	Salt Lake City Brewing Co., 10th East and 5th So...L M B-D 4
" .....	Wagener Brewing Co., incor- porated, Pioneer Canyon, 17 2d South.....L M B-D 10

**VERMONT.**

Bellows Falls.....	Mountain Spring Brewing Co. (bry. at Walpole, N. H.).A P L-D 3
--------------------	---

**VIRGINIA.**

Alexandria .....	Portner, Robert, Br'g Co...L B-C 5
Front Royal .....	Steed & Hart.....L-E 6

**VIRGINIA—CONTINUED.**

Richmond .....	Kersten & von Rosenegk N. (Richmond Brewery), P. O. Box 170.....	L B-D 4
" .....	Stumpf, Peter, Br'g Co..	L P B-C 10
Roanoke .....	Virginia Brewing Co.....	L B-D 8

**WASHINGTON.**

Auburn .....	Friend-Degginger Importing Co.....	A P B-E 6
Cheney .....	Jos. Weber.....	L-E 6
Chewelah .....	Mengert, Otto .....	L-E 6
Colfax .....	Schmidt, Alvin.....	L-E 5
Colville .....	Pohle, J. & Co.....	L M B-E 6
Davenport .....	Tischner, Robert.....	L-E 6
Dayton .....	Weinhard, Jacob.....	L M B-E 6
Ellensburg .....	Dewiscourt, M.....	L M B-E 6
" .....	*St. Louis Br'g Co.....	L-E 6
Methow .....	Schuster, M.....	L-E 6
Miles .....	Bockemuehl, Bernhard....	L M-E 6
Orting .....	Koller, G. & Co.....	L-E 6
Palouse .....	Schmidt & Saunders.....	L-E 6
Roslyn .....	Durrwachter, Ed. ....	L-E 4
Seattle .....	Seattle Brewing & Malting Co., own- ing and operat- ing the.....	L M B-C 6
" .....	Bay View Brewery.....	
" .....	Claussen-Sweeney Brewery..	
" .....	Saake, Chas. A.....	L-E 6
Spokane .....	Galland-Burke Brewing and Malting Co .....	L M-D 5
" .....	Gorkow, Rudolph.....	L B-D 5
" .....	Henco Bros.....	L M-E 1
" .....	Hieber Brg. and Mltg. Co.	L M B-E 2
Sprague .....	Porak, R. O.....	L M B-E 5
Tacoma .....	Milwaukee Brewing Co.....	L B-C 9
" .....	Puget Sound Br'g Co....	L M B-C 10
Uniontown .....	Jacobs, Mrs. Sophia.....	L M-E 6
Vancouver .....	Star Brewery.....	L B-E 1
Walla Walla .....	Betz, Jacob.....	L-E 2
" .....	Stahl, Mrs. John H.....	L M B-E 3
Waterville .....	Forschner, Geo. L., Western Brewery.....	L M B-E 6

For Key See Page 15.

**WEST VIRGINIA.**

Central City .....	American Br'g & Ice Co....	L B-D 9
Harpers Ferry .....	Harpers Ferry Brewing Co....	L-E 6
Parkersburgh .....	Parkersburgh Brewing Co..	L B-D 6
Wheeling .....	Balzer, Catherine, 25th st....	A-E 4
" .....	Kenney, J. J., suc. Kenney &	
" .....	Blum.....	A P-E 3
" .....	Reymann Brewing Co....	L M B-C 5
" .....	Schmulbach Brewing Co., 33d	
" .....	and Wetzel sts.....	L B-C 7
" .....	Smith Br'g Co., 840 Market	
" .....	street.....	A P-E 3

**WISCONSIN.**

Alma .....	Alma Brewing Co.....	L M-E 2
Antigo.....	Antigo Brewing Co.....	L-E 1
Appleton .....	Dambrusch, George .....	L-E 6
" .....	Heid, Walli, Prop., Muench	
" .....	Brewing Co.....	L B-D 7
" .....	Walter, Geo. (Star Brewery),	
" .....	542 to 556 Walnut st....	L M B-D 5
Arcadia .....	Fricker, Wm.....	L-E 4
Ashland .....	Miller & Co., 117 Tenth ave.,	
" .....	East.....	L-E 1
Bangor.....	Hussa Br'g Co., suc. to Hussa,	
" .....	Joseph, estate of .....	L M B-D 9
Baraboo .....	Effinger, Ferdinand.....	L M B-E 2
" .....	Ruhland, George, 235 Linn	
" .....	street.....	L M-E 2
Beaver Dam.....	Binzel, J. Philip,.....	L M-E 3
" .....	Goeggerle, John.....	L M-E 2
Beloit .....	Schlenk, Augustine, 134 State	
" .....	street.....	A P M-E 5
Berlin .....	Schunk, Ludwig.....	L B-E 6
Black River Falls.....	Oderbolz, Ulrich.....	L-E 3
Bloomer.....	Liehe, Charles.....	L M-E 5
Boscobel .....	Schuler & Dobler.....	L B-E 5
Burlington .....	Finke-Uhen Br'g Co., suc.	
" .....	Finke, W. J. & Co.....	L M B-D 9
" .....	Klein, F. G. & Co.....	W B-E 6
Cassville .....	Lorscheter, Mathias.....	L M-E 4
Cecil .....	Buche, E. W.....	L-E 5
Cedarburgh.....	Weber, John.....	L M-E 2
Chilton .....	Gierow & Hoch.....	L M B-E 2
Chippewa Falls .....	Leinenkugel, Jacob.....	L-E 2

**WISCONSIN**—CONTINUED.

Columbus.....	Brauchle, Peter.....	L L-E 6
".....	Kurth, John H. & Co., Lud-	
	dington street.....	L M B-E 2
Cross Plains.....	Esser, Jacob.....	L M-E 2
Durand.....	Baur & Breunig.....	L B-E 2
Eau Claire.....	Michels, Henry.....	L M-E 3
".....	Walter, John & Co. ....	L M B-D 6
Ellsworth.....	Husting, Nicholas.....	L-E 6
Fond du Lac.....	Bechaud Brewing Co....	L M B-D 8
".....	Sander, Adam.....	L M B-E 4
Fort Atkinson.....	Spacht, William, 12 S. Water st.	L-E 4
Fountain City.....	Koschitz, John.....	L M B-E 6
".....	Fountain City Brewing Co....	L-E 2
Grafton.....	Weber, William.....	L W M B-E 3
Grand Rapids.....	Twin City Brewing Co.....	L-E 4
Green Bay.....	Hagemeister Br'g Co....	L M B-E 2
".....	Hochgreve Brewing Co....	L M-D 9
".....	Rahr's Sons, Henry, 1823 Main	
	street.....	L M B-D 6
".....	Van Dycke, O., Br'g Co..	L M B-D 3
Greenwood.....	Ludwig, C. (See Yuba).....	L-E 6
Hartford.....	Portz & Werner.....	L B-E 3
Highland.....	Semrod, John A. & Bros....	L M-E 3
Hillsborough.....	Bezucha, Joseph.....	L M-E 4
Hudson.....	Hochstein, A. & J.....	L M B-E 4
".....	Riedel, George.....	L M-E 5
Hurley.....	Becker, Phillip.....	L-E 3
Janesville.....	Buob Bros.....	L M-E 2
".....	Hemming, William & Son ..	A P-E 5
".....	Knipp, Louis F.....	L M-E 1
".....	Robinson, N. B. & Co ..	A P-E 5
Jefferson.....	Heger, Rudolph.....	L M B--D 10
".....	Schmidt, Adam.....	L-E 5
".....	Jefferson Br'g & Malting Co.	L M-E 3
Kaukauna.....	Helf, Jacob .....	L B M-E 1
".....	Bavarian Brewing Co.....	L M-E 3
Keewaunee.....	Kewaunee Brewing Co.....	L-E 4
".....	Mach & Langer .....	L-E 4
La Crosse.....	Bartl, Franz, Twelfth and La	
	Crosse streets.....	L M-E 1
".....	Gund, John, Brewing Co.,	
	Mormon Coolie Road...L M B-C 4	

For Key See Page 15.

**WISCONSIN—CONTINUED.**

<b>La Crosse</b>	Heileman, G., Brewing Co., 1018 South 3rd street..L M B-C 10
"	Michel, C. & J., Br'g Co..L M B-C 7
"	Voegele, G. F. & Bros., 210 Mill street.....L M-E 4
"	Zeisler, George & Sons, 718 North 3rd street ..L M-D 9
<b>Madison</b>	Breckheimer, M., 215 King st.L-E 2
"	Fauerbach Brewing Co., 651 Williamson street.....L M B-E 1
"	Hausmann Brewing Co., 335 State street.....L M B-D 1
<b>Manitowoc</b>	Kunz, Bleser & Co.....L P B-D 9
"	Rahr Son's Co., William..L M B-D 8
"	Schreihart Brewing Co ..L M B-D 8
"	¶Schwarzenbach & Steffany..L-E 6
<b>Marathon</b>	Sinderman, Frank.....L-E 6
<b>Marshfield</b>	Marshfield Brewing Co.....L M-D 8
<b>Mauston</b>	Miller & Hauer.....L-E 5
<b>Mayville</b>	Steger, J. & Co ..L-E 2
"	Zeigler, M., Brewing Co....L B-E 2
<b>Mazomanie</b>	Mazomanie Brewery, suc. to Lang, Caroline.....L M-E 4
<b>Medford</b>	Medford Brewing Co ..L-E 4
<b>Menasha</b>	Menasha Brewing Co....L M B-E 5
"	Walter Bros. Br'g Co....L M B-D 6
<b>Menomonie</b>	Burkhardt, Gottfried.....L-E 3
<b>Merrill</b>	Ruder, George, Br'g Co., cor. River and Nast streets.....L-D 9
<b>Milwaukee</b>	Blatz, Valentine, Brewing Co. (Milwaukee and Chicago Breweries Co.), 609 Broad- way ..L M B-A 7
"	Cream City Brewing Co., 494 to 510 Thirteenth street...L B-C 6
"	Gettelman, A., Brewing Co., west end State street....L M-C 7
"	Graf, John, corner Greenfield avenue and 17th st...W M B-D 10
"	Gruszczynski, J. F., 485 Tenth avenue.....L-E 6
"	Husting, E. L., 454 5th st..W B-E 2
"	Jung Br'g Co., successor to Obermann, J., Br'g Co., cor. 5th and Cherry sts....L M B-C 7

**WISCONSIN—CONTINUED.**

Milwaukee.....	Kohl, John, 507 21st... ....	L B--E 6
" .....	Miller, Fred, Brewing Co., west end State street....	L B--B 5
" .....	Milwaukee Brewing Co., cor. Clarence and 8th aves.. .	L B--D 2
" .....	Munzinger & Gerlinger, 184 and 186 Burrell street ...	W B--E 6
" .....	Pabst Brewing Co., 917 Chest- nut street.....	L M B--A 1
" .....	Schinz, Henry, Bottling Co., 757 North Water street..	W B--E 4
" .....	Schlitz, Jos., Brewing Co., 3d and Walnut streets....	L M B--A 4
" .....	Werrbach, L., 89 Biddle st.	W B--E 6
Mineral Point.....	Gillmann, Chas.....	L M B--E 2
" .....	Minor, Morris J.....	A P M--E 6
Mishicot.....	Scheuer, John G.....	L M--E 2
Monroe.....	Blumer, Adam, prop. Monroe Brewery.....	L M B--D 8
Mount Calvary.....	Wirth, J. A. & Co.....	L M--E 4
Muscoda.....	Lampe & Kaiser.....	L M--E 4
Neenah.....	Ehrgott, Adam W.....	L M B--E 6
Neillsville.....	Eilert, Ernst .....	L M B--E 1
Neosho.....	Binder, J.....	L--E 6
Newburgh.....	Schwalbach, Henry.....	L M B--E 6
New Glarus.....	Zweifel, G.....	L M--E 4
New Lisbon.....	Bierbauer, Henry.....	L M--E 4
New London.....	Becker, Edward .....	L M B--E 4
" .....	Knapstein, Theo. & Co....	L M--D 10
North Lake.....	Frederickson, Rasmus..	L P M B--E 6
Oconomowoc.....	Binzel, Peter.....	L M B--E 2
Oconto.....	Oconto Brewing Co.....	L M B--E 1
Onalaska.....	Onalaska Brewing Co.....	L M--E 1
Oshkosh.....	Oshkosh Br'g Co.....	L B--D 8
" .....	Rahr, Charles, Jr.....	L M B--E 3
Pleasant Branch.....	Brunkow & Mueller .....	L M B--E 3
Platteville.....	Hoppe, Fritz.....	L B--E 2
Plymouth.....	Anton Schreiner.....	L M B--D 10
Portage.....	Epstein, Henry.....	L--E 4
" .....	Eulberg Bros.....	L M B--D 9
Port Washington.....	Biedermann, G. & Co.....	L B--D 9
Potosi.....	Schumacher, Adam.....	L M--E 1

**WISCONSIN—CONTINUED.**

Prairie du Chien.....	Schumann & Menges Brewing Co., Church street.....	L M B--E1
Princeton.....	Ernst, John.....	L M--E 4
Racine.....	Belle City Brewing Co.....	L--E 6
".....	Klinkert, Ernst (City Brew- ery), 800-828 Washington avenue.....	L M B--C 10
".....	Schilling, Phillip E., Milwau- kee Road.....	L--E 6
".....	Weber, W. H., North Michigan street.....	L M--E 5
Reedsburgh.....	Reedsburgh Brewing Co....	L M--E 2
Rhinelander.....	Rhinelander Brewing Co....	L B--E 3
Rice Lake.....	Miller, Anton.....	L--E 4
".....	Scharbillig Bros. & Co.....	L--E 6
Ripon.....	Haas, John.....	L M B--E 2
Sauk City.....	Roeser, George.....	L M--E 6
".....	Sauk City Brewing Co.....	L M--E 4
Schleisingerville.....	Storek, Charles .....	L M B--D 8
Shawano.....	Raddant, Emil T.....	L M--E 2
Sheboygan.....	Gutsch Brewing Co., The LW B--D 4	
".....	Schreier, Konrad Co....	L M B--C 10
".....	Steinke, Louis.....	L--E 6
Shullsburgh.....	Shullsburgh Brewery, Moritz Hofmann.....	L M--E 4
Silver Creek.....	Hamm, Carl .....	L M- E 2
South Germantown.....	Reingruber, A. H.....	L--E 6
Stevens Point.....	Lutz, Andreas .....	L--E 1
".....	Mechalski, Frank .....	L--E 6
Sturgeon Bay.....	Sturgeon Bay Brewing Co....	L--E 1
Theresa.....	Luhn & Asenbaur.....	L--E 6
".....	Weber, Gebhard.....	L M--E 3
Thiensville.....	Gerlach, August.....	L M--E 3
Tisch Mills.....	Langenkamp, A. & Bro....	L M--E 3
Two Rivers.....	Mueller Bros.....	L M B--E 1
Washburn.....	Washburn Brewing Co.....	L--E 1
Watertown.....	Fuermann, A., Brewing Co., 100 Jones street.....	L M B--D 7
".....	Hartig, Wm. suc. to Hartig & Manz.....	L M B--D 3
Waukesha.....	Waukesha Spring Brewing Co. (office 13 and 15 West Ohio street, Chicago) .....	L B--C 8
".....	Waukesha Soda Water Co...L--E 6	

**WISCONSIN**—CONTINUED.

Waukesha .....	Weber, Wm. A., 141 North street.....	L M B-D 8
Waupun.....	Scala, John.....	L M-E 4
Wausau .....	Mathie Brewing Co., 416-418 Grand avenue.....	L M B-D 8
" .....	Ruder, Geo., Brewing Co...L M-D 6	
Wauwatosa.....	*Schwickhart, Jr., Geo.....	L-E 6
West Bend.....	West Bend Brewing Co., L M B-D 5	
West De Pere .....	Schmidt, A. R.....	L-E 6
West Superior.....	Klinkert Brewing Co., 702 8th Street.....	L M B-D 9
" .....	West Superior Brewing Co....L-E 3	
Weyauwega.....	Quade & Schoneck.....	L-E 5
Whitewater.....	Klinger, Nick .....	A L M B-E 3
" .....	Melster, H. R.....	W B-E 6
Yuba.....	Ludwig, C.(brewery at Green- wood) .....	L-E 6

**WYOMING**

Green River .....	Gaensslen, Hugo.....	L B-E 5
Hyattville .....	*Downer & Carrosher .....	L-E 6
Leander (Fremont Co.)....	Spaulding, Will H..L A P W M B-E 6	
Sheridan .....	Sheridan Brewing Co ...L M B-E 4	

## BREWERIES IN THE DOMINION OF CANADA.

### BRITISH COLUMBIA.

Kamloops.....	Wehrfritz, Hopkins.....	A P L
Kaslo City.....	Reisterer & Co.....	A P
Nanaimo.....	Hasenfratz, A.....	A P
".....	Union Br'g Co.....	A P L B
".....	Weigle, Peter.....	A P
New Westminster .....	Andrzejewski, John W.....	A P.
".....	Nelson, N.....	A P
".....	Jamison & Co. (see Sapperton) ..	A P
Revelstoke.....	Allen, O. H.....	A
".....	Long, J. E.....	A
".....	Righton, Thos.....	A
Rosslan.....	Murphy, John.....	A
Sapperton.....	Jamison & Co. (see New West- minster.....	A P
Vancouver.....	Bewick & Wulffsohn.....	A
".....	Doering & Marstrend Brew- ing Co.....	A P L B
".....	Dreyer & Hoffmeyer.....	A L
".....	Kappler, J.....	A P M
".....	Riesterer & Jeisiner.....	A L B
".....	Williams & Barker.....	A L
Victoria.....	Fairell & Bushel.....	A P
".....	Leahy & Bostwick.....	A P
".....	O'Brien, S.....	A L
".....	Victoria Phoenix Brewing Co., Limited.....	A P L B

### MANITOBA AND NORTHWEST TERRI- TORIES.

Brandon.....	Crown Brewing Co., Neumeyer & Kohler.....	A L B
Calgary.....	Calgary Brewing & Malting Co., Ltd.....	A
".....	Cross, A. E.....	A
Edmonton.....	Cairns, Thos.....	A
Lethbridge.....	Sifton, F.....	A

**MANITOBA AND NORTHWEST TERRITORIES**—CONTINUED.

Neepawa.....	Neepawa Brg. Co.....	A
Portage La Prairie.....	Bell, James.....	L
".....	Cairns, Thos.....	A P M
Prince Albert.....	Courtney, Joseph.....	A
Regina.....	Knight, W. G.....	A P L
South Edmonton.....	Brunelle, Wm.....	A L B
Winnepeg.....	Blackwood Bros.....	A P L B
".....	Drewry, Edw. L.....	A P L M B
".....	McDonough & Shea.....	A P L M B

**NEW BRUNSWICK.**

Fairville.....	Ready, James, Union and Peel st.....	A P L B
St. John.....	Jones, Simeon, 2 Caramarthan street.....	A P L

**NEW FOUNDLAND.**

St. Johns.....	Bennett, E. W. & Co.....	A P M B
".....	Lindberg, John.....	L M
".....	Newfoundland Br'g Co., Ltd....	A P

**NOVA SCOTIA.**

Dartmouth.....	Maritime Brewing & Malting Co., Ltd. (see Halifax).....	A B
Halifax.....	Dawes & Co. (see Montreal).....	A P M B
".....	Hayward, C. W. & Co.....	A B
".....	Keith, Alex & Son.....	A P M B
".....	Lindberg, John,.....	A L
".....	Maritime Brewing & Malting Co., Ltd.....	A P M C
".....	O'Mullin, P. and J., 16 Artz's Lane.....	A B
".....	Wickwire, W. M.....	A

**ONTARIO.**

Ashburnham.....	Calcutt, Henry.....	A L M
Auburn.....	Kuntz, Jacob.....	A L
Baden.....	Dantzer, L.....	L
Barrie.....	Anderton, W. A.....	A B
".....	Simpson, Arnall & Co.....	A M B
Belleville.....	Roy, Jas. A.....	A L M
Brantford.....	Bixel, M. & Son (see Strath- roy).....	L M B

For Key See Page 15.

**ONTARIO—CONTINUED.**

Brockville.....	Bowie & Co.....	A L M B
Carlsruhe.....	Schwahn, David.....	A L
Chesley.....	Schumacher, A.....	L
Chepstow.....	Graff, Peter.....	A L
Coburg.....	Macpherson, Gordon & Co....	A P M
Egmondvile.....	Colbert, Henry.....	A L
Formosa.....	Schwartz, John S .....	L M
Guelph .....	Holliday, Thos.....	A L M
" .....	Sleeman, Geo.....	A L B M
Hamilton.....	Gempf, John .....	L
" .....	Grant-Lottridge Brewing Co., Ltd.....	A L B M
Hornby.....	Kuntz, Henry .....	L
Kingston.....	Brain Bros.....	A
Lindsay.....	Stevenson, Thomas.....	A P L M B
Listowel.....	Haslam, Wm. H.....	A P B M
London.....	Roth, Robt. & Bro.....	A P L B
" .....	Carling Br'g & Malt'g Co..	A P L B M
" .....	Hamilton, Joseph .....	A P
" .....	Labatt, John .....	A P B M
March .....	Berry, William.....	A P
Neustadt.....	Heuther, Henry .....	L
New Hamburg .....	Rau, Mary.....	L
Orilla.....	Clarke, J. A. P.....	A P
Ottawa .....	Anderson,.....	A A P
" .....	Brading, H. F.....	A P
" .....	Ottawa Br'g & Malt'g Co..	A P L M
Owen Sound.....	Eaton Bros. Br'g Co., Ltd..	A P M B
" .....	Schwan Bros.....	L
Port Arthur.....	Gehl, C.....	A L
Port Colborne.....	Cronmiller, White.....	L B M
Port Hope.....	Ambrose Winslow Brewing & Malting Co., Ltd.....	A P M B
Portsmouth.....	Fisher, J. & W.....	A P M
Prescott.....	McCarthy, John & Son....	A P M
" .....	Prescott Br'g & Malt'g Co.	A P M B
Preston.....	Bernhardt, Peter, Son.....	L B M
" .....	Hummel, David .....	L B
St. Catherines.....	Taylor & Bate.....	A P L M B
St. Thomas.....	Rudolph & Begg.....	L B
Salem.....	Otterbein, C.....	A L B
" .....	Reuter, Geo .....	L
Salford.....	Martin, Joseph .....	A B
Sarnia.....	Lambton Brewing Co., P. Heuser, prop.....	A L

**ONTARIO—CONTINUED.**

Stratford.....	Devlin, Felix.....	A P
".....	Hergott Bros.....	L
Strathroy.....	Bixel Brewing & Malting Co. (also Brantford) .....	L B M
Tilsonburg.....	Luke, Joseph & Sons.....	A L
Toronto.....	Copland Br'g Co., Thos. B. Taylor, prop., 53 Parliament street .....	A P B
".....	Cosgrove Br'g & Malt'g Co., Ltd., 241 Niagara st.....	A L B M
".....	Davies Brewing & Malting Co., Limited.....	A P L B M
".....	Dominion Brewery Co., The, Ltd., Queen st., East...A P L B M	
".....	Korman, Ignatius & Co.....	L
".....	O'Keefe Brewing Co., Ltd., 18 Gould street.....	A P L B M
".....	Ontario Br'g & Malting Co., 218 King street East.....	A P B M
".....	Reinhardt & Co., Mark st.....	L B
".....	Taylor, T. B.....	A
".....	Toronto Brewing and Malting Co., Simcoe street .....	A B
Walkerton.....	Farquharsen & Granger.....	L
Walkerville.....	Bott, John.....	A M
".....	Walkerville Brewing Co.....	A L B
Waterloo.....	Bauer, Frank.....	L M
".....	Huether, C. & Sons.....	L M
Windsor.....	British-American Brewing Co. (Greisinger & Irion).....	L B
Woodstock.....	Bernhardt, Louis. ....	L B

**PRINCE EDWARD ISLAND.**

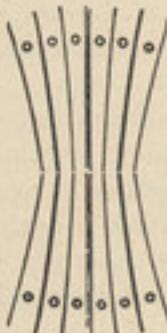
Charlottetown .....	Hyndman, C. A.....	A P M B
---------------------	--------------------	---------

**QUEBEC.**

Beauport.....	Beauport Brewing Co.....	A P L B
Joliette.....	Roy, Joseph .....	A
Lachine.....	Dawes & Co. (See Montreal).AP M B	
Montreal.....	Atkin, John, Ontario and Main streets.....	A P M
".....	Canadian Brewing Co.....	A
".....	Dawes & Co. (See Lachine)..A P M B	

**QUEBEC—CONTINUED.**

Montreal .....	Dow, Wm. & Co.....	A P M B
" .....	Ekers, H. A.....	A P L B
" .....	Langston Br'g Co .....	A B M
" .....	Molsen, John H. R. & Bros. A P M B	
" .....	Reinhardt, Geo. & Sons....A P M B	
" .....	Repentigny, A. de.....A B	
" .....	Star Brewing Co.....A P L B	
" .....	Strangman, Chas.....A M	
Quebec .....	Boswell Bros., Anchor Brew- ery, 8 St. Vallier street..A P B M	
" .....	Proteau & Carignan.....A P B	
" .....	Cote & Amyot.....A L M	



## BREWERIES IN MEXICO.

---

Guadalajara .....	Ohrner, Juan E.....	A L
Monterey.....	Schneider, Jos. M.....	L B
Mexico .....	Dreher, E. & Co.....	A
Orizaba.....	Vivanco Angel.....	A L B
Pueblo .....	Cerveceria Germania, Frederico Vogel.....	L
San Louis Potosi.....	Cerveceria de San Louis, John Schraud.....	A L
Toluca.....	Compania Cerveceria, Santiago Graf.....	A L B
Torreón (Coahuila).....	Wulff, Frederico.....	L

---

For Key See Page 15.

---

## HEADEN & McAULEY,

Manufacturers of

Brewers' Mash,  
Fermenting,  
Stock and Shaving Tubs.

112-118 East Indiana Street.

Cor. Franklin Street, North Side,

CHICAGO.

---

TELEPHONE, NORTH 244.

# MALTSTERS IN THE UNITED STATES.

(NOT BREWERS)

The firms given in this list are maltsters exclusively and do not brew. For brewers that are also *Maltsters* see the regular list of brewers, where they are designated by the letter "M."

## CALIFORNIA.

- Sacramento...Neubourg & Co., 1016, 1018 and 1020 5th st.  
 San Francisco.Chas. Bach, Pioneer and Union Malt  
     Houses, office 535 and 537 Sacramento st.  
     "....J. C. Bauer & Co., Empire Malt House,  
         418-424 Chestnut st., office 632 Saera-  
         mento st.  
     "....Krug & Zimmermann, New York Malt  
         House, 18th and Shotwell streets.  
     "....H. Zweig, South Park Malt House, 608-614  
         Brannan street, between 5th and 6th.

## COLORADO.

- Denver.....J. J. Lichter

## ILLINOIS.

- Chicago..Louis I. Aaron & Co., office 54, 14 Pacific ave.,  
     102d, 103d sts. and Ft. Wayne R. R., Chi-  
     cago; office, 901 Liberty st., Pittsburgh.  
     ".....Boynton & Co., Clybourn Place Bridge  
     ".....Geo. Bullen & Co., 332 Illinois st.  
     ".....Carden Malting Co., 16-24 Cherry st.  
     "....Chicago Malt and Grain Co., 53 W. Division st.  
     "....Chicago Pneumatic Malting Co., cor. Rockwell  
         and Harvard sts.; office 63 S. Clinton st.  
     ".....Levi Cook, 446 Hawthorne ave.  
     "....John P. Eck (estate of), 383 and 385 24th st.  
     ".....Falk, Wormser & Co., 231 Kinzie st.  
     ".....A. Greiner (estate of), 299 W. Superior st.  
     "....Hales & Curtis Malting Co., cor. Hickory ave.  
         and Bliss st., office 108 LaSalle st.  
     "....L. C. Huck Malting Co., Canal and 18th sts.  
     "....Thomas Lynch, Jr., cor. Schiller st. and Astor pl.  
     ".....H. W. Mestling, 112 and 114 Ohio st.

**ILLINOIS—CONTINUED.**

Chicago.....	J. H. Pank, 203 Gaff bldg.
" .. W. H. Purcell & Co., 26-34 Larrabee st., office 1107 Tacoma building, cor. Madison and LaSalle streets.	
" .. Rice & Bullen Malting Co., office 201 Royal Insurance building.	
" .. Albert Schwill & Co., office 53 Traders building, malt house and elevator 103d st. and Avenue C.	
" .. Watkins-Frets Co., Centre ave. and W. Superior st., office Royal Insurance building.	
" .. J. Weil Malting Co., 52d st. and Pan Handle Railroad; office, 303 Omaha building, 134 Van Buren st.	
" .. Geo. A. Weiss Malting and Elevator Co., 922 N. Ashland avenue.	
Harvard.....	A. Muntzenberger
Pekin.....	F. A. Valk Malting Co.
" ..	Ph. Herget
Peoria.....	S. Kelley, 1900-1902 N. Adams st.
" .. Peoria Malting Co., 1820-1826 S. Washington st.	

**IOWA.**

Davenport .....	Bosh Ryan Grain Co.
" ..	Davenport Malt and Grain Co.
" ..	Conrad Geise
" ..	D. Rothschild Grain Co.
" ..	North-Western Malting and Construction Co.
Dubuque .....	J. B. Rickets & Co.

**KENTUCKY**

Frankfort.....	Oscar Herancourt, Frankfort Malt House
Lexington.....	Joseph Luigart
Louisville.....	Louisville Malting Co., 1120 Rowan st.
" ..	Southern Malting Co., 1406-1412 Hamilton ave.

**MARYLAND**

Baltimore .....	Denmead Malting Co., West Falls avenue and Block street.
" ..	Solomon Straus, office 212 E. Lombard st.
Cumberland.....	W. Leonard, 296 N. Mechanic st.

**MICHIGAN**

Detroit.....	Canada Malt Co., 625 Fort st., West
" ..	Howard-Northwood Malt Mfg. Co., Grand River avenue and 17th street.

**MICHIGAN**—CONTINUED.

Detroit.....	H. W. Rickel, 238-240 Hastings st.
Marshall.....	Frank Brinkerhoff
Ypsilanti.....	F. J. Swayne

**MINNESOTA.**

Hastings.....	Hastings Malting Co.
Mankato.....	Mankato Malt and Grain Co.
St. Paul.....	Hauser & Sons Malting Co., 272 Jackson st.

**MISSOURI.**

St. Louis..Chas. Ehlerman Hop and Malt Co., 22d street and Scott avenue.
" ..Frank W. Feurbacher & Co., 2701-2705 South Broadway.
" .....Wm. Goerger, 2717 Singleton st.
" .....H. Griesedieck & Co., 1130-1134 S. 12th st.
" .....Henry Griesedieck, Jr., 1104-1110 Park ave.
" ..Chas. Hoppe & Son Malting Co.; main house and office, 8th street and Park avenue.
" .....Henry Kunz, 1313 Ann ave.
" ..Rudolph Schmidt Malting Co., 1122-1128 South 12th street.
" .....George Spieler & Co., 1542 S. 7th st.
" .....Wm. Stumpf, 906 Ann ave.
" ..Tinker & Smith Malting Co., office 32 and 34 South 17th street.

**MONTANA.**

Manhattan.....	The Manhattan Malting Co.
----------------	---------------------------

**NEBRASKA.**

Omaha.....	Gate City Malt Co., cor. 2d and Pine streets
------------	--

**NEW JERSEY,**

Newark..F. G. & I. N. Van Vliet, Passaic Malt House, Commercial Wharf, office 402 Produce Exchange Building, New York.
--

**NEW YORK.**

Adams.....	W. A. Waite & Sons
Albany.....	Jas. Kennah, 286 Sherman st.
" ..	R. Kirkpatrick, 417 State st.
" ..	James McCredie, 34 Clinton ave.
" ..	Story Bros., Broadway and Cherry st.
" ..Tillinghast & Co., 105 Montgomery st., also State street, corner Lark.	
" ..	Andrew G. White, 125 Hudson ave.

**NEW YORK—CONTINUED.**

Attica.....	Attica Malt House, F. E. Farnham
Auburn.....	G. S. Fanning
".....Miller & Kirby, malt houses at Weedsport, N.Y.	
".....E. B. Parmelet, 8 Barber st.	
Avon.....	Stephen Hosmer & Co.
Batavia.....	Craft & Caldwell, 61 Jackson st.
".....C. M. Warner, office Syracuse	
Bath.....	James Pool, 15 Cameron st.
Bath-on-the-Hudson.....	Andrew G. White, office 125 Hudson avenue, Albany.
Brooklyn.....	New York and Brooklyn Malting Co., Robling street, corner North 7th.
Buffalo.....	Julius Binz, 797-817 Broadway
".....J. P. Braner, 992 Michigan st.	
".....J. H. & R. Bullymore, 2212 Niagara st.	
".....C. G. Curtis (estate of), 41 Board of Trade bldg.	
".....Henry Diehl, 118 Goodell st.	
".....Fisher Bros. & Co., 283 W. Genesee st.	
".....Jno. Kam Malting Co., 377 E. Genesee st.	
".....Th. Kleinschmidt, 193 Pratt st.	
".....Kreiner & Lehr, 459-467 Spring street, near Broadway.	
".....C. H. McLaughlin, 2d street, nr. Mineral Spring road.	
".....John B. Manning & Sons, office White bldg.	
".....Henry C. Moffat, Mohawk and Morgan sts.	
".....Schaefer & Bro., office 178 Main st.	
".....Solomon Scheu, 61 and 62 Board of Trade bldg.	
".....C. G. Voltz, 1710 Niagara st.	
".....John M. Weigand, 943 Michigan st.	
".....Jacob Weppner, 983 Jefferson st.	
".....Joel Wheeler & Co., 283 Perry st.	
".....White & Crafts, corner Lake View avenue and Jersey street.	
Caledonia.....	Wm. Hamilton & Son
Canajoharie.....	E. L. Yates & Son
Cayuga.....	Aug. Dunkel
Charlotte.....	E. M. Upton
Clyde.....	Clyde Malting Co.
".....Geo. B. Greenway	
".....Chas. R. Kennedy	
".....A. H. Smith	
".....Smith & Topping	
".....T. P. Thorn & Sons	

**NEW YORK—CONTINUED.**

Clyde.....	Warner & McIntire
Elmira.....	Congdon, George, Market and State streets
Geneva.....	S. K. Nester
Illion.....	J. M. Dygert
Jordan.....	C. M. Warner, office Syracuse
Leroy.....	W. D. Matthews & Co.
Lockport.....	J. M. Moser, office 95 Broad st., New York
".....	Mrs. E. D. Norman
Lyons.....	Wm. Kreutzer, malt house, Port Gibson
".....	M. P. Mirick
".....	H. M. & C. E. Mirick
".....	S. Scott & Sons
Mohawk.....	The Mohawk Milling and Malting Co.
Mottville.....	Hunsiker & Stacey
Mount Morris.....	Livingston Malt House
Mumford.....	C. H. Swan
New York City.....	J. S. & W. Brown; office, room 122 Produce Exchange.
".....	Chas. C. Clausen, 71st and 72d streets and Avenue A.
".....	C. & L. Heidenheimer, office 13 Stone st.
".....	Neidlinger & Sons, 63d street and East River.
".....	J. M. Moser, 95 Broad st.
".....	Chas. A. Stadler, 306-316 East 61st st.
".....	Joseph Strouse & Son, 15-25 Whitehall st.
".....	Sutcliff, Walter, 38th st. and 1st ave.
".....	F. G. & I. N. Van Vliet, office 402 Produce Exchange building.
Oneida.....	Jas. G. Gregg, Lake st. and Madison ave.
".....	Stewart, Barton & Co.
Oswego.....	Thomas Gordon Malting Co.
".....	Lyon & Mott
".....	Ontario Malt House, Johnson & Lyon, proprietors, 1 E. Mohawk st.
".....	Oswego Malting Co., E. 9th street
".....	David Stevenson, office 10th ave. and 39th st., N. Y.
Palmyra.....	Downing & Wyckoff, North Side Main st.
".....	Parshall Sweeting, office Lyons
Penn Yan.....	Shearman, Lewis & Dwelle
Phelps.....	Oliver Crothers & Son
".....	John Q. Howe's Sons
Pittsford.....	W. & J. Agate
Port Gibson.....	Goldsmith Malting Co.

**NEW YORK—CONTINUED.**

Rochester	Parsons Malting Co., corner Brown and Warehouse streets
Schenectady	D. Roberts
Sodus Point	Parsons Malting Co.
Suspension Bridge	Maclem & Slater, Lewiston avenue
Syracuse	C. M. Warner, 340 W. Water street
Troy	Rebecca Hogben, 5th and Canal avenues
Waterloo	Cook & Sweet
Watkins	Lembeck & Betz
West Troy	Peter A. Rogers, 75 Whitehall st.

**OHIO.**

Cincinnati	Phil. Ammann, 26 Sycamore st.
"	P. Andrew & Co., 365 E. Front st.
"	Burger Bros., 344 Walnut st.
"	Robert A. Dykins & Co., 577-581 W. 5th st.
"	Elsas & Pritz, 13 and 15 Canal sts.
"	Herman Goepper & Co., Canal, Hunt and Sycamore streets
"	Lutterbey & Muhlhauser, 63 Harrison ave.
"	Michael Mueller, 77 McMicken ave.
"	G. & P. Renner, 153-171 Colerain ave.
"	Charles Schaefer, cor. Pearl and Pike sts.
"	Albert Schwill & Co., 184 McMicken ave.
Cleveland	J. H. Griffith & Co., Spruce, cor. Mulberry
"	J. B. Smith, office 40 and 42 River st.
"	M. M. Spangler, 28-30 Michigan st.
"	Wachsmann & Co., 37 Canal st.
Dayton	H. Fernedig & Son, 16 Kenton st.
Hamilton	H. P. Deucher & Co.
"	Hamilton Malting Co.
"	Schlosser & Co.
"	Sohngen Malting Co.
Piqua	Piqua Malt Co.
Toledo	Conrad Bolli, 517 Vance st.
"	Edw. Zumdrum, 726 Buffalo st.

**PENNSYLVANIA.**

Allegheny	Louis I. Aaron & Co., 12-20 Vinial st.; office 991 Liberty st., Pittsburgh, and No. 14 Pacific ave., Chicago.
"	Julius Geiselhardt, 499 Ohio st.
"	Joseph Weiss, 142 Chestnut st.
Easton	C. & F. Seitz, E. Ferry st., cor. Green
Erie	Jacob Weschler

**PENNSYLVANIA—CONTINUED.**

Mount Joy	The Philip Frank Malting Co.
Philadelphia	The Francis Perot's Sons Malting Co., 314 Vine street
"	George F. Schoch, 741 S. Front st.
"	V. C. Sweatman, 112 Callowhill st.
"	J. G. White & Co., 1422 N. 8th st.
Pittsburgh	Louis I. Aaron & Co., 901 Liberty st.
"	E. A. Graf, 35 National Bank bldg.
"	P. Keil & Son, 963 Liberty st.
"	J. Weil Malting Co., 1007 Penn ave.; malt house, Chicago.
Reading	Reading Malt Co.
York	W. H. Kurtz & Son

**WASHINGTON.**

Dayton	Jacob Weinhard
--------	----------------

**WISCONSIN.**

Appleton	Wisconsin Malt and Grain Co.
Burlington	M. P. Petrie & Co.
Fond du Lac	Fond du Lac Malt and Grain Co.
Jefferson Junction	Lytle-Stoppenbach Co.
Kenosha	M. H. Petit Malting Co.
Kewaskum	F. Rosenheimer Malt and Grain Co.
Manitowoc	Wm. Rahr's Sons
Mayville	Buerger Malting Co.
Milwaukee	Froedtert Bros. Grain and Malting Co.; office 518 Chestnut street.
"	Wm. Gerlach & Co., 8th and Chestnut sts.
"	The Hansen Hop and Malt Co.
"	Hottelet & Kamm, 57 Mitchell building
"	Kraus-Merkel Malting Co., South Water and Park streets
"	Louis Liebscher & Sons, 189-195 Sherman st.
"	Milwaukee Malt and Grain Co., 197 and 199 Oregon street.
"	Western Malting Co., cor. 3d and Sherman sts.
Plymouth	Schneider Bros.
Sheboygan	Konrad Schreier
Watertown	Wm. Buchheit Malting Co.
"	Wm. Hartig
West Bend	West Bend Brewing Co.

## MALTSTERS IN CANADA.

(NOT BREWERS.)

### ONTARIO.

Dundas.....	M. S. Wilson
" .....	J. J. Steele & Son
Galt.....	Adam Cranston
" .....	M. N. Todd
Guelph.....	W. W. White
Palmerston.....	L. H. Clarke & Co. (See Toronto)
Perth.....	John H. McLaren
" .....	Jas. Spalding
Prescott.....	P. John & Son
Toronto .....	L. H. Clarke & Co.
" .....	Gooderham & Worts
" .....	W. D. Matthews & Co.
" .....	Queen City Malting Co.
Walkerville.....	Hiram Walker & Sons

....Brewers' and Maltsters' Iron Work....

## W. TOEPPER & SONS.

MANUFACTURERS OF

## Toepfer's Dumping Kiln Floors,

(Over One Quarter Million Square Feet in Use.)

STATIONARY KILN FLOORS. PAT. LOADING SPOUTS.

ALL KINDS OF TANK AND SHEET IRON WORK.

76-88 Menomonee Street,

MILWAUKEE, WIS.

317435

LIST OF  
**BREWERS' SUPPLY DEALERS**  
—AND—  
**Auxiliary Manufacturing Trades.**

The AMERICAN BREWERS' REVIEW takes pleasure in giving here-with a carefully compiled list of the largest and most reliable firms dealing in Brewers' Supplies and manufacturing Brewers' Utensils, Apparatus, Machinery, etc.

**Advertising Novelties and Show Cards.**

Maryland Glass Etching Works.....	Cumberland, Md.
Tweed Williamson Co., 21 N. Green st.....	Chicago, Ill.
Taylor, A. V. & Co., 420 Central ave.....	Cincinnati, O.

**Aerators, (Systems of Cooling Apparatus.)**

DECKEBACH, F. C. SON'S CO.....	Cincinnati, O
Hildebrand, Phil.....	Philadelphia, Pa.
Newark Aerator Co.....	Newark, N. J.

**Anhydrous Sugar.**

CHICAGO SUGAR REFINING CO., Taylor st., Chicago, Ill.	
---	--

**Ammonia.**

Arctic Machine Mfg. Co.....	Cleveland, O.
De La Vergne Refr. Mach. Co.....	New York City
NATIONAL AMMONIA CO.....	St. Louis, Mo.
New York Coal Tar Chemical Co., 252 Broadway,	
.....	New York City
Powers & Weightman.....	Philadelphia, Pa.
SCHWENKER, W. M., 12-14 Cliff st.....	New York City
Watson, H. F. Co .....	Erie, Pa.

**Ammonia Bottles.**

Cardell, Jas. D. & Co.....	Philadelphia, Pa.
Harrisburgh Pipe Bending Co.....	Harrisburgh, Pa.

**Anti-Friction Metal and Journal Bearings.**

Flachman & Matthews, 808 N. 4th st.....	St. Louis, Mo.
Magnolia Metal Co., 74 Cortlandt st.....	New York City
Street, J. D. & Co.....	St. Louis, Mo.
Wertheim, Ed., 55 S. Canal st.....	Chicago, Ill

## Antiseptics.

BIDTEL CHEMICAL CO..... Milwaukee, Wis.  
 NORTH-WESTERN CHEMICAL CO.... Milwaukee, Wis.  
 Williamson, D. D. & Co., 14 Dey st..... New York City

## Architects and Engineers.

BEYER & RAUTERT, cor. Fifth avenue and  
 Randolph street..... Chicago, Ill.  
 Dobler, Chas., 244-248 W. 27th st..... New York City  
 Engelhardt, Theo., 905 Broadway..... Brooklyn, N. Y.  
 GRIESSE, WILHELM, ENGINEERING CO.,  
 Schiller bldg. .... Chicago, Ill.  
 Heidenreich Construction Co., 539 The Rookery  
 ..... Chicago, Ill.  
 Hooper, Irvin G., Market and Washington streets  
 ..... Newark, N. J.  
 JUNGENFELD, E. & CO., Wainwright bldg., St. Louis, Mo.  
 KAESTNER, CHAS. & CO., 241-249 S. Jefferson  
 street..... Chicago, Ill.  
 Kastner, J., 744 Broadway..... New York City  
 Kreiss & Stupp..... Reading, Pa.  
 LEHLE, LOUIS, Schiller bldg..... Chicago, Ill.  
 Lewandowski & Co., 21 Marine bldg..... Chicago, Ill.  
 Maritz, Aug. Co., 177 La Salle st..... Chicago, Ill.  
 Metzger, Geo. J., 19 W. Huron st..... Buffalo, N. Y.  
 OBERLEIN, LOUIS, formerly Lederle & Co.,  
 R. 77, 15-25 Whitehall st..... New York City  
 Parsons, J. D. & Son, 26th and Poplar streets  
 ..... Philadelphia, Pa.  
 Pearce, Frank & Co., 137 S. Clinton st.... Chicago, Ill.  
 Peuckert, Kurt W., 1411 Filbert st..... Philadelphia, Pa.  
 Seckner Contracting Co., 1231-1233 Unity bldg. Chicago, Ill.  
 Simpson & Robinson Co., 71-72 Commerce bldg. Chicago, Ill.  
 Staehlin, Gustavus, Market and Washington  
 streets..... Newark, N. J.  
 TERNEY, C. F., 136 Liberty st..... New York City  
 Trotsche, Carl, cor. Reed street, National avenue  
 ..... Milwaukee, Wis.  
 WAGNER, A. C., 514 Walnut st..... Philadelphia, Pa.  
 Wolf, Otto C., cor. Broad and Arch sts. Philadelphia, Pa.  
 WOLF, FRED. W. CO., 139-141 Rees st..... Chicago, Ill.  
 Wunder, Fred., 99 Broadway..... Brooklyn, N. Y.  
 Wyss-Thalmann, V., 425-427 Bissel bldg. Pittsburgh, Pa.

Artesian Well Locating.

Schnee, Alex. E., 253 Broadway..... New York City  
 Miller, J. P., Michigan st..... Chicago, Ill.

**Artesian Well Supplies.**

- American Wheel Works..... Aurora, Ill.  
 Cook, A. D..... Lawrenceburg, Ind.  
 Minnesota Engine Works, Fifth and Washington  
 streets..... St. Paul, Minn.  
 Mundt, Chas. & Sons, 88-90 Walker st..... New York City

**"Asbestine" Paint.**

- Hinchman & Lockwood, 90 Shelby st..... Detroit, Mich.

**Asbestos Goods.**

- Wertheim, Ed., 55 S. Canal st..... Chicago, Ill.

**Asphalt and Cement Paving and Roofing.**

- Aberthau Co., 12 Pearl st..... Boston, Mass.  
 Acme Paving Co., 408-420 W. State st..... Columbus, O.  
 Chichizzola, Paul, 77 S. Fifth ave..... New York City  
 Ford Roofing Co., 306 Teutonia bldg..... Chicago, Ill.  
**GILSONITE ROOFING AND PAVING CO.,**  
 Wainright bldg..... St. Louis, Mo.  
 Jenner, F. J., 26 Courtland st..... Chicago, Ill.  
 Koop, John A..... Milwaukee, Wis.  
 Kramer, Herm., 177 Clinton st..... Buffalo, N. Y.  
 Osborn, S. J., jr. & Co., Pearl and Eggleston  
 aves..... Cincinnati, O.  
**SCHILLINGER BROS.**..... Chicago, Ill.  
 Sicilian Asphalt Paving Co., Times bldg. New York City  
 Stamsen, Jos. & Co., 2 Metropolitan block. Chicago, Ill.  
 Warren Chemical & Mfg. Co., 88 Fulton st., New York City

**Automatic Safety Devices.**

- Wagner & Marr, 416 N. Howard st..... Baltimore, Md.

**Axle Grease.**

- Flachman & Mathews, 808 N. 4th st..... St. Louis, Mo.  
 Miller Bros., Emerald and Taylor sts. Philadelphia, Pa.  
 Zobel, Ernst., 112-116 2nd ave..... South Brooklyn, N. Y.

**Babbitt Metal.**

- Eastwood Wire Mfg. Co..... Belleville, N. J.  
 Street, J. D. & Co..... St. Louis, Mo.

**Back Pressure Valves.**

- Beckerley, J. G., Quincy and Franklin sts. Chicago, Ill.

**Bags.**

- Johnston, W. J., 182 Jackson st..... Chicago, Ill.  
 Kurtz Bag Co., 7-9 Water st..... New York City

**Barley.**

Bartlett, L. & Son, 23 Chamber of Commerce bldg.....	Milwaukee, Wis.
Berger-Crittendon Co., 49 Chamber of Commerce bldg.....	Milwaukee, Wis.
Blumenthal, Max, 97 Kemble bld.....	New York City
Brooke, F. M & H., 18-19 Chamber of Commerce bldg.....	Philadelphia, Pa.
Busch, E. A., 108 S. Main st.....	St. Louis, Mo.
Chicago O'Neil Co., 79 Board of Trade.....	Chicago, Ill.
CHICAGO PNEUMATIC MALTING CO., Rock- well and Harvard sts.....	Chicago, Ill.
Coffee, L. & Co.....	Toronto, Ont., Canada
Deuscher, H. P. & Co.....	Hamilton, O.
ELKINS, GEO. W. & CO., 148 N. Front st., .....	Philadelphia, Pa.
FALK, WORMSER & CO., 231 E. Kinzie st...Chicago, Ill.	
Fountain, W. H., 1036 Penn ave.....	Pittsburgh, Pa.
Froedtert Bros., Grain and Mltg. Co., 518 Chest- nut st.....	Milwaukee, Wis.
Gerstenberg & Kroeschell, 34 & 35 Trades bldg. .....	Chicago, Ill.
Gottlieb, W. B., 14-20 Whitehall st.....	New York City
Graff, Edwin A., 35 Second National Bank bldg. .....	Pittsburgh, Pa.
Greiner, A., Center ave. and W. Supeior st., Chicago, Ill.	
Hill Co., Thomas, 25 Griswold st.....	Detroit, Mich.
Hotchkiss, Eug., & Son, 67 Mitchell bldg., Milwaukee, Wis.	
Hottelet & Kamm, 58-60 Mitchell bldg., Milwaukee, Wis.	
Irwin, W. H., 124 Produce Exchange.....	New York City
Irwin, Robert Easton, Produce Exchange Annex, New York City and 402 Rialto bldg.....	Chicago, Ill.
Kraus, F. & Co., So. Water and Park sts., Milwaukee, Wis.	
Kunne, F. G., Produce Exchange Annex, New York City, and 402 Rialto bldg.....	Chicago, Ill.
Kune, Julian, 402 Rialto bldg.....	Chicago, Ill.
Lambrecht, Geo. A., 310 E. 57th st.....	New York City
Lutz, F. F.....	Louisville, Ky.
MAGNUS SONS., A, 244 E. Randolph st.....	Chicago, Ill.
Mohr Holstein Commission Co., 30-31 Chamber of Commerce.....	Milwaukee, Wis.
Mueller, H. & Co., R. 42, 2-4 Sherman st.....	Chicago, Ill.
Nester, S. K.....	Geneva, N. Y.
O'Neil, H. J., Grain Co .....	Winona, Minn.
Pank, J. H., 203 Gaff Bldg .....	Chicago, Il

**Barley—Continued.**

Piqua Malt Co., The.....	Piqua, O.
PURCELL, THE W. H., CO., 1107 Tacoma bldg.,	
.....	Chicago, Ill.
RICE & BULLEN MALTING CO.....	Chicago, Ill.
Rickel & Co., H. W.....	Detroit, Mich.
Roberts, W. F.....	Boston, Mass.
Rosenheimer, L., Malt & Grain Co.....	Kewaskum, Wis.
Smith, J. B., Malting Co., 40 River St.....	Cleveland, O.
SOMMERS, OTTO A. & CO., 114 Franklin st.,	
.....	Chicago, Ill.
Spann & Chandler, 27 Board of Trade bldg..	Buffalo, N.Y.
Stroebel, J. M., 15-25 Whitehall st.....	New York City
Townsend, F. M., 136 Reade st.....	New York City
Turle, R. H. & Co., 352 Produce Exchange.	New York City
Van Slyke, W. A. & Co., 316 Sibley st.....	St. Paul, Minn.
Von Graberg, F., 40 Whitehall st.....	New York City
Ward, Raymond L., 59 Broad st.....	New York City
Warner, Chas. M.....	Syracuse, N. Y.
Waterman, M.&Co., 314 California st..	San Francisco, Cal.
Weiss, Geo. A., Malting & Elevator Co., 922 N.	
Ashland ave .....	Chicago, Ill.

**Barley and Malt Cleaning Machinery.**

Barnard & Leas Mfg. Co.....	Moline, Ill.
Dobler, Chas., 244-248 West 27th st.....	New York City
Howes, S.....	Silver Creek, N. Y.
Hughes Mfg. Co.....	Hamilton, O.
Huntley, C.....	Silver Creek, N. Y.
KAESTNER, CHAS. & CO., 241-249 Jefferson st.,	
.....	Chicago, Ill.
King, J. M. & Son.....	Rochester, Minn.
Laidlaw, A. & Co....	Toronto, Canada, and Cleveland, O.
OLSEN & TILGNER, 37-39 Ontario st.....	Chicago, Ill.
Parsons, J. D. & Son, Twenty-sixth and Poplar	
st.....	Philadelphia, Pa.
Prinz & Rau Mfg. Co.....	Milwaukee, Wis.
RILLING, CHAS., 518-522 West 35th st...	New York City
Schultz Mfg. Co., 9-13 Dayton ave.....	Cincinnati, O.
Turner, Vaughn & Taylor Co.....	Cuyahoga Falls, O.

**Barley and Malt Screens.**

Clinton Wire Cloth Co., 137 Lake st.....	Chicago, Ill.
Harrington & King Perforating Co., 224-240 N.	
Union st.....	Chicago, Ill.
Scheeler & Sons, 320 Terrace.....	Buffalo, N. Y.

**Barley Sprouts.**

Mueller, E. P., 54 Calumet bldg ..... Chicago, Ill.

**Barometers, Hydrometers, Etc.**

RICHARDS & CO., 108 Lake st. .... Chicago, Ill.

SARGENT, E. H. & CO., 108 Wabash ave....Chicago, Ill.

SEIPEL, JOHN, 90-92 Park Row.....New York City

Stieren, W. E., 544 Smithfield st.....Pittsburg, Pa.

**Beer Boxes.**

Dietz, Fred..... Indianapolis, Ind.

Wilson & Sons, Geo..... Toledo, O.

**Beer Bottles.**

Barothy, The Victor Bottlers' Supply Co., 409

Dearborn st. .... Chicago, Ill.

Busch, Adolphus Glass Mfg. Co. .... St. Louis, Mo.

Busch, E. A. & Co. .... St. Louis, Mo.

Chicago Consolidated Bottling Co., 14-18 Charles

place. .... Chicago, Ill.

Franzen, Wm., 537-539 River st. .... Milwaukee, Wis.

Koch & Roberston, 50 Bergen st. .... Brooklyn, N. Y.

Massillon Glass Works ..... Massillon, O.

Milwaukee Improved Bottle Co., 162 Reed street,

..... Milwaukee, Wis.

North Baltimore Bottle Glass Co. .... N. Baltimore, O.

Northcote, R., 29 Church st. .... Toronto, Ont., Canada

Ottawa Bottle and Flint Glass Co. .... Ottawa, Ill.

Streator Bottle and Glass Co. .... Streator, Ill.

Twitchell, S., 221 Vine st. .... Philadelphia, Pa.

YAWMAN & ERBE. .... Rochester, N. Y.

**Beer Coloring.**

Beggs, E. J. & Co., 105 John st. .... New York City

EMKEN CHEMICAL CO., 137 Roosevelt st.,

..... New York City

Gelien & Co., 155 Maiden Lane. .... New York City

Sethness Chemical Co., 262 N. Curtis st. .... Chicago, Ill.

Western Chemical Specialty Co., 10-12 River st.,

..... Chicago, Ill.

Williamson, D. D. & Co., 14 Dey st. .... New York City

**Beer Filters.**

GERMAN AMERICAN FILTER CO., 69 Broad  
street. .... New York City

HEYMAN, N. H., 38 E. 59th st. .... New York City

LOEW FILTER CO., 394 Erie st. .... Cleveland, O.

NATIONAL FILTER AND CARBONATING CO. ....

REISINGER, HUGO, 38 Beaver st. .... New York City

Werner, A., 52 Warren st. .... New York City

**Beer Pumps.**

BERNER-MAYER CO., 83 Lake st.....	Cleveland, O.
BISHOP & BABCOCK CO., Kirtland & Hamilton st., Cleveland, O., 199 E. Washington street,	
Chicago, and.....	152 Centre st., New York
CLEVELAND FAUCET CO., 21-27 Franklin st., Cleveland, O., and 92 Franklin st.....	Chicago, Ill.
GRIFFITHS, NIEDERMAYER & McGUCKIN, 1015 Christian street.....	Philadelphia, Pa.
LIQUID CARBONIC ACID MFG. CO., 437 Illinois st., Chicago, Ill., 3427 Bernard st., St. Louis, Mo., Benvenue Station P. R. R.....	Pittsburg, Pa.
McLean Air Pump & Machine Co., 27 Center st., .....	New York

**Beer Steins and Mugs.**

Central N. Y. Pottery.....	Utica, N. Y.
Loewe & Diercks, 66 Park Place.....	New York

**Belting, Chain, Etc.**

Boston Belting Co., 256-260 Devonshire st..	Boston, Mass.
Caldwell, H. W. and Son Co., 127-133 W. Wash- ington st.....	Chicago, Ill.
Flachman & Matthews, 808 N. 4th st.....	St. Louis, Mo.
Heim Belting Co., 29 Ferry st.....	New York City
Jeffrey Mfg. Co.....	Columbus, O.
Main Belting Co.....	Chicago and Philadelphia
Mey, F. H. C.....	Buffalo, N. Y.
SCHWENKER, W. M., 12-14 Cliff st.....	New York City
Zoller, Chas., 12 Water st.....	New York City

**Belting (Rubber).**

Boston Belting Co., 256-260 Devonshire st..	Boston, Mass.
---	---------------

**Bicarbonate of Soda.**

Zoller, Chas., 12 Water st.....	New York City
---------------------------------	---------------

**Bisulphite of Lime.**

Beggs, E. J. & Co., 105 John st.....	New York City
Gelien & Co., 155 Maiden Lane .....	New York City
Miller Bros., Emerald and Taylor sts..	Philadelphia, Pa.
Williamson, D. D. & Co., 14 Dey st.....	New York City

**Black Enamel.**

Standard Paint Co., 186 5th ave.....	Chicago, Ill.
--------------------------------------	---------------

**Blowers.**

Sturtevant, B. F., Co., 16 S. Canal st.....	Chicago, Ill.
---	---------------

**Bock Beer Signs.**

Achert, Fred., Co., 303 W. Third st.....	Cincinnati, O.
Rode & Brand, 10 Barclay st.....	New York City
Schile, H. & Sons, 269 Bowery.....	New York City
Wagner, Louis C. & Co, 79-81 Duane st....	New York City

**Boiler Cleaners.**

Binks, Jos., 203-205 Van Buren st.....	Chicago, Ill.
Jones, H. W.....	Brooklyn, N. Y.
Peteseh Boiler Cleaner.....	Chicago, Ill.
Whitmore-Dean Manufacturing Co., 1434 Monad-	

nock block..... Chicago, Ill.

**Boiler Compound Injector.**

Blatz, L., Brass Works, 103-107 W. Monroe st.	
	New York City

**Boiler Compounds.**

Acme Chemical Mfg. Co., 79 Larrabee st.....	Chicago, Ill.
American Chemical Co., 68 Broad st.....	New York City
Blatz, L., Brass Works, 103—107 W. Monroe st.	
	New York City
Cherry Chemical Co.....	Philadelphia, Pa.
Improved Vegetable Boiler Compound Co., 95	
Hartford Bldg.....	Chicago, Ill.
Lion Vegetable Boiler Compound Co., 103 So.	
Canal st.....	Chicago, Ill.
Lord, Hy. W.....	Baltimore, Md.
NATIONAL CHEMICAL WORKS, Station 'G',	
	Chicago, Ill.
National Mfg. Co.....	Columbus, O.
Painter & Co .....	Olean, N. Y.
PROGRESS SPECIALTY CO., 103 State st..	Chicago, Ill.
Rae, F. B. & Company, 16 State st.....	Rochester, N. Y.
Vegetable Boiler Compound Co., 65 Broad st..	Utica, N. Y.
Warley, Thos. C. & Co., 11 S. 9th st....	Philadelphia, Pa.
Wilson-Clarke Co., Chicago, Cleveland, Mil-	
waukee, Philadelphia, Pittsburgh, New	
York.....	San Francisco

**Boiler Flue and Tube Scraper.**

Gilmore Tube Scraper Co.....	Buffalo, N. Y.
------------------------------	----------------

**Boilers.**

Adams Boiler Co.....	Cleveland, O.
Aultman & Taylor Mach. Co.....	Mansfield, O.
Brownell & Co.....	Dayton, O.
Clonbrook Steam Boiler Co.....	Brooklyn, N. Y.

**Boilers—Continued.**

Connelly, D. & Co.....	Cleveland, O.
Freeman, S. & Sons, Mfg. Co.....	Racine, Wis.
FRITSCH MFG. CO., THE FRANCIS, McMicken ave., Dunlap and Stark sts.....	Cincinnati, O.
Greenfield, W. G. & G.....	East Newark, N. J.
Huettemann & Cramer Co., 12—16 Sherman st. .....	Detroit, Mich.
Kroeschell Bros., 41—55 E. Erie st.....	Chicago, Ill.
Munroe, R. & Son, 23d and Smallman sts..	Pittsburg, Pa.
Scaife, W. B. T. Sons, 119 1st ave.....	Pittsburg, Pa.
Scannel & Wholey.....	Lowell, Mass.
Skinner Engine Co.....	Erie, Pa.
SULZER-VOGT MACHINE CO.....	Louisville, Ky.
Vogt, Henry & Bros., Mfg. Co., 7—11 Kent ave. .....	Brooklyn, N. Y.
Wheeler Boiler Co., 39—41 Cortlandt st....	New York City
WOLF, FRED. W. CO.....	Chicago, Ill.

**Boiler Setters.**

McMillian, Jas. & Co., 47 W. Washington st., Chicago, Ill.

**Bottle Caps and Cork Retainers.**

Aluminum Stopper Co.....	Baltimore, Md.
Barothy, The Victor, Bottlers' Supply Co., 409 Dearborn st.....	Chicago, Ill.
Bernardin Bottle Cap Co.....	Evansville, Ind.
Chicago Car Seal and Mfg. Co., Kinzie and Green streets.....	Chicago, Ill.
Dreyfuss Bottle and Stopper Co., 46 W. Broadway .....	New York City
Milwaukee Improved Bottle Co., 162 Reed street .....	Milwaukee, Wis.
Wittemann Bros.....	Chicago and New York

**Bottle Caps and Tin Foil.**

Barothy, The Victor, Bottlers' Supply Co., 409 Dearborn st.....	Chicago, Ill.
Bernardin, Bottle Cap Co.....	Evansville, Ind.
Chicago Car Seal and Mfg. Co., Kinzie and Green streets.....	Chicago, Ill.
Crown Cork and Seal Co., 500—506 E. Monument street.....	Baltimore, Md.
Hutchinson, W. H. & Sons, 166 Duane st..	New York City
Hutter, Karl, 34 Reade st.....	New York City
Wittemann Bros.....	New York and Chicago

**Bottlers' Machinery.**

Buchheit & Hasemann, 739 S. 2nd st.....	St. Louis, Mo.
Chicago Consolidated Bottling Co.....	Chicago, Ill.
Ermold, E., 652-654 Hudson st.....	New York City
Haggenmiller, Otto, 827 N. 4th st.....	Philadelphia, Pa.
HANSON & TUNELINS, 232 S. Clinton st...Chicago, Ill.	
HEINSDORF, E. O. & CO., Teutonic Bldg...Chicago, Ill.	
Seibel-Suessdorf Copper and Iron Mfg. Co., 2nd and Lombard sts.....	St. Louis, Mo.
Stahl, Emil & Co., 10 Barclay st.....	New York City
VILTER MFG. CO.....	Milwaukee, Wis.
Werner, Aug., 52 Warren st.....	New York City
WIEDEMANN, GEO., JR.....	Newport, Ky.
YAWMANN & ERBE.....	Rochester, N. Y.

**Bottlers' Supplies.**

Armstrong Cork Co.....	Pittsburg, Lancaster, Pa., New York City, Brooklyn, Chicago, St. Louis
Armstrong-Gilbert Cork Co., 23 S. 4th st...St. Louis, Mo.	
Barothy, The Victor, Bottlers' Supply Co., 409 Dearborn st.....	Chicago, Ill.
Bain, Donald, 557 Main st.....	Buffalo, N. Y.
Bauer, J. C. & Co., 632 Sacramento st. San Francisco, Cal.	
Canfield, H. O.....	Bridgeport, Conn.
Chicago Car Seal and Mfg. Co., Kinzie and Green streets.....	Chicago, Ill.
Chicago Consolidated Bottling Co., 14-18 Charles place.....	Chicago, Ill.
Crown Cork and Seal Co.....	Baltimore, Md.
Dietz, F.....	Indianapolis, Ind.
Dreyfuss Bottle and Stopper Co., 46 Broadway .....	New York City
EHLMANN, CHAS., HOP & MALT CO., St. Louis, Mo.	
Everett Glass Co.....	Everett, Pa.
Fountain, W. H., 1036 Penn ave.....	Pittsburg, Pa.
Goepper, Herm. & Co., 20-26 E. Canal st...Cincinnati, O.	
GOLDMAN, E. & CO., 12 and 14 River st....Chicago, Ill.	
Herman & Co. 309-311 Sacramento st..San Francisco, Cal.	
Hilo, C. L.....	Cincinnati, O.
Hoyt Bros. & Co., W. H.....	Lynn, Mass.
Hutter, Karl, 34 Reade st.....	New York City
Hutchinson & Son, W. H....Chicago and New York City	
Klein, Cohn & Hurtig.....	Cincinnati, O.
Kiewert, Chas. L. & Co.....	Milwaukee, Wis.
MEYER SUPPLY CO., 22 S. Main st.....	St. Louis, Mo.
Milwaukee Improved Bottle Co., 162 Reed street .....	Milwaukee, Wis.

**Bottlers' Supplies—Continued.**

Milwaukee Lithographing and Engraving Co.,	Milwaukee, W. Is.
Neuburg & Co., 1016-1020 5th st.....	Sacramento, Cal.
North Baltimore Bottle Glass Co.....	N. Baltimore, O.
SCHWENKER, W. M., 12 and 14 Cliff st... New York City	New York City
Sherwood Bros .....	New Brighton, Pa.
Sommer's Sohn, John.....	Newark, N. J.
Stahl & Co., Emil, 10 Barclay st.....	New York City
Truslow & Co., 4 and 6 Platt st.....	New York City
Valley Iron Works.....	Williamsport, Pa.
VILTER MANUFACTURING CO.....	Milwaukee, Wis.
WIEDEMANN, GEORGE, JR.....	Newport, Ky.
Wittemann Bros .....	New York City and Chicago, Ill.
YAWMAN & ERBE.....	Rochester, N. Y.

**Bottle Washing Machines.**

Barothy, The Victor, Bottlers Sup. Co., 409 Dearborn st.....	Chicago, Ill.
Buchheit & Hasemann, 739-741 S. 2nd st...St. Louis, Mo.	
Haggenmiller, Otto, 827 N. 4th st.....	Philadelphia, Pa.
HANSON & TUNELIUS, 232 S. Clinton st...Chicago, Ill.	
Hoyt Bros. & Co .....	Lynn, Mass.
Koethe, Hy., 3532 S. 2nd st.....	St. Louis, Mo.
VILTER MANUFACTURING CO.....	Milwaukee, Wis.
YAWMAN & ERBE.....	Rochester, N. Y.

**Bottle Wires.**

Illig & Hartmann, 211 Pine st.....	St. Louis, Mo.
YAWMAN & ERBE.....	Rochester, N. Y.

**Bottle Wrappers.**

Barothy, The Victor, Bottlers Sup. Co., 409 Dearborn st.....	Chicago, Ill.
Bowen, E., 236 Walnut st.....	Cincinnati, O.
Yocum & Kacer Mfg. Co., 5th and Allen aves.....	St. Louis, Mo.

**Box Fasteners.**

Dietz, Fred.....	Indianapolis, Ind.
Wilson, Geo. & Sons.....	Toledo, O.

**Box Printing Dies.**

Illig & Hartmann, 211 Pine st.....	St. Louis, Mo.
------------------------------------	----------------

**Branding Machines.**

Eureka Machine Co., foot of Queen st.....	Cleveland, O.
Gerlach, Peter & Co.....	Cleveland, O.
Illig & Hartmann, 211 Pine st.....	St. Louis, Mo.

**Brass and Copper (Perforated).**

Harrington & King Perforating Co., 224-240 N.  
Union st.....Chicago, Ill.

**Brass Tubes.**

Benedict & Burnham Mfg. Co.....Waterbury, Conn.  
Randolph & Clowes.....Waterbury, Conn.

**Brass Work.**

American Copper, Brass and Iron Works, corner  
• La Salle ave. and Michigan sts.....Chicago, Ill.  
Cleveland Beer Pump & Supply Co., 948-961 Ham-  
ilton st.....Cleveland, O.  
Dauernheim & Dupfer, 216 Locust st.....St. Louis, Mo.  
DECKEBACH, F. C. SONS CO., 167-171 Court st.,  
.....Cincinnati, O.  
GOETZ & BRADA MFG. CO.....Chicago, Ill.  
Irlbacker & Davis, 529-531 Main st.....Buffalo, N. Y.  
KAST COPPER & SHEET IRON MFG. CO., Buffalo, N.Y.  
McKenna, A. & T., 82 and 84 Third ave....Pittsburg, Pa.  
NORTHWESTERN COPPER & BRASS WORKS,  
.....St. Paul, Minn.  
Otto, Geo. F., 207-213 Buttonwood st...Philadelphia, Pa.  
POSCH, JOS., 59 Third st.....St. Paul, Minn.  
REISERT & ORTH, 181 Prince street and 122  
Sullivan street.....New York City  
ROOS, AUG. & SONS, 232 West 27th st....New York City  
Schaefer, Emil, 1320-1322 N. 5th st.....Philadelphia, Pa.  
Seibel-Suessdorf Copper & Iron Mfg. Co... St. Louis, Mo.  
Vulcan Brass Co., 948-962 Hamilton st.....Cleveland, O.  
Weissleder, H., 814 Winnebago st.....Milwaukee, Wis.

**Brewers' Books.**

Stimis & Eastman.....Syracuse, N. Y.

**Brewers' Brands.**

Detroit Rubber Stamp Co.....Detroit, Mich.  
Schoolfield, R. J., 192 Front st.....New York City

**Brewers' Calendars.**

Rode & Brand, 10 Barclay st.....New York City  
Schile, H. & Sons, 269 Bowery.....New York City  
Wagner, Louis C. & Co., 79-81 Duane st... New York City

**Brewers' Grains.**

Hottelet & Kamm, 58-60 Mitchell bldg.. Milwaukee, Wis.  
Mueller, E. P., 198 La Salle st.....Chicago, Ill.  
ST. LOUIS DRIED GRAIN CO.,.....St. Louis, Mo.

**Brewers' Instruments.**

RICHARDS & CO. (Ltd.) New York City and Chicago, Ill.  
SARGENT, E. H. & CO., 108 Wabash ave....Chicago, Ill.

**Brewers' Shellac.**

Thurston, F. W. & Co., 29-31 River st.....Chicago, Ill.

**Brewers' Supplies.**

Armstrong Cork Co., Pittsburgh, Lancaster,  
Pa., New York City, Brooklyn, Chicago, St. Louis.  
Armstrong-Gilbert Cork Co., 23 S. 4th st...St. Louis, Mo.  
Bain, Donald, 557 Main st.....Buffalo, N. Y.  
Bauer, J. C. & Co., 632 Sacramento st..San Francisco, Cal.  
Beggs, E. J. & Co., 101 Beekman st.....New York City  
Bernardin Bottle Cap Co.....Evansville, Ind.  
Bolte, Aug., 47 Colborne st.....Toronto, Ont., Canada  
Burger Bros., 344 Walnut st.....Cincinnati, O.  
Busch, E. A. & Co., 108 So. Main st.....St. Louis, Mo.  
Chicago Car Seal and Mfg. Co., Kinzie and  
Green sts.. .....Chicago, Ill.

CLEVELAND BEER PUMP AND SUPPLY CO.,  
946-962 Hamilton st.....Cleveland, O.  
Cleveland Brewers' Supply Co., 321 Pearl st.,Cleveland, O.  
Dole Bros., Co.....Boston, Mass.

EHLMERMAN, CHAS., HOP AND MALT CO.,  
.....St. Louis, Mo.  
Ensline, S. M. & Co., 158 N. Water st...Philadelphia, Pa.  
FALK, WORMSER & CO., 231 E. Kinzie st...Chicago, Ill.  
Fountain, W. H. 1036 Penn ave.....Pittsburgh, Pa.  
Goepper, Herm. & Co., 22-26 E. Canal st....Cincinnati, O.  
GOLDMANN, E. & CO., 10-12 River st ....Chicago, Ill.  
Hauser Sons Malting Co.....St. Paul, Minn.  
Haberstroh, Ph. L., 555 Washington st....Buffalo, N. Y.  
HEINSDORF, E. O. & CO., 1006 Teutonic bldg.,

.....Chicago, Ill.  
Herrman & Co., 309 Sacramento ave., San Francisco, Cal.  
HEYMAN, N. H., 438 E. 59th st .....New York City  
HEYMAN & FISCHER, 32 Stone st.....New York City  
HIRSCH & SCHOFIELD, 48-50 Pearl st...New York City  
Kiewert, Chas. L. & Co.....Milwaukee, Wis.  
KITZ, JOSEPH, 329 Jefferson st.....Hoboken, N. J.  
Lambrecht, Geo. A., 407 E. 55th st.....New York City  
Lutz, F. F. .....Louisville, Ky.  
Maynz & Co., 83 Spring st.....New York City  
Magnus Sons, A., 244 E. Randolph st.....MChicago, Ill.  
Mann, Ernst G., Supply Co., 121 Liberty st.,New York City  
Meyer, Chas. E. & Co., 137 Roosevelt st...New York City

## Brewers' Supplies—Continued.

MEYER SUPPLY CO., 22 S. Main st.....	St. Louis, Mo.
Miller Bros., Emerald and Taylor sts...	Philadelphia, Pa.
Miller & Co., J. H. and J. W.....	New York City
Mueller, Peter, 135 W. 127th st.....	New York City
Neubourg & Co., 1016-1020 5th st.....	New York City
Northcote, R., 29 Church st.....	Toronto, Ont., Canada
OETERS, J. C., 1242 N. 31st st.....	Philadelphia, Pa.
Pank, J. H., 203 Gaff bldg.....	Chicago, Ill.
Parker, R. H. & Co., 32 Central st.....	Boston, Mass.
Porgas & Co., 45 Pearl st.....	New York City
Patterson, C. J., 133 Rialto bldg.....	Chicago, Ill.
REISINGER, HUGO, 38 Beaver st.....	New York City
Schwartz, F., 41 S. William st.....	New York City
SCHWENKER, W. M., 12-14 Cliff st.....	New York City
SOMMER, O. A. & CO., 114 Franklin st.....	Chicago, Ill.
Sommer's Sons, John, 335-465 Central ave., Newark, N. J.	
Spangler, M. M.....	Cleveland, O.
TORCHIANI, H., 43-45 Centre st.....	New York City
Truslow & Co., 219 Pearl st.....	New York City
Uhlmann, Oscar, 11 Stone st.....	New York City
U. S. BUNG MFG. CO.....	Cincinnati, O.
Vulcan Brass Co., 948-962 Hamilton st.....	Cleveland, O.
Watkins, Fretts & Co., 169 Jackson st.....	Chicago, Ill.
Wertheim, Ed., 55 S. Canal st.....	Chicago, Ill.
Williamson, D. D. & Co., 14 Dey st.....	New York City
Weidner, Paul, 350 Gratiot ave.....	Detroit, Mich.
Wolff, N. & Sons, 359 Walnut st.....	Cincinnati, O.
Winship Mfg. Co.....	Racine, Wis.
Wolkenstein, L., 352 E. 21st st.....	New York City
ZEMENTINE MFG. WORKS, 1232 N. 31st st.,	
	Philadelphia, Pa.
Zinsser, Wm. & Co.....	New York City
Zobel, Ernst.....	Brooklyn, N. Y.
Zoller, Chas., 12 Water st.....	New York City

## Brewing Academies.

WAHL &amp; HENIUS, So. Water and Lake sts., Chicago, Ill.

## Brewing Process (Patent).

BILLINGS, A. W., 42, 137 Broadway.....	New York City
Brewing Improvement Co., 132-138 Mulberry street.....	New York City
Hildenbrand, Phil.....	Philadelphia, Pa.
HIRSH & SCHOFIELD, Pearl st.....	New York City
Kreusler, A., 14-20 Whitehall st.....	New York City

**Brewing Process—Continued.**

NEWARK AERATOR CO.....	NEWARK, N. J.
NEW PROCESS MASHING CO., 1426 Montana street.....	Chicago, Ill.
PFAUDLER VACUUM FERMENTATION CO..	Rochester, N. Y.
RACH'S MASHING PROCESS CO., 225 Dearborn street.....	Chicago, Ill.

**Brewing Unmalted Grain.**

BILLINGS, A. W., 42, 137 Broadway.....	New York City
	Brooms and Brushes.

AMES BONNER CO.....	TOLEDO, O.
GERHARDT, C., 591 Hudson st.....	New York City
KAEFER, M., 646 Wells st.....	Chicago, Ill.
WIENS, ADOLPH R. & CO., 225-227 Cedar street.....	Milwaukee, Wis.

**Bung Bushes.**

ECONOMIC BEER BUNG CO., 216 E. RANDOLPH STREET, CHICAGO, ILL.....	CHICAGO, ILL.
HEYMAN, N. H., 438 E. 59th st.....	NEW YORK CITY
METZGER, HERMAN, 110 E. INDIANA ST.....	CHICAGO, ILL.
U. S. BUNG MFG. CO., BROOKLYN, CITY NEW YORK AND.....	CINCINNATI, O.

ZOLLER, CHAS., 12 WATER ST..... NEW YORK CITY

**Bunging Apparatus.**

BUECKER, E.....	NEWPORT, KY.
CLEVELAND BUNGING APPARATUS CO., 55 EUCLID AVE., CLEVELAND, O.....	CLEVELAND, O.
ROCHESTER BUNGING APPARATUS CO., 306-307 BECKLEY BLDG.....	ROCHESTER, N. Y.
SCHAEFFER, JOHN C., 1284 FULTON AVE.....	NEW YORK CITY

**Bungs.**

AMERICAN BUNG CO.....	DAVENPORT, IA.
ARMSTRONG CORK CO., PITTSBURGH, LANCASTER, PA., NEW YORK CITY, BROOKLYN, CHICAGO, ST. LOUIS, MO.	
ARMSTRONG-GILBERT CORK CO., 23 S. 4TH ST.... ST. LOUIS, MO.	
BARTON, T. W., 9-11 BAXTER ST.....	NEW YORK CITY
BODE, WM. & SON, 738-740 CENTRAL AVE.....	CINCINNATI, O.
CLEVELAND BUNG MFG. CO.....	CLEVELAND, O.
Michigan Bung Manufacturing Co.....	Detroit, Mich.
SOMMER'S SON, JOHN, 335-365 CENTRAL AVE.....	NEWARK, N. J.
TRUSLOW & CO., 4-6 PLATT ST.....	NEW YORK CITY
UHRIG, VAL., 417 JEFFERSON ST.....	Louisville, Ky.
U. S. BUNG MFG. CO.....	Brooklyn and Cincinnati

Bungs (Patent).

Metzger, Herm., 110 E. Indiana st.....Chicago, Ill.

Bung Tins.

Chicago Car Seal & Mfg. Co., Kinzie and Green  
streets.....Chicago, Ill.

Illig & Hartmann, 211 Pine st.....St. Louis, Mo.

Bungs (Tapping).

Metzger, Herm., 110 E. Indiana st.....Chicago, Ill.

Mohn, John, 360 Monroe ave.....Detroit, Mich.

Burning Brands.

Detroit Rubber Stamp Co., 99 Griswold st..Detroit, Mich.

Illig & Hartmann, 211 Pine st.....St. Louis, Mo.

Schoolfield, R. L., 280 Pearl st.....New York City

Ccanceling Wheels.

Detroit Rubber Stamp Co., 99 Griswold st..Detroit, Mich.

Caramel Malt.

AMERICAN MALT ROASTING CO., 25 Third  
avenue.....New York City

RAHR, WM., SONS CO.....Manitowoc, Wis

Carbons, Electric Light.

Wertheim, Ed., 55 So. Canal st.....Chicago, Ill.

Carbonating Apparatus.

GOLDEN GATE MFG. CO., 548 W. 23d st..New York City

HOFFMAN, A. M., Carbonating and Racking Ap-  
paratus Co., 43 So. Green st.....Chicago, Ill.

LIQUID CARBONIC ACID MFG. CO.....Chicago, Ill.

Matthews, John, Apparatus Co., 449-451 First  
avenue.....New York City

Norwalk Iron Works Co.....Norwalk, Conn.

PFAUDLER VACUUM FERMENTATION CO.,

.....Rochester, N. Y.

Wittemann Re-Carbonating Co., 188 William st, New York

REISINGER, HUGO, 38 Beaver st.....New York City

Stahl, Emil & Co.....New York City

Universal Carbonating Co., 200 Worth st..New York City

Werner, Aug., 52 Warren st.....New York City

Carbonic Acid Gas.

Iroquois Chemical Works, 358-362 Hamburg st.,

.....Buffalo, N. Y.

LIQUID CARBONIC ACID MFG. CO.....Chicago, Ill.

Matthews, John, Apparatus Co., 449-451 Firstave.

.....New York City

Pleister, Ernest G., 152 Church st.....New York City

**Car Seals.**

Chicago Car Seal & Mfg. Co., Kinzie and Green street.....	Chicago, Ill.
Keystone Seal & Press Co., 31 and 33 Broadway .....	New York City

**Cask and Vat Supports.**

Creswell, David S., 837 Race st.....	Philadelphia, Pa.
Ruhland, H. & Co., 22d and Master sts. ....	Philadelphia, Pa.

**Cask Rods.**

Heiser, Wm., 116 Clinton st.....	Buffalo, N. Y.
----------------------------------	----------------

**Coopers, Tank and Vat Builders.**

Benischek, Lorenz.....	Chicago, Ill.
Becker & Co., 355 Kingsland Ave.....	Brooklyn, N. Y.
Brennan, Jas., Driggs ave. and N. 11th street .....	Brooklyn, N. Y.
BRENNER, FRED, & SON.....	Dayton, O.
Burkhardt's Sons, Geo. J.....	Philadelphia, Pa.
Caldwell & Co., W. E.....	Louisville, Ky.
CINCINNATI COOPERAGE CO.....	Cincinnati, O.
Dieringer, C.....	Cincinnati, O.
Excelsior Redwood Co.....	San Francisco, Cal.
Goerres, Phil., 819 Vliet st.....	Milwaukee, Wis.
Hasty, J. F. & Sons. ....	Paragould, Ark. and Detroit, Mich.
HAUSER, BRENNER & FATH CO., 12-42 Division street.....	Cincinnati, O.
HEADEN & McAULEY, 112-118 E. Indiana st., .....	Chicago, Ill.
Hooper, C. A. & Co.....	San Francisco, Cal.
KETTER, FRED, COOPERAGE WORKS, .....	Milwaukee, Wis.
Korbel, F. & Bro.....	San Francisco, Cal.
Lux, Lewis F., 244 Childs st.....	Rochester, N. Y.
National Cooperage Co.....	Paducah, Ky.
Oker, Jos. & Sons.....	Cincinnati, O.
OLSEN TANK AND COOPERAGE WORKS, Chicago, Ill.	
Petrolea Barrel Co .....	London, Ontario, Canada
Rath, John, 1849-1863 Milwaukee ave.....	Chicago, Ill.
Reichert, Geo.....	Red Wing, Minn.
Sengel, Phil., 930-936 Madison ave.....	Louisville, Ky.
Shunk & Bros, J. M.....	Toledo, O.
Standard Stave & Cooperage Co., 160 State street .....	Boston, Mass.

**Coopers, Tank and Vat Builders—Continued.**

STECHER COOPERAGE WORKS, 3011 S. 7th street.....	St. Louis, Mo.
Stolper Cooperage Co., Chas.....	Milwaukee, Wis.
St. Paul Barrel Co.....	St. Paul, Minn.
Thaler Bros, 901-907 N. Clark st.....	Chicago, Ill.

**Cement.**

Aberthaw Co.....	Boston, Mass.
Buckeye Portland Cement Co.....	Bellefontaine, O.
Garden City Sand Co., 1010 Security bldg....	Chicago, Ill.
GILSONITE ROOFING & PAVING CO...St. Louis, Mo.	
Jenner, F. J.....	New York City
Kramer, Hermann, 177 Clinton st.....	Buffalo, N. Y.
Mock, Isidore.....	Brooklyn, N. Y.
Neuchatel Asphalt Co.....	New York City
New York & Rosendale Cement Co.....	New York City
SCHILLINGER BROS.....	Chicago, Ill.
Sicilian Asphalt Paving Co.....	New York City

**Chain Belting.**

Armstrong Engineering Co., 38 Cortlandt street	
.....	New York City
Caldwell, H. W. & Son Co., 127-133 W. Washington street.....	Chicago, Ill.
Jeffrey Mfg. Co., 125 E. 1st ave.....	Columbus, O.
Mey, F. H. C.....	Buffalo, N. Y.

**Chemical Apparatus.**

RICHARDS & CO., 108 Lake st.....	Chicago, Ill.
SARGENT, E. H. & CO.....	Chicago, Ill.

**Clutch Pulleys.**

Kenyon Bros.....	Raritan, N. J.
------------------	----------------

**Conveyors.**

Bartlett, C. O.....	Cleveland, O.
Caldwell, H. W. & Son Co., 127-133 W. Washington street.....	Chicago, Ill.
Dobler, Chas., 248-254 W. 27th st.....	New York City
ESSMUELLER & BARRY.....	St. Louis, Mo.
FRITSCH MFG. CO., THE FRANCIS, McMicken ave., Dunlap and Stark sts.....	Cincinnati, O.
Jeffrey Mfg. Co.....	Columbus, O.
Mey, F. H. C.....	Buffalo, N. Y.
Minnesota Engine Works, 5th and Washington street.....	St. Paul, Minn.

**Conveyors—Continued.**

OLSEN & TILGNER.....Chicago  
Parsons, J. D. & Son, 26th and Poplar sts., Philadelphia, Pa.  
Scaife, Wm. B. & Sons, 119 1st ave.....Pittsburg, Pa.

**Cooling Apparatus.**

DECKEBACH, F. C. SONS CO., 167-171 Court st.,  
.....Cincinnati, O.  
IRLBACHER & DAVIS, 529-533 Main st....Buffalo, N. Y.  
KAST COPPER & SHEET IRON CO.....Buffalo, N. Y.

**Copper and Brass (Sheet).**

Benedict & Burnham Mfg. Co.....Waterbury, Conn.  
Randolph & Clowes.....Waterbury, Conn.  
Swoyer, A. P. & Co., 17 N. 7th st.....Philadelphia, Pa.

**Copper and Brass Tubes.**

Benedict & Burnham Mfg. Co.....Waterbury, Conn.  
Randolph & Clowes.....Waterbury, Conn.  
Swoyer, A. P. & Co., 17 N. 7th st.....Philadelphia, Pa.

**Copper Floats.**

Benedict & Burnham Mfg. Co.....Waterbury, Conn.  
Reliance Gauge Co.....Cleveland, O.  
Scaife, W. B. & Sons .....Pittsburg, Pa.

**Copper Rolling Mills.**

Benedict & Burnham Mfg. Co.....Waterbury, Conn.  
Hendricks Bros., 40 Cliff st .....New York City  
Randolph & Clowes.....Waterbury, Conn.

**Coppersmiths.**

American Copper, Brass and Iron Works, La Salle  
ave. and Michigan st.....Chicago, Ill.  
Aufrichtig, Alois.....St. Louis, Mo.  
Dauernheim & Lupper.....St. Louis, Mo.  
DECKEBACH, F. C. SONS CO., 167-171 Court st.,  
.....Cincinnati, O.  
GOETZ & BRADA MFG. CO., 18-28 Michigan st.  
.....Chicago, Ill.  
Irlbacher & Davis, 529-533 Main st.....Buffalo, N. Y.  
Jockum & Jetter.....New York City  
KAST COPPER & SHEET IRON CO.....Buffalo, N. Y.  
Kattentidt, C., 42 Michigan st.....Chicago, Ill.  
Kloepfinger, G. F. C., 130 Ottawa st.....Toledo, O.  
Klotter, Geo. F., 733 Central ave.....Cincinnati, O.  
Lowell, C. A. & Co. ....Boston, Mass.  
Ott, Geo. F., 207-213 Buttonwood st....Philadelphia, Pa.

**Coppersmiths—Continued.**

POSCH, JOS., 59 W. 3rd st.....	St. Paul, Minn.
REISERT & ORTH, 181 Prince and 122 Sullivan streets.....	New York City
ROOS, AUG. & SONS COPPER WORKS, 232 W. 27th street.....	New York City
Seaife, Wm. B. & Sons, 119 1st ave.....	Pittsburgh, Pa.
Schaefer, Emil, 1320 North 5th st .....	Philadelphia, Pa.
Schluederberg & Perrot, 113-115 1st.....	Allegheny, Pa.
Seibel-Suessdorf Copper and Iron Mfg. Co., St. Louis, Mo.	
Stender, Wm. L., 197 1st st.....	Pittsburgh, Pa.
Trageser, John, Steam Copper Works, 447-457 W. 26th st.....	New York City
Weissleder, H., 814 Winnebago st.....	Milwaukee, Wis.

**Cork Extractors.**

Erie Specialty Co....	Erie, Pa.
Meriden Malleable Iron Co.....	Meriden, Conn.

**Corking Machinery.**

Ermold, E., 652-654 Hudson st.....	New York City
VILTER MFG. CO.....	Milwaukee, Wis
YAWMAN & ERBE.....	Rochester, N. Y.

**Corks.**

Armstrong Cork Co., Pittsburgh, Lancaster, Pa., New York City, Brooklyn, Chicago, St. Louis.	
Armstrong-Gilbert Cork Co., 23 S. 4th st...St. Louis, Mo.	
Bavothy, The Victor Bottlers' Supply Co., 409 Dearborn st.....	Chicago, Ill.
Busch, E. A. & Co., 108 S. Main st.....	St. Louis, Mo.
COLGAN, J. B., 49 Dey st.....	New York City
Conestoga Cork Works.....	Lancaster, Pa.
Farrell, Wm. J., 115-117 Maiden Lane....New York City	
Lancaster Cork Works.....	Lancaster, Pa.
McCready Cork Co., R. W., The.....	Chicago, Ill.
MEYER SUPPLY CO., 22 S. Main st.....	St. Louis, Mo.
Moehring, Wm. G., & Co., 136 Cedar st....New York City	
Schmidt, Hermanus, 18-20 Liberty st....New York City	
Truslow & Co., 4-6 Platt st.....	New York City
U. S. BUNG MFG. Co.....	Cincinnati, O.
Williamsburg Cork Co., corner Lorimer and Bayard sts....	Brooklyn, N. Y.

**Cork (Granulated).**

Armstrong, Cork Co.....	Pittsburg, Lancaster, Pa., New York City, Brooklyn, Chicago, St. Louis.

**Cork Branding Machines.**

Illig & Hartmann.....	St. Louis, Mo.
-----------------------	----------------

### Cork Pipe Coverings.

HEINSDORF, E. O. Co., Teutonic bldg.....	Chicago, Ill.
STONE & DURYEE.....	Bridgeport, Conn.

### Corn Goods.

Bishop Hominy Co.....	Sheldon, Ill.
CEREALINE MFG. CO.....	Indianapolis, Ind.
Chicago Hominy and Milling Co., Grand ave. and W. 45th st.....	Chicago, Ill.
Crystal Rice Milling Co.....	Marion, Ind.
Decatur Cereal Mills Co.....	Decatur, Ill.
FRUMENTUM CO., THE U. S., Chene and Guion sts.....	Detroit, Mich.
Engelke & Feiner Milling Co., 804 So. Broadway .....	St. Louis, Mo.
Hardy & Gough Co.....	New York City
Howard & Northwood Malt Mfg. Co.....	Detroit, Mich.
HUDNUT CO.....	Terre Haute, Ind.
Indian Rice Milling Co.....	Kansas City, Mo.
Meyer, Chas. E. & Co., 137 Roosevelt st....	New York City
MIAMI MAIZE CO.....	Toledo, O.
Neal Bros. & Co., 643-645 W. 6th st.....	Cincinnati, O.
Niles Milling Co.....	Niles, Mich.
Patterson, C. J., 133 Rialto bldg.....	Chicago, Ill.
Patent Cereals Co.....	Geneva, N. Y.
Peck, Geo. & Sons.....	Monticello, Ill.
Shellabarger Mill and Elevator Co.....	Decatur, Ill.
Sohngen & Brown Co.....	Hamilton, O.
Van Vliet, F. G. & I. N., 402 Produce Exchange, .....	New York City
Weidler, Sam. W. Co.....	Cincinnati, O.

### Corn (Roasted).

AMERICAN MALT ROASTING CO., 25-27 Third ave.....	New York City
Hardcastle, R., 21 Whitehall st.....	New York City
NEW YORK MALT ROASTING CO., 137 Roose- velt st.....	New York City

### Corrugated Iron.

Columbia Roofing Co.....	Canton, O.
Garry Iron and Steel Roofing Co.....	Cleveland, O.
Marlin & Co.....	Allegheny, Pa.
Scaife, W. B. & Sons.....	Pittsburgh, Pa.

**Crushed Quartz.**

Garden City Sand Co., 1010 Security bldg....Chicago, Ill.  
GILSONITE ROOFING & PAVING CO., Wain-  
wright bldg .....St. Louis, Mo.

**Damper Regulators.**

Locke Regulator Co.....Salem, Mass.  
Mason Regulator Co.....Boston, Mass.  
Van Auken Co., 166-174 S. Clinton st.....Chicago, Ill.

**Degerminators.**

Nordyke & Marmon Co.....Indianapolis, Ind.

**Discs.**

Bernardin Bottle Cap Co.....Evansville, Ind.

**Disinfectants.**

Davie & Co., 58-60 Wabash ave., Chicago, Ill., and  
308 Walnut st.....Philadelphia, Pa.  
Rochester Disinfectant Co.....Rochester, N. Y.  
Schieffelin, W. H. & Co.....New York City

**Draft Horses.**

Klee, Abe & Son, 238-242 N. Centre ave.....Chicago, Ill.

**Dust Collectors.**

Dobler, Chas., 224-248 W. 27th st.....New York City  
Harmon Manufacturing Co.....Jackson, Mich.  
Heine, August.....Silver Creek, N. Y.  
KAESTNER, CHAS. & CO., 241-269 S. Jeffer-  
son st.....Chicago, Ill.  
Nordyke & Marmon Co.....Indianapolis, Ind.  
Parsons, J. D. & Son, 26th and Poplar streets  
.....Philadelphia, Pa.

**Dust Protectors.**

TORCHIANI, H., 43-45 Centre st.....New York City

**Dynamos.**

Keystone Electric Co.....Erie, Pa.  
Metropolitan Electric Co., 186 5th ave.....Chicago, Ill.  
Robertson, W. H., 60 S. Canal st.....Chicago, Ill.  
Shawhan-Tresher Electrical Co.....Dayton, O.

**Electrical Construction.**

Claus, P., 333-335 E. 107th st.....New York City  
Fisher Electrical Mfg. Co.....Detroit, Mich.  
General Electric Co.....Scheneectady, N. Y.  
Metropolitan Electric Co., 186 5th ave.....Chicago, Ill.  
New York State Electric Co .....Youngstown, O.  
Shawhan-Tresher Electrical Co.....Dayton, O.

**Electrical Engineers.**

Shawhan-Thresher Electrical Co. .... Dayton, O.

**Electric Motors.**

Akron Electrical Mfg. Co. .... Akron, O.

Robertson, W. H., 60 S. Canal st. .... Chicago, Ill.

Shawhan-Thresher Electrical Co. .... Dayton, O.

**Elevator Buckets.**

Armstrong Engineering Co., 38 Cortland st., New York City  
Caldwell, H. W. & Son Co., 127-133 W. Wash-

ington st. .... Chicago, Ill.

Clark, W. J. & Co. .... Salem, O.

Jeffrey, Mfg. Co. .... Columbus, O.

Mey, F. H. C. .... Buffalo, N. Y.

Minnesota Engine Works, 5th and Washington  
streets. .... St. Paul, Minn.

Scaife, Wm. B. & Sons, 119 1st ave. .... Pittsburgh, Pa.

Weller Mfg. Co., 120 North ave. .... Chicago, Ill.

**Elevator Machinery.**

Armstrong Engineering Co., 38 Cortland st., New York City  
Caldwell, H. W. & Son Co., 127-133 W. Wash-

ington st. .... Chicago, Ill.

Dobler, Chas., 244-248 W. 27th st. .... New York City

KAESTNER, Chas. & CO., 241-249 S. Jefferson  
street .... Chicago, Ill.

Kahlert, Justus, 125 W. 3rd st. .... St. Paul, Minn.

**Elevators (Passenger and Freight).**

Chicago Automatic Scale Co., Chamber of Com-  
merce bldg. .... Chicago, Ill.

Curran, Jas. H., 132 W. 2nd st. .... Cincinnati, O.

FRITSCH MFG. CO., THE FRANCIS. .... Cincinnati, O.

Graves Elevator Co. .... Rochester, N. Y.

Lane & Bodley Co. .... Cincinnati, O.

Link-Belt Engineering Co. .... Chicago, Ill.

Morse, Williams & Co., 1105 Frankford ave. ....

Philadelphia, Pa.

RILLING, CHAS. .... New York City

Schock, Gust. .... New York City

SULZER-VOGT MACHINE CO. .... Louisville, Ky.

**Emery Wheels.**

Standard Emery Wheel Co. .... Albany, N. Y.

**Enamel.**

Ernecke & Salmstein, 300 S. Clinton St. .... Chicago, Ill.

Gelien & Co., 155 Maiden Lane. .... New York City

**Enamel—Continued.**

Hamrick Tank and Barrel Hard Shell Enameling Co.	Philadelphia, Pa.
Maynz & Co., 83 Spring st.	New York City
Standard Paint Co., 2 Liberty st., New York City	
and 871 Rookery bldg.	Chicago, Ill.

**Enameled Signletters.**

Taylor, A. V. & Co., 420 Central ave.	Cincinnati, O.
---------------------------------------	----------------

**Engineers (Consulting).**

Post, Edward.	Monroe, Mich.
Westerlin & Campbell, 26 W. Lake st.	Chicago, Ill.

**Engines.**

Allis, Edw. P. Co.	Milwaukee, Wis.
Bartlett, A. F. & Co.	Saginaw, Mich.
Brownell & Co.	Dayton, O.
Dobler, Chas., 244-248 W. 27th st.	New York City
Filer & Stowell Co.	Milwaukee, Wis.
Frick Co.	Waynesboro, Pa.
FRITSCH MFG. CO., THE FRANCIS.	Cincinnati, O.
Greenwald & Co., J. E.	Cincinnati, O.
Harris, Wm. A., Steam Engine Co.	Providence, R. I.
Hewes & Phillips Iron Works.	Newark, N. J.
Hoffmann & Billings Mfg. Co.	Milwaukee, Wis.
Huetteman & Cramer Co.	Detroit, Mich.
KAESTNER, CHAS. & Co., 241-249 S. Jefferson street.	Chicago, Ill.
Kahler, Justus, 125 W. 3rd st.	St. Paul, Minn.
Lane & Bodley Co., The.	Cincinnati, O.
Leffel, James, Co.	Springfield, O.
Minnesota Engine Works, 5th and Washington streets.	St. Paul, Minn.
Newburgh Engine Co.	Newburgh, N. J.
Parsons, J. D. & Son, 26th and Popular streets	Philadelphia, Pa.
RILLING, CHAS., 518-522 W. 35th st.	New York City
Robertson, W. H., 60 S. Canal st.	Chicago, Ill.
Schock, G., 341-353 E. 59th st.	New York City
Shipman Engine Co., 286 Summer st.	Boston, Mass.
Skinner Engine Co.	Erie, Pa.
Valley Iron Works.	Williamsport, Pa.
VILTER MFG. CO.	Milwaukee, Wis.
WOLF, FRED. W., CO.	Chicago, Ill.

**Engineers' Supplies.**

Wertheim, Ea., 55 S. Canal st.	Chicago, Ill.
--------------------------------	---------------

**Exhaust Steam Condensing Head.**

Faucet, J. L., 627 Maine st.....Quincy, Ill.

**Expansion Joints.**

Taunton Locomotive Manufacturing Co., Taunton, Mass.

**Explosion Preventors.**

Wagner & Marr, 416 N. Howard st.....Baltimore, Md.

**Fasteners (Horses and Cattle).**

Jackson, Geo.....Mapleton, Ind.

**Faucets.**

Am. Copper, Brass and Iron Works, La Salle ave.

and Michigan st.....Chicago, Ill.

Automatic Tap and Faucet Co., 518 W. 22d st.

.....New York City.

BERNER-MAYER CO., 83 Lake, Cleveland, O.;

187 Washington st., Chicago, Ill. and 43 Centre

st.....New York City.

BISHOP & BABCOCK CO., cor. Kirkland and

Hamilton sts., Cleveland, O.; 199 Washington

st., Chicago, Ill., and 152 Centre st., New York City.

Cleveland Beer Pump and Supply Co., 948-962

Hamilton st.....Cleveland, O.

CLEVELAND FAUCET CO., 21-27 Frankfort st.

.....Cleveland, O.

Cleveland Mfg. Co., (see Bishop & Babcock).

Dauernheim & Lupfer, 216 Locust st.....St. Louis

DECKEBACH, F. C. SON'S CO., 167-171 Court st.

.....Cincinnati, O.

GOLDEN GATE MFG. CO., 548 W. 23rd st. New York City

HEYMANN, N. H., 438 E. 59th st.....New York City

Homer & Poole, 231 Race st.....Philadelphia, Pa.

King, The W. D., 510 Penn st.....Reading, Pa.

Knapp's Faucet Co.....Syracuse, N. Y.

Mc Kenne, A. & T., 82-84 3d ave.....Pittsburg, Pa.

Messmer, Fred Mfg. Co.....St. Louis, Mo.

Newark Faucet Co., 91 Duryee st.....Newark, N. J.

Newell-Booth Co., 449 N. Broad st.....Philadelphia, Pa.

Owen & Salter, 12 Butterwood st.....Philadelphia, Pa.

POSCH, JOS., 59 W. 3d st.....St. Paul, Minn.

Sommer's Son, John, 335-365 Central ave., Newark, N. J.

Stearns, E. C. & Co.....Syracuse, N. Y.

Varwig Machine Co., 376 Walnut st.....Cincinnati, O.

Vulcan Brass Co., 948-962 Hamilton st.....Cleveland, O.

Zoller, Chas., 12 Water st.....New York City

Faucets (Safety).

GOLDEN GATE MFG. CO., 548-550 W. 23d st. .... New York City

Faucets (Self-closing).

CURRAN, Jas, Mfg. Co., 512-514 W. 36th st. .... New York City

Faucets (Wooden).

BARTON, T. W., 9-11 Baxter, st. .... New York City  
DECKEBACH, F. C. SONS CO., 167-181 Court st.

..... Cincinnati, O.  
KNAPP FAUCET CO. .... Syracuse, N. Y.  
SOMMER'S SON, JOHN, 335-365 CENTRAL ave. Newark, N. J.  
STEARNS, E. C. & CO. .... Syracuse, N. Y.  
UHRIG, VAL., 417 Jefferson st. .... Louisville, Ky.

Feed Water Heaters and Purifiers.

ADAMS BOILER CO. .... Cleveland, O.  
BARAGWANATH, WM. & SON, 48-52 W. DIVISION ST. .... Chicago, Ill.  
DAVIS, I. B. & SON. .... Hartford, Conn.  
HARRISBURG PIPE BENDING CO. .... Harrisburg, Pa.  
HOPPES MFG. CO. .... Springfield, O.  
LEARMOUTH, ROB, 200 BOUCk AVE. .... Buffalo, N. Y.  
KROESCHELL BROS., 41-55 E. ERIC ST. .... Chicago, Ill.  
STEWART HEATER CO. .... Buffalo, Ill.  
STILLWELL-BIEREE AND SMITH-Vaile CO. .... Dayton, O.  
TAUNTON LOCOMOTIVE MFG. CO. .... Taunton, Mass.  
VOGT, HY. & BROS. MFG. CO. .... Brooklyn, N. Y.  
WHEELER CONDENSOR AND ENGINEERING CO. .... New York City  
WHITMORE-DEAN MFG. CO., 1434 MONADNOCK BLDG. .... Chicago, Ill.

Fermentation.

PFAUDLER VACUUM FERMENTATION CO.,  
306 BECKLEY BLDG. .... Rochester, N. Y.

Filter Sand.

GARDEN CITY SAND CO., 1010 SECURITY BLDG. .... Chicago, Ill.

Filters (Beer).

GERMAN-AMERICAN FILTER CO., 69 BROAD  
ST. .... New York City  
HEYMAN, N. H., 38 E. 59th ST. .... New York City  
LOEW FILTER CO., 394 ERIC ST. .... Cleveland, O.  
NATIONAL FILTER AND CARBONATING CO.,  
..... Chicago, Ill.  
REISINGER, HUGO, 38 BEAVER ST. .... New York City.

**Filters (Water).**

Martin & Co., 206 Robinson st..... Allegheny, Pa.

**Finings (Liquid).**

Beggs, E. J. & Co., 105 John st..... New York City  
Williamson, D. D. & Co., 14 Dey st..... New York City

**Fire Alarm.**

Copenhagen Aut. Fire Alarm Co., 156 Adams st  
..... Chicago, Ill.

**Fire Extinguishers.**

Bennet, H. R., 101 Scott bldg..... Philadelphia, Pa.  
Charles, The H. H. Co., Wells bldg..... Quincy, Ill.  
Dobler, Chas., 244-248 W. 27th st..... New York City  
Fire Extinguisher Mfg. Co., 315 S. Desplaines st.  
..... Chicago, Ill.

KAESTNER, CHAS. & CO., 241-249 S. Jefferson  
st..... Chicago, Ill.  
Standard Fire Extinguisher Co., 2712 Girard ave.,  
..... Philadelphia, Pa.  
Wagner & Marr, 416 N. Howard st..... Baltimore, Md.

**Fire Fronts.**

FRITSCH MFG. CO., THE FRANCIS..... Cincinnati, O.

**Fire Proofing.**

Koop, J. A., 57 Oneida st..... Milwaukee, Wis.  
Parker-Russell Mining and Mfg. Co..... St. Louis, Mo.  
Wertheim, Ed., 55 S. Canal st..... Chicago, Ill.

**Flue Cleaners.**

American Tool Co., 302 Federal st..... Boston, Mass.  
Chesterton, A. W. W. & Co., 49 India st..... Boston, Mass.  
Flachman & Matthews, 808 N. 4th st..... St. Louis, Mo.  
Gerhardt, C., 584 Hudson st..... New York City

**Friction Clutches.**

American Tool Co., 302 Federal st..... Boston, Mass.  
ESSMUELLER & BARRY..... St. Louis, Mo.  
KAESTNER, CHAS. & CO., 241-249 S. Jefferson  
st..... Chicago, Ill.  
Moore & White Co., N. E. corner 15th st. and  
Lehigh ave..... Philadelphia, Pa.  
Parsons, J. D. & Son, 26th and Popular..... Philadelphia, Pa.  
Stillwell-Bierce & Smith-Vaile Co..... Dayton, O.  
Williams, M. F. & Co., 2705-2707 N. Broadway,  
..... St. Louis, Mo.

**Furnace Grates.**

Kelley Foundry and Machine Co ..... Goshen, Ind

**Gas Compressor.**

Norwalk Iron Works Co. .... S. Norwalk, Conn.

**Gas Engines.**

Otto Gas Engine Co. .... Chicago, Ill.

Sintz Gas Engine Co. .... Grand Rapids, Mich.

Springfield Gas Engine Co. .... Springfield, O.

**Gauges.**

American Steam Gauge Co., 36 Chardon st. Boston, Mass.

Bristol Co., The ..... Waterbury, Conn.

Reliance Gauge Co. .... Cleveland, O.

Schaeffer & Budenberg ..... Brooklyn, N. Y.

Seipel, John, 90-92 Park Row ..... New York City

**Gauge Cocks.**

American Steam Gauge Co., 36 Chardon st. Boston, Mass.

**Glass Signs.**

Cramer Co., The ..... Cincinnati, O.

Rawson & Evans, 151 W. Washington st. .... Chicago, Ill.

TOWNSEND, HOSTETTER & CO. .... Chicago, Ill.

TUCHFARBER & CO., THE F. .... Cincinnati, O.

Tweed Advertising Co. .... Portage, Wis.

Tweed Williams Co. .... Chicago, Ill.

**Governors.**

Van Auken Co., 166-174 S. Clinton st. .... Chicago, Ill.

**Grain Cleaners.**

Howes Co., The E. .... Silver Creek, N. Y.

**Grain Scales.**

Buffalo Scale Co. .... Buffalo, N. Y.

Pratt & Whitney Co. .... Hartford, Conn.

**Grain Scoops.**

Sommer's Son, John, 335-365 Central ave. Newark, N. J.

**Grain Dryers.**

Boomer, The F. D. Co. .... Syracuse, N. Y.

Cummer, F. D. Sons Co. .... Cleveland, O.

GRIESSEER, WILH. ENGINEERING CO., 907-911

Schiller bldg. .... Chicago, Ill.

Mey, F. H. C. .... Buffalo, N. Y.

BRAUNS, L., successor to F. E. Otto, 15-25

Whitehall st. .... New York City

PAWLING & HARNISCHFEGER. .... Milwaukee, Wis.

Steigerwald, Fred., 15-25 Whitehall st. .... New York City

**Grain Dryers—Continued.**

ST. LOUIS DRIED BREWERS' GRAIN CO.,	St. Louis, Mo.
United States Grain Drying Co., 804 Ashland block.....	Chicago, Ill.

**Grains Press (Brewers).**

Boomer & Boschert Press Co.....	Syracuse, N. Y.
Davis, Johnson & Co., 45 E. Jackson st.....	Chicago, Ill.
Hydraulic Press Mfg. Co., Mt. Gilead, O., and 45 E. Jackson st.....	Chicago, Ill.

**Grate Bars.**

Dilworth Co., The, Bay and Warren sts...Jersey City, N. J.	
Economical Smoke Preventing Furnace Co., 829 Rookery bldg.....	Chicago, Ill.
Freeman, S. & Sons Co.....	Racine, Wis.
Greenfield, W. G. & Co.....	East Newark, N. J.
Gulickson, Geo., 43-55 Indiana st.....	Chicago, Ill.
Herbert, M. E., Heater Co., 41 and La Salle st.,	
.....	Chicago, Ill.
Kelley Foundry & Machine Shop.....	Goshen, Ind.
Munroe, R. & Son, cor. 23rd and Smallman sts.,	
.....	Pittsburgh, Pa.
Vogt, Hy. & Bro. Manufacturing Co., 7-11 Kent ave.....	Brooklyn, E. D., N. Y.

**Gravel Roofing.**

Ford Roofing Co., 306 Teutonic bldg.....	Chicago, Ill.
Garden City Sand Co., 1010 Security bldg....	Chicago, Ill.

**Harness Dressing.**

Agnoline Co., 334 Dearborn st., Chicago, Ill., and 80 S. Water st.....	Milwaukee, Wis.
Perfection Dressing Co., 26-30 W. Randolph st.	

.....Chicago, Ill.

**Harness Oil.**

Perfection Dressing Co., 26-30 W. Randolph st.	
.....	Chicago, Ill.

**Hoop Fasteners.**

CINCINNATI COOPERAGE CO.....	Cincinnati, O.
Robertson, W. F., Steel & Iron Co.....	Cincinnati, O.
Scott, J. M.....	Racine, Wis.

**Hoop, Lock and Draw Bolts.**

Winship Manufacturing Co.....	Racine, Wis.
-------------------------------	--------------

**Hop Baskets.**

Laminar Fibre Goods Co., 180 Summer st...Boston, Mass.	
--	--

**Hop Extract.**

GOLDMAN, E. & CO., 10-12 River st.....Chicago, Ill.  
N. Y. HOP EXTRACT WORKS.....Waterville, N. Y.

**Hop Extractors.**

Brewing Improvement Co., 132-138 Mulberry  
street.....New York City  
Muller, Jacob, 418-420 E. 62nd st.....New York City  
PAWLING & HARNISCHFEGER.....Milwaukee, Wis.

**Hop Refining Apparatus.**

Brewing Improvement Co., 132-138 Mulberry  
street.....New York City

**Hops.**

Aaron, Louis J. & Co., 901 Liberty st.....Pittsburg, Pa.  
Akin, Albio, 35 Pearl st.....New York City  
Ashby, Frederick, 42 High street Borough  
.....London, S. E. England  
Bain, Donald, 557 Main st.....Buffalo, N. Y.  
Bauer, J. C. & Co., 632 Sacramento st. San Francisco, Cal.  
BING, BERNHARD, 20 Exchange place..New York City  
BING, S. B. SOEHNE, 25 Whitehall st..New York City  
Bolte, August, 47 Colborne st.....Toronto, Canada  
Brady & Hinman.....Cooperstown, N. Y.  
Busch, E. A. & Co.....St. Louis, Mo.  
Camp, J. E.....Sacramento, Cal.  
Dole Bros. & Co., 101 Commercial st. ....Boston, Mass.  
Dole, W. H., 44-46 Pearl st.....New York City  
EHLERMANN, CHAS., HOP and MALT CO....  
.....St. Louis, Mo.  
ELKINS, GEO. W., 147 N. Front st.....Philadelphia, Pa.  
Faber & Neis .....Albany, N. Y.  
FALK WORMSER & CO., 231 E Kinzie st...Chicago, Ill.  
Ferguson, F. T. ....Malone, N. Y.  
Flint, F. V. & Co., 305 J st.....Sacramento, Cal.  
Fountain, W. H., 1036 Penn ave.....Pittsburg, Pa.  
Fox, Hugh F., 35 Pearl st.....New York City  
Fritz, C. W., 100 Michigan st.....Chicago, Ill.  
Goepper, H. & Co., Canal, Sycamore and Hunt sts.,  
.....Cincinnati, O.  
GOLDMAN & CO., 10 and 12 River st.....Chicago, Ill.  
Green, Chas. Son, Brainard & Co.....Waterville, N. Y.  
Guettermann & Co., 11 Stone st.....New York City  
Hauser & Sons' Malting Co.....St. Paul, Minn.  
Heidenheimer, C. & L., 13 Stone st.....New York City

## Hops—Continued.

Hermann & Co., 309-311 Sacramento street.....	San Francisco, Cal.
Hill, Thos. Co., 25 Griswold st.....	Detroit, Mich.
Hoppe, Chas. & Son Malting Co., 717 Park ave.,	
Horst Bros.....	St. Louis, Mo.
Kiewert, Chas. L. & Co.....	Chicago, Ill.
LAWRENCE, W. A.....	Milwaukee, Wis.
Lipe, E. & W. H.....	Waterville, N. Y.
Loewi, Val., 37 Pearl st.....	Canajoharie, N. Y.
Lux & Co.' F. A., 415 Sacramento st. ....	San Francisco, Cal.
Magnus', A. Sons, 244 E. Randolph st.....	Chicago, Ill.
May, Chas. S. & Co., 344-346 Broadway....	Albany, N. Y.
Mebius & Drescher.....	Sacramento, Cal.
Meyer Supply Co., 22 Main st.....	St. Louis, Mo.
McGowan, T. W., Jr., 36-38 Whitehall st. ....	New York City
Miller, F. D.....	Oneonta, N. Y.
Neubourg, & Co., 1016-1020 5th st.....	Sacramento, Cal.
Neis, Phil & Co.....	Salem, Oregon
N. Y. HOP EXTRACT WORKS.....	Waterville, N. Y.
OETERS, J. C., 1242 N. 31st st.....	Philadelphia, Pa.
Orth, James & Co., 54 Chamber of Commerce,	
Pacific Hop Co.....	Milwaukee, Wis.
Patterson, C. J., 113 Rialto bldg.....	Seattle, Wash.
Pier Bros., 39 Pearl st.....	Chicago, Ill.
Pincus, Isaac.....	New York City
Pincus, James.....	Tacoma, Wash.
Ramsay & Co., S....	Seattle, Wash., and Reedsburg, Wis.
Reinemann, Paul, 22 Whitehall st.....	New York
REISINGER, HUGO, 38 Beaver st.....	New York City
Roberts, W. F., 70 Commercial st.....	Boston, Mass
ROSENWALD, T. & CO., 13 Water and 14 Front	
sts.....	New York City
Rothbarth, M. & Co., 26 Whitehall st. ....	New York City
Rothbarth & Sons, 35 Pearl st.....	New York City
Russell, J. M. Co.....	Portland, Ore.
Russell, W. S.....	Cooperstown, N. Y.
Schroeder, Rob.....	Malone, N. Y.
Schwarz, Benj. & Sons, 45 Pearl st.....	New York City
Scott Co., John R , 67 Broad st. ....	New York City
Searles, Louis R , 15 Whitehall st.....	New York City
Seidenberger Sons, M., 15-25 Whitehall st..	New York City
SOMMER, OTTO A. & CO., 114 Franklin st. ....	Chicago, Ill.

**Hops—Continued.**

- Steiner, S., 19-25 Whitehall st..... New York City  
 Strassburg, Aug., 19-25 Whitehall st..... New York City  
 Uchtmann, E., 17-19 Broadway..... New York City  
 Uhlmann, Carl & Co., 17-19 Broadway.... New York City  
 Uhlmann, Oscar, 11 Stone st..... New York City  
 Uhlmann, S. and F. & Co., 69 Broad st., New  
     York City, and 120 Battery street, San Francisco, Cal.  
 Vischer, A. & Co., 7 Warren st..... New York City  
 Wattenberg Co., E., 104 Broad st..... New York City  
 Wedeles, H., 95 Broad st..... New York City  
 Westcott, L..... Oneonta, N. Y.  
 Wilber, Geo. I..... Oneonta, N. Y.  
 Wolf, Phil. & Co., 206-208 Battery st., San Francisco, Cal.

**Hop Substitute.**

- Beggs, E. J. & Co., 105 John st..... New York City  
 Heyman, N. H., 438 E. 59th st ..... New York City  
 Mueller, P., 135 W. 127th st..... New York City

**Horse and Cattle Feed.**

- Economic Feed Co., 120 Randolph st..... Chicago, Ill  
 Western Horse and Cattle Food Co., 1416 Montana  
     street..... Chicago, Ill.

**Horse Collars.**

- Bellis, W. L., 77 Michigan st..... Cleveland, O.  
 Cork Faced Collars Co..... Lincoln, Ill.

**Horse Remedies.**

- Agnoline Co., 334 Dearborn st., Chicago and 80 S.  
     Water st..... Milwaukee, Wis.  
 Campbell, Jas. B. Co., 414 W. Madison st., Chicago,  
     Ill., and 338 Broadway..... New York City  
 Chiles, Edw., 200 Kinzie st..... Chicago, Ill.  
 Western Horse and Cattle Food Co., 1416 Montana  
     street..... Chicago, Ill.

**Horses.**

- Klee, Abe & Son, 238-242 N. Centre ave..... Chicago, Ill.

**Hose.**

- Akron Rubber Works..... Akron, O.  
 Boston Belting Co., 256-260 Devonshire st., Boston, Mass.  
 Flachmann & Mathews, 808 N. 4th st..... St. Louis, Mo.  
 Goodrich, B. F. Co..... Akron, O.  
 Heim Belting Co., 20 Ferry st..... New York City  
 Main Belting Co., 248 Randolph st..... Chicago, Ill.  
 Maegerlein, Wm., 2701 Archer ave..... Chicago, Ill.

**Irish Moss.**

Beggs, E. J. & Co., 105 John st.....	New York City
Dole Bros. Co.....	Boston, Mass.
HOWE & FRENCH.....	Boston, Mass.
Parker, R. H. & Co.....	Boston, Mass.
Truslow & Co., 4 and 6 Platt st.....	New York City

**Iron (Building and Architectural).**

Barley, J. F. & Sons, 257 S. 4th st.....	Philadelphia, Pa.
Girard Iron Works.....	Philadelphia, Pa.
Hafers, Chris., 406-416 W. 37th st.....	New York City

**Iron and Steel Roofing and Siding.**

Scaife, W. B. and Sons, 118 1st ave.....	Pittsburg, Pa.
--	----------------

**Iron, Glass and Varnish.**

Columbia Varnish Works.....	St. Louis, Mo.
MAYNZ & CO., 12 Stone st.....	New York City
Standard Paint Co., 2 Liberty st., New York City and 871 Rookery bldg.....	Chicago, Ill.

**Isinglass.**

CAPE ANN ISINGLASS CO.....	Rockport, Mass.
HASKINS, L. M. & CO.....	Boston, Mass.
HOWE & FRENCH .....	Boston, Mass.
Parker, R. H. & CO., 32 Central st.....	Boston, Mass.
RIPLEY ISINGLASS .....	Boston, Mass.
Truslow & Co., 4 and 6 Platt st.....	New York City
Zoller, Chas., 12 Water st.....	New York City

**Key Elevators.**

FRITSCH MFG. CO., THE FRANCIS, McMicken ave., Dunlap and Stark st.....	Cincinnati, O.
TORCHIANI, H., 43-45 Centre st.....	New York City

**Keg Washing Machines.**

Dobler, Chas. 244-248 W. 27th st.....	New York City
Eureka Machine Co., ft. of Queen st.....	Cleveland, O.
HEYMAN, N. H., 438 E. 59th st.....	New York City
RILLING, CHAS., 518-522 W. 35th st ..	New York City
Schock, G., 341-353 E. 59th st.....	New York City
Zoller, Chas., 12 Water st.....	New York City

**Kiln Floors.**

Clinton Wire Cloth Co.....	Chicago, Ill.
GOETZ & BRADA MFG. CO., 18-20 Michigan st., .....	Chicago, Ill.
Harrington & King Perforating Co.....	Chicago, Ill.
Howard & Morse, 45 Fulton st.....	New York City
Huetteman & Cramer Co.....	Detroit, Mich.

**Kiln Floors—Continued.**

Hughes, W. & Son, 141 N. Front st.....Philadelphia, Pa.  
Kahlert, Justus, 125 W. 3rd st.....St. Paul, Minn.  
Mundt, Chas. & Son, 88-90 Water st.....New York City  
TOEPFER, W. & SONS, 76-88 Menominee st.,  
.....Milwaukee, Wis.  
WOLF, FRED W. CO., 139-141 Rees st.....Chicago, Ill.

**Labels.**

Goes Lithographing Co.....Chicago, Ill.  
Milwaukee Lith. & Engr. Co.....Milwaukee, Wis.

**Lace Leather.**

Flachman & Matthews, 808 N. 4th st.....St. Louis, Mo.

**Lamps (Brewers' Cellar).**

Buecker, E., & Son, 27 W. 6th st.....Newport, Ky.

**Lime.**

Thorn & Hunkins Lime and Cement Co ...St. Louis, Mo.

**Lithographers.**

Goes Lithographing Co.....Chicago, Ill.  
Richmond Lithographing Co.....Buffalo, N. Y.  
Rode & Brand, 10 Barclay st.....New York City  
Schile & Sons, 269 Bowery.....New York City

**Machinists and Millwrights.**

Allis Co., The Edw. P.....Milwaukee, Wis.  
Armstrong Engineering Co., 38 Cortland st.New York City  
Caldwell, H. W. & Son Co., 127-133 W. Washington  
ton street.....Chicago, Ill.  
Case Refrigerating Machine Co.....Buffalo, N. Y.  
Dehner-Wuerpel Mill Bldg. Co., 1607-1615 S. 3rd  
street.....St. Louis, Mo.  
Dobler, Chas., 244-248 W. 27th st.....New York City  
ESSMUELLER & BARRY .....St. Louis, Mo.  
Freeman, J. T. & Co.....Woburn, Mass.  
FRITCH MFG. CO , THE FRANCIS.....Cincinnati, O.  
HEINSDORF, E. O. & CO., Teutonic bldg...Chicago, Ill.  
Haggenmiller, Otto, 827 N. 4th st.....Philadelphia, Pa.  
HEISER, WM., 116 Clinton st.....Buffalo, N. Y.  
Huettemann & Cramer Co., The.....Detroit, Mich.  
KAESTNER, CHAS. & CO.....Chicago, Ill.  
Kahlert, Justus, 125 W. 3d st.....St. Paul, Minn.  
Lowell, C. A. & Co., 11 Chardon st.....Boston, Mass.  
Minnesota Engine Works, 5th and Washington  
streets.....St. Paul, Minn.  
National Machine Works, 35 S. Canal st.....Chicago, Ill.

**Machinists and Millwrights—Continued.****NORTHWESTERN COPPER & BRASS WORKS**

.....	St. Paul, Minn.
Nordyke & Marmon Co.	Indianapolis, Ind.
OLSEN & TILGNER, 37-39 Ontario st	Chicago, Ill.
Ott, Geo. F., 207-213 Buttonwood st	Philadelphia, Pa.
Parsons, J. D. & Son, 25th and Poplar streets	Philadelphia, Pa.
.....	Chicago, Ill.
Pearce, Frank S. & Co., 355 Dearborn st	Milwaukee, Wis.
Prinz & Rau Mfg. Co.	New York City
RILLING, CHAS., 518-522 W. 35th st	Cincinnati, O.
Schock, G., 341-353 E. 59th st	New York City
Schultz Mfg. Co., 9-13 Dayton ave	Louisville, Ky.
TORCHIANI, H., 43-45 Centre st	New York City
VILTER MFG. CO.	Brooklyn, N. Y.
WAGNER, A. C.	Philadelphia, Pa.
Wunder, Fred., 126 Broadway	Terre Haute, Ind.

**Magnetic Separators.**

Howes, S.	Silver Creek, N. Y.
-----------	---------------------

**Maizone.**

HUDNUT CO., THE	Terre Haute, Ind.
-----------------	-------------------

**Mallets.**

Sommers' Son, John, 335-365 Central ave.	Newark, N. J.
--	---------------

**Malt Bags.**

Collins, J. Ross., 197 West st	New York City
Kurtz Bag Co., 7-9 Water st	New York City

**Malt Boxes.**

Laminar Fibre Goods Co., 180 Summer st.	New York City
---	---------------

**Malt Cleaners.**

Howes Co., The S.	Silver Creek, N. Y.
Huntley Mfg. Co.	Silver Creek, N. Y.
Laidlaw, A. & Co.	Toronto, Canada, and Cleveland, O.
Richter, Chas.	New York City

**Malt Fans.**

Andrews & Johnson Co., 250-254 S. Clinton	Chicago, Ill.
---	---------------

**Malt Fibre.**

Brewers Malt Fibre Works, The	New York City
-------------------------------	---------------

**Malt House Floors.**

Aberthaw Co., 12 Pearl st	Boston, Mass.
Chichizzla, Paul, 77 S. 5th ave.	New York City
SCHILLINGER BROS.	Chicago, Ill.

**Malt Mills.**

Allis Co., The Edw. P.	Milwaukee, Wis.
Dehner-Wuerpel Mill Bldg. Co., 1607-1615 S. 3rd street	St. Louis, Mo.
Dobler, Chas., 244-248 W. 27th st.	New York City
ESSMUELLER & BARRY	St. Louis, Mo.
Freeman, J. F. & Co.	Woburn, Mass.
FRITSCH MFG. CO., THE FRANCIS	Cincinnati, O.
Hughes Mfg. Co.	Hamilton, O.
Kahlert, Justus, 125 W. 3d st.	St. Paul, Minn.
KAESTNER, CHAS. & CO.	Chicago, Ill.
Minnesota Engine Works, 5th and Washington streets	St. Paul, Minn.
Nordyke & Marmon Co.	Indianapolis, Ind.
OLSEN & TILGNER, 87 and 39 Ontario st.	Chicago, Ill.
Parsons, J. D. & Son, 25th and Poplar sts.	Philadelphia, Pa.
RILLING, CHAS., 518-522 W. 35th st.	New York City
Schock, G., 341-453 E. 57th st.	New York City
VILTER MFG. CO.	Milwaukee, Wis.

**Malt Shovels.**

Sommer's Son, John, 335-365 Central ave.. Newark, N. J.

**Malt Sprouts and Screenings.**

Hottelet & Kamm, Mitchell bldg.	Milwaukee, Wis.
Mueller, E. P., 189 La Salle st.	Chicago, Ill.
ST. LOUIS DRIED GRAINS CO.	St. Louis, Mo.

**Maltsters' Sample Envelopes.**

Howe Pattern Mfg. Co., 53-55 Bates st.... Detroit, Mich.

**Man-Hole Doors.**

HEISER, WM, 116 Clinton st.	Buffalo, N. Y.
Ruhland, H. & Co., 22d and Masters sts.	Philadelphia, Pa.
Woolford, Geo., 2240-2244 N. 9th st.	Philadelphia, Pa.

**Mashing Machinery.**

BILLINGS, A. W., 42 and 137 Broadway..	New York City
Dobler Chas., 244-248 W. 27th st	New York City
FRITSCH MFG. CO., THE FRANCIS	Cincinnati, O.
GOETZ & BRADA MFG. CO., 18-28 Michigan st.	Chicago, Ill,
Huettmann & Cramer Co.	Detroit, Mich.
KAESTNER, CHAS. & CO.	Chicago, Ill.
Kahlert, Justus, 125 W. 3d st.	St. Paul, Minn.
Minnesota Engine Works, 5th and Washington sts.	St. Paul, Minn.
Ott, Geo. F., 207-213 Buttonwood st....	Philadelphia, Pa.

**Mashing Machinery—Continued.**

Parsons, J. D. & Son, 26th and Poplar sts.	Philadelphia, Pa.
RACH'S MASHING PROCESS CO., 225 Dearborn st.	Chicago, Ill.
RILLING, CHAS., 518-522 W. 35th st.	New York City
Schock, G., 341-353 W. 59th st.	New York City
VILTER MFG. CO.	Milwaukee, Wis.

**Mashing Process.**

BILLINGS, A. W., 42, 137 Broadway	New York City
NEW PROCESS MASHING CO., 1426 Montana st.	Chicago, Ill.
RACH'S MASHING PROCESS CO., 225 Dearborn st	Chicago, Ill.

**Metallic Packings.**

Merrill, W. B. & Co., 297 Congress st.	Boston, Mass.
Swain Lubricator Co., 278-280 S. Water st.	Chicago, Ill.
Udstadt, S., 101-105 Water st.	Aurora, Ill.

**Microscopes.**

Kraft, Wm., 411 W. 59th st.	New York City
RICHARDS & CO., 101 Lake st.	Chicago and New York
Stieren, Wm. E., 544 Smithfield st.	Pittsburg, Pa.
SARGENT, E. H. & CO.	Chicago, Ill.

**Metal Polish.**

Grether, John.	Akron, O.
Harvey Chemical Co.	La Fayette, Ind.
Hoffman, Geo. W., 295 S. Washington street,	Indianapolis, Ind.

**Mill Supplies.**

Cadwell, H. W. & Son Co., 127-133 W. Washington ton st.	Chicago, Ill.
Flachman & Matthews, 808 N. 4th st.	St. Louis, Mo.
KAESTNER & CO., CHAS.	Chicago, Ill.
OLSEN & TILGNER, 37 and 39 Ontario st.	Chicago, Ill.
Parsons, J. D. & Son, 26th and Poplar streets,	Philadelphia, Pa.
Wertheim, Edw., 55 S. Canal st.	Chicago, Ill.

**Mineral Wool.**

Standard Mineral Wool Co.	So. Milwaukee, Wis.
Koop, John A., 57 Oneida st.	Milwaukee, Wis.

**Mugs.**

Central N. Y. Pottery	Utica, N. Y.
LOEWE & DIERCKX, 66 Park Place	New York

**Natron (Compressed).**

Zoller, Chas., 12 Water st..... New York City

**Oats Cleaner.**

Highbie Oats Cleaner Co., 80 Lake st..... Chicago, Ill.  
Whitfield, Thomas, 369 Wabash ave..... Chicago, Ill.

**Oil and Grease Cups and Lubricators.**

Albany Lubricating Compound and Cup Co., 313  
West st..... New York City  
Blatz, L. Brass Works, 103-107 W. Monroe st..Chicago, Ill.  
Cook's, Adam, Sons, 313 West st ..... New York City  
Flachman & Matthews, 808 N. 4th st..... St. Louis, Mo.  
Pulver, Peter, Sons, 214 Franklin st..... New York City  
TORCHIANI, H., 43-45 Centre st..... New York City  
Wertheim, Ed., 55 S. Canal St..... Chicago, Ill.  
Wilkinson, W. H., 352 Atlantic ave..... Boston, Mass.

**Oil Burners.**

Chicago Gas and Crude Oil Burner Mfg. Co., 267  
Wabash ave..... Chicago, Ill.

**Oil Cabinets.**

New York Oil Cabinet Co., 180-186 Cherry street  
..... New York City

**Oil Filters.**

Gravity Purifier Co ..... Decatur, Ind,  
Peoria Automatic Filter Co..... Peoria, Ill.  
Phoenix Automatic Filter Co..... Racine, Wis.

**Oils.**

Albany Lubricating Compound and Cup Co., 313  
West st..... New York City  
Cook's Sons, Adams, 313 West st..... New York City  
Flachman & Matthews, 808 N. 4th st..... St. Louis, Mo.  
Kellogg & Co., E. H..... New York City

**Oiling System.**

Ryan, Wm., 1114 Chambers st..... St. Louis, Mo.

**Oil Separators.**

Harrison Safety Boiler Works, 313 N. 17th street  
..... Philadelphia, Pa.  
Stephens, J. S., 313-315 Dearborn st..... Chicago, Ill.

**Packings.**

Boston Belting Co., 256-260 Devonshire st..Boston, Mass.  
Briggs Packing Co., 808 N. 4th st ..... St. Louis, Mo.  
Chesterton, A. W. & Co., 49 India st..... Boston, Mass.

**Packings—Continued.**

Flachman & Matthews, 804 N. 4th st.....	St. Louis, Mo.
Jenkins Bros., 31 N. Canal st.....	Chicago, Ill.
Merrill, Wm. B. & Co, 297 Congress st.....	Boston, Mass.
New York Belt & Packing Co.....	New York City
Pulver, Peter & Son, 214 Franklin st.....	New York City
St. Louis Steel Wire Brush Co., 712 Main st.....	St. Louis, Mo.
Swain Lubricator Co., 278-280 S. Water st, Chicago, Ill., and 29 Oliver st .....	Boston, Mass.
Udstadt, S., 101-105 Water st.....	Aurora, Ill.
Walsh & Mosher, 66 Lake st.....	Chicago, Ill.
Watson, H. F. Co.....	Erie, Pa.
Wertheim, Ed., 55 S. Canal st.....	Chicago, Ill.

**Paints.**

Allen, Ackley & Co.....	Cincinnati, O.
Binswanger & Co., B.....	Philadelphia, Pa.
Devoe, F. W., 176 Randolph st.....	Chicago, Ill.
Gellien & Co., 155 Maiden Lane.....	New York City
Hinkman & Lockwood, 90 Shelby st.....	Detroit, Mich.
Iron-Clad Paint Co., 22 Case bldg.....	Cleveland, O.
MAYNZ & CO., 12 Stone st.....	New York City
Nubian Iron Enamel Co.....	Cragin, Ill.
OETERS, JOHN C., 1242 N. 31st st....	Philadelphia, Pa
Russell Paint Co., Paulina and Kinzie st....	Chicago, Ill.
Scriven, W. H.....	Yonkers, N. Y.
Standard Paint Co., 871 Rookery bldg....	Chicago, Ill.
ZEMENTINE MFG. WORKS .....	Philadelphia, Pa.
Zobel, Ernst, 112 2d ave.....	South Brooklyn, N. Y.

**Paste.**

Arabol Mfg. Co., 13 Gold st.....	New York City
----------------------------------	---------------

**Pasteurizing Apparatus.**

Werner, Aug., 52 Warren st.....	New York City
Woodbury, S. S.....	Bradford, Pa.

**Patent Attorneys.**

Banning & Banning & Sheridan, 225 Dearborn street.....	Chicago, Ill.
Belt, C. F.....	Washington, D. C.
Chandlee & Chandlee.....	Washington, D. C.
Dyrenforth & Dyrenforth, Monadnock bldg..	Chicago, Ill.
Fowler & Fowler, 7 Nassau st.....	New York City
Ladd, Story B.....	Washington, D. C.
Munn & Co.....	New York City
Rummel, William R.....	Chicago, Ill.

**Paving (Cork).**

Jenner, F. J., 26 Cortlandt st..... New York City

**Perforated Metals.**

Fraser & Chalmers..... Chicago, Ill.  
Harrington & King Perforating Co..... Chicago, Ill.  
Mundt, Chas. & Son, 88 Walker st..... New York City  
TOEPFER, W. & SONS, 76-88 Menomonee st.  
..... Milwaukee, Wis.

**Pipe and Boiler Coverings.**

Flachman & Matthews, 808 N. 4th st..... St. Louis, Mo.  
E. O. HEINSDORF & CO., Teutonic Bldg....Chicago, Ill.  
Keasbey, Robt. A., 54 Warren st..... New York City  
STONE & DURYEE..... Bridgeport, Conn.  
Watson, H. F. Co..... Erie, Pa.  
Wertheim, Ed., 55 S. Canal st..... Chicago, Ill.  
WOLF, FRED W. CO..... Chicago, Ill.

**Pipe Coils.**

Cardell, Jas. D. & Co., Rising Sun Lane and N.  
Penn R. R..... Philadelphia, Pa.  
Farrell & Rempe Co., Sacramento and Carroll  
avenues..... Chicago, Ill.  
Harrisburg Pipe Bending Co..... Harrisburg, Pa.  
Samson Steam Forge Co., Sacramento and Carroll  
avenues..... Chicago, Ill.  
SULZER-VOGT MACHINE CO..... Louisville, Ky.  
WOLF, FRED W. CO..... Chicago, Ill.

**Pipe Joints.**

Lawson, E., 1386 Seventy-sixth st ..... New York City  
Tight Joint Co., 150-161 Bank st..... New York City  
WOLF, FRED W. CO..... Chicago, Ill.

**Pipe Threading and Cutting Machinery.**

Bignall & Keeler Mfg. Co..... St. Louis, Mo.

**Pitch.**

Beggs, E. J. & Co., 105 John st..... New York City  
German-American Pitch Co ..... Savannah, Ga.  
MEYER SUPPLY CO., 22 S. Main st..... St. Louis, Mo.  
Miller Bros., Emerald and Taylor sts...Philadelphia, Pa.  
OETERS, J. C., 1242 N. 31st st..... Philadelphia, Pa.  
Sauerwein, R., 1320 S. 2d st..... St. Louis, Mo.  
Shotter, S. P. & Co..... Savannah, Ga.  
Zobel, Ernst, 112-116 2d ave..... South Brooklyn, N. Y.

### Pitching Machines.

Eureka Machine Co., Queen st.....	Cleveland, O.
FRITSCH MFG. CO., THE FRANCIS.....	Cincinnati, O.
Gerlach, Peter & Co.....	Cleveland, O.
HEINSDORF, E. O., & Co., Teutonic bldg....	Chicago, Ill.
Haggenmiller, Otto, 827 N. 4th st.....	Philadelphia, Pa.
Huettemann & Cramer Co.....	Detroit, Mich.
KAESTNER, CHAS., & CO., 241-249 Jefferson st.	
.....	Chicago, Ill.
National Machine Works, 35 S. Canal st.....	Chicago, Ill.
PAWLING & HARNISHFEGER.....	Milwaukee, Wis.
Short, Geo. W., Columbus and Leonard sts..	Cleveland, O.
TORCHIANI, H., 43-45 Centre st.....	New York City
Vogt & Bros. Mfg. Co., Henry, Kent ave..	Brooklyn, N. Y.

### Pitching Machine Thermometer.

Hohmann & Maurer Mfg. Co.....	Brooklyn, N. Y.
-------------------------------	-----------------

### Pneumatic Maltings.

Dornfeld, J. F. & Co., 134 Van Buren st.....	Chicago, Ill.
GALLAND-HENNING PNEUMATIC MALTING	
DRUM MFG. CO., 80 S. Water st....	Milwaukee, Wis.
Hersey Mfg. Co.....	South Boston, Mass.
Saladin Pneumatic Malting Const. Co., 57-67 S.	
Clinton st.....	Chicago, Ill.

### Portland Cement Paving.

Chicchizzola, Paul, 77 S. 5th ave.....	New York City
GILSONITE ROOFING & PAVING CO....	St. Louis, Mo.
Kramer, Herm., 177 Clinton st.....	Buffalo, N. Y.
Osborn, S. J. & Co., Pearl st. and Eggleston ave.,	
.....	Cincinnati, O.
SCHILLINGER BROS. CO.....	Chicago, Ill.

### Preserving Material.

Beggs, E. J. & Co., 105 John st.....	New York City
BIDTEL CHEMICAL CO.....	Milwaukee, Wis.
Boake, E. & O.....	London, England
Bolte, Aug., 47 Colborne st.....	Toronto, Ont., Canada
Freytag & Peeler Co., 332 N. 3d st.....	Philadelphia, Pa.
HEYMAN & EISCHER, 32 Stone st.....	New York City
HIRSH & SCHOFIELD.....	New York City
Moehring, Wm. G. & Co., 136-138 Cedar st..	New York City
Northcote, R., 29 Church st.....	Toronto, Ont., Canada
NORTH-WESTERN CHEMICAL CO ....	Milwaukee, Wis.
Pape & Co., 42 N. 5th st .....	Philadelphia, Pa.

**Preserving Material—Continued.**

RICHARDS & CO., Ltd....	New York City and
.....	Chicago, Ill.
Williamson & Co., D. D.....	New York City
Zoller, Chas., 14 Water st.....	New York City

**Pressure Regulators.**

Mason Regulator Co.....	Boston, Mass.
-------------------------	---------------

**Pulleys.**

Williams, M. F. & Co., 2705-2707 N. Broadway	
.....	St. Louis, Mo.

**Pump Governors.**

Clayton Air Compressor Works, 43 Dey st..	New York City
Mason Regulator Co.....	Boston, Mass.
Metz, Andrew, 132 La Salle st.....	Chicago, Ill.

**Pumping Outfit.**

Shipman Engine Co., 286 Summer st.....	Boston, Mass.
--	---------------

**Pumps (Air).**

BERNER-MAYER CO., 83 Lake St.....	Cleveland, O,
BISHOP & BABCOCK CO., Kirtland and Hamilton sts.....	Cleveland, O.
Clayton Air Compressor Works, 26 Cortlandt street.....	New York City
Cleveland Beer Pump Co. (see Bishop & Babcock).	
CLEVELAND FAUCET CO.....	Cleveland, O.
Cleveland Mfg. Co. (see Bishop & Babcock).	
Dean Bros., Steam Pump Works.....	Indianapolis, Ind.
Foster Pump Works, 36-38 Bridge st.....	Brooklyn, N. Y.
FRITSCH MFG. CO., THE FRANCIS.....	Cincinnati, O.
Huetteman & Cramer Co.....	Detroit, Mich.
Laidlaw-Dunn-Gordon Co.....	Cincinnati, O.
New York Air Brake Co., 66 Broadway....	New York City
Niagara Steam Pump Works, 387-391 Flushing avenue.....	Brooklyn, N. Y.
Norwalk Iron Works Co.....	South Norwalk, Conn.
Union Steam Pump Co.....	Battle Creek, Mich.
VILTER MFG. CO.....	Milwaukee, Wis.

**Pumps (Deep Well).**

American Well Works.....	Aurora, Ill.
Cook, A. D.....	Lawrenceburg, Ind.
Deming Co.....	Salem, O.
Ingersoll-Sargent Drill Co., 26 Cortlandt st.	New York City

**Pumps, Deep Well—Continued.**

McGowan, John H. Co., 42-46 Central ave.. Cincinnati, O.  
 Schnee, Alex. E., 253 Broadway..... New York City  
 Van Duzen & Tifft Co., 102 E. 2d st..... Cincinnati, O.

**Pumps (Duplex Air).**

Clayton Air Compressor Works, 43 Dey st.. New York City

**Pumps (Steam).**

Battle Creek Steam Pump Co..... Battle Creek, Mich.  
 Cameron, A. S., Steam Pump Works, ft. E. 23rd  
     street..... New York City  
 Canton Pump Co..... Canton, O.  
 Clayton Air Compressor Works, 43 Dey st., New York City  
 Cook, A. D..... Lawrenceburg, Ind.  
 Davidson, M. T., 42-52 Keap st..... Brooklyn, N. Y.  
 Dean Bros. Steam Pump Works..... Indianapolis, Ind.  
 Deming Co..... Salem, O.  
 Filer & Stowell Co..... Milwaukee, Wis.  
 Foster Pump Work, 36-38 Bridge st..... Brooklyn, N. Y.  
 Hardick, Chas. B..... Brooklyn, N. Y.  
 Hill Machine Co..... Anderson, Ind.  
 Huetteman & Cramer Co..... Detroit, Mich.  
 Ingersoll-Sargent Drill Co., 26 Cortlandt st.. New York City  
 Kahlert, Justus, 125 W. 3rd st..... St. Paul, Minn.  
 Kennedy, Geo. J., 1728 Bouvier st..... Philadelphia, Pa.  
 Laidlaw-Dunn-Gordon Co., 186-188 W. 2d st.. Cincinnati, O.  
 Louisville Steam Pump Co..... Louisville, Ky.  
 McGowan, John H. Co., 42-46 Central ave.. Cincinnati, O.  
 Niagara Steam Pump Works, 387-391 Flushing  
     ave..... Brooklyn, N. Y.  
 Schnee, Alexander E., 253 Broadway..... New York City  
 Shipman Engine Co., 286 Summer st..... Boston, Mass.  
 Snow Steam Pump Co..... Buffalo, N. Y.  
 Stillwell-Bierce & Smith-Vaile Co..... Dayton, O.  
 Tappan Steam Pump Works, 103 S. Canal st.. Chicago, Ill.  
 Union Steam Pump Co..... Battle Creek, Mich.  
 Valley Pump Co..... Easthampton, Mass.  
 Van Duzen & Tifft Co., 102-108 E. 2d st.... Cincinnati, O.  
 VILTER MFG. CO..... Milwaukee, Wis.  
 Wertheim, Ed., Chicago, Ill.. 52 Warren st., New York City  
 Northington, Henry P..... New York City

**Racking Apparatus.**

GOLDEN GATE MFG. CO., 348 W. 23d st.. New York City  
 HOFMAN, A. M., Carbonating & Racking Co.,  
     51 So. Green street..... Chicago, Ill.

**Racking Apparatus—Continued.**

HEINSDORF, E. O. & CO., 1006 Teutonic bldg., Chicago, Ill.  
ROCHESTER BUNGING APPARATUS CO.

..... New York City  
TORCHIANI, H. .... New York City  
Werner Aug., 52 Warren st. .... New York City

**Racking Faucets.**

DECKEBACH, F. C. SONS CO. .... Cincinnati, O.  
HEYMAN, N. H., 438 E. 59th st. .... New York City  
Irlbacher & Davis, 529-533 Main st. .... Buffalo, N. Y.  
Raggio, Chas. A., 127 S. Water st. .... New York City

**Racking Hose.**

Wm. Maegerlein, Archer ave. .... Chicago, Ill.

**Railroad Track Scales.**

Buffalo Scale Co. .... Buffalo, N. Y.

**Rain Proof Covers.**

Carpenter, Geo. B. & Co., 202-208 S. Water st.,  
..... Chicago, Ill.

**Redwood Lumber.**

Excelsior Redwood Lumber Co. .... San Francisco, Cal.  
Hooper, C A. & Co., 4th and Channel sts. San Francisco, Cal.  
Korbel, F. & Bros., 5th and Bryant sts. San Francisco, Cal.

**Refrigerators.**

Ridgway Refrigerator Co., 1433-37 Marshall st.  
..... Philadelphia, Pa.

**Respirators.**

LOEB RESPIRATOR CO., 90 Warren st. .... New York City  
Gibbs Respirator Co. .... Chicago, Ill.  
Vajen-Bader Co. .... Indianapolis, Ind.

**Rice.**

Bauer, J. C. & Co., 632 Sacramento st. San Francisco, Cal.  
EHLERMANN, CHAS., HOP and MALT CO.  
..... St. Louis.  
GOLDMANN E., & CO., 10-20 River st. .... Chicago, Ill.  
Hardy & Gough Co., Williams & Beaver sts. New York City  
MEYER SUPPLY CO., 22 S. Main st. .... St. Louis, Mo.  
Wedeles, H., 80 Pearl st. .... New York City

**Roofings.**

Aberthaw Co., 12 Pearl st. .... Boston, Mass.  
Allen, Ackley & Co. .... Cincinnati, O.  
Columbia Roofing Co., The. .... Canton, O.  
Ford Roofing Co., 306 Teutonic bldg. .... Chicago, Ill.

**Roofings—Continued.**

Garden City Sand Co., 1010 Security bldg.....	Chicago, Ill.
Garry Iron and Steel Roofing Co., The.....	Canton, O.
GILSONITE ROOFING and PAVING CO., Wain-	
wright bldg.....	St. Louis, Mo.
Martin & Co., 206 Robinson st.....	Allegheny, Pa.
Scaife, Wm. B. & Sons, 119 1st ave.....	Pittsburgh, Pa.
SCHILLINGER BROS.....	Chicago, Ill.
Schotter, S. P. Co.....	Savannah, Ga.
Standard Paint Co., 871 The Rookery bldg...Chicago, Ill.	
Warren Chemical and Mfg. Co., 88 Fulton st.	
.....	New York City
Watson, H. F. Co.....	Erie, Pa.

**Rope, Twine and Cordage.**

Carpenter, Geo. B. & Co., S. Water st. and 5th	
avenue .....	Chicago, Ill.

**Saccharometers.**

Prince, L. M., 134 W. 4th st.....	New York City
RICHARDS & CO., Ltd..	New York City and Chicago, Ill.
SARGENT, E. H., 108 Wabash ave.....	Chicago, Ill.
Seipel, John, 90 Park Row.....	New York City
Stieren, W. E., 544 Smithfield st.....	Pittsburgh, Pa.

**Saloon Fixtures.**

Brunswick-Balke-Collender Co.....	Chicago, Ill.
-----------------------------------	---------------

**Sample Envelopes.**

Howe Pattern and Mfg. Co., 53-55 Bates st..Detroit, Mich.	
---	--

**Scales.**

Buffalo Scale Co.....	Buffalo, N. Y.
Fairbanks Co.. The.....	Chicago, Ill.
Parsons, J. D. & Sons, 26th and Poplar streets	
.....	Philadelphia, Pa.
Pratt & Whitney Co .....	Hartford, Conn.
Standard Scale & Supply Co.....	Pittsburgh, Pa.

**Scales (Automatic).**

Pratt & Whitney Co.....	Hartford, Conn.
-------------------------	-----------------

**Seals and Wires.**

Chicago Car Seal and Mfg. Co., cor. Kinzie and	
Green sts.....	Chicago, Ill.
Detroit Rubber Stamp Co., 99 Griswold st..Detroit, Mich.	
Dietz, Fred.....	Indianapolis, Ind.
Illig & Hartmann, 22 Pine st.....	St. Louis, Mo.
Keystone Seal and Press Co., 39-41 Cortlandt	
street .....	New York City

**Seals and Wires—Continued.**

National Car Seal Co.....	Hamilton, O.
Wilson, Geo. & Sons.....	Toledo, O.
YAWMANN & ERBE.....	Rochester, N. Y.

**Separators.**

Harrison Safety Boiler Works, 3132 North 7th street.....	Philadelphia, Pa.
Mosher, Chas. D., 1 Broadway.....	New York City
Stephens, J. S., 313 Dearborn st.....	Chicago, Ill.

**Shafting, Pulleys, Anchors, Etc.**

Armstrong, Engineering Co., 38 Cortlandt st. .....	New York City
Caldwell, H. W. & Son Co., 127-233 W. Wash- ton st.....	Chicago, Ill.
Dobler, Chas., 244-248 W. 27th st.....	New York City
KAESTNER, CHAS. & CO.....	Chicago, Ill.
Kahlert, Justus, 125 W. 3d st.....	St. Paul, Minn.
Minnesota Engine Works.....	St. Paul, Minn.
Parsons, J. D. & Sons, 26th and Poplar streets, .....	Philadelphia, Pa.
RILLING, CHAS., 518-522 W. 35th st.....	New York City
Schock, G., 341-353 E. 59th st.....	New York City
Stilwell-Bierce & Smith-Vaile Co.....	Dayton, O.
VILTER MFG, CO.....	Milwaukee, Wis.

**Shavings.**

Bode, Wm. & Son, 738-740 Central ave.....	Cincinnati, O.
Chicago Corrugated Shavings Co., 548 N. Halsted street.....	Chicago, Ill.
Davidge & Weisert.....	Austin, Pa.
Wilson Mfg. and Supply Co., 209-215 S. Clinton street.....	Chicago, Ill.

**Shavings Washers.**

Am. Copper, Brass and Iron Works.....	Chicago, Ill.
Chicago Corrugated Shaving Co.....	Chicago, Ill.
Doelger & Kirsten.....	Milwaukee, Wis.
Robbins, Gamwell & Co., 33 West st.....	Pittsfield, Mass.
Kuebler, Willibald .....	Easton, Pa.

**Sheet Iron and Tank Work.**

Am. Copper, Brass and Iron Works.....	Chicago, Ill.
Cardell, Jas. D. & Co.....	Cleveland, O.
DECKEBACH, F. C. SONS CO .....	Cincinnati, O.
GOETZ & BRADA MFG. CO.....	Chicago, Ill.
Hughes, W. W. & Sons, 141 N. Front st. Philadelphia, Pa.	

**Sheet Iron and Tank Work—Continued.**

Irlbacher & Davis, 529-533 Main st.....	Buffalo, N. Y.
KAST COPPER and SHEET IRON CO.....	Buffalo, N. Y.
Kattentidt, C., 42 Michigan st.....	Chicago, Ill.
Klotter, Geo. F. & Co., 734-735 Central ave.,..	Cincinnati, O.
Munroe, R. & Son, 23d and Smallman sts..	Pittsburg, Pa.
Ott, Geo. F., 207-213 Buttonwood st....	Philadelphia, Pa.
Parsons, J. D. & Son, 26th and Poplar sts.	Philadelphia, Pa.
POSCH, JOS., 59 W. 3d st.....	St. Paul, Minn.
ROOS, AUG. & SONS COPPER WORKS, 232 W.	
27th st.....	New York City
Scannell & Wholey.....	Lowell, Mass.
Schaefer, Emil, 1320 North 5th st.....	Philadelphia, Pa.
Schluederberg & Perrot, 113-115 1st st....	Allegheny, Pa.
TOEPFER, W. & SONS, 76-88 Menomonee st.	
.....	Milwaukee, Wis.
Vogt, Hy. & Bros., Mfg. Co., 7-11 Kent ave.	
.....	Brooklyn, N. Y.
Weissleder, H., 814 Winnebago st. ....	Milwaukee, Wis.

**Signs, Showcards, Etc.**

Brooklyn Advertising Sign Co.....	Brooklyn, N. Y.
Cramer Co.....	Cincinnati, O.
Hausmann, M. & Co.....	New York City
Marsland, F. E. & Co., 190 W. Broadway..	New York City
Lith. Sign Co.....	Detroit, Mich.
Milwaukee Lith. and Engr. Co. ....	Milwaukee, Wis.
Sentenne & Green.....	New York City
Splinter Herm., 223 Michigan st ..	Chicago, Ill.
Stadler Co., The Geo. J., 41 W. Indiana st...	Chicago, Ill.
Taylor, A. V. & Co., 420 Central ave.....	Cincinnati, O.
TOWNSEND, HOSTETTER & CO.....	Chicago, Ill.
TUCHFARBER, THE F., CO .....	Cincinnati, O.
Tweed Advertising Sign Co.....	Portage, Wis.

**Smokeless Furnaces.**

McMillan, Jas. Co., 47 Washington st.....	Chicago, Ill.
---	---------------

**Stamp Paste.**

Arabol Mfg. Co., 13 Gold st.....	New York City
Miller Bros., Emerald and Taylor sts...	Philadelphia, Pa.

**Stamp Protectors.**

Bernadin Bottle Cap Co.....	Evansville, Ind.
Chicago Car Seal & Mfg. Co., Kinzie and Green streets.....	Chicago, Ill.

**Stamps (Steel and Rubber).**

Detroit Rubber Stamp Co.....	Detroit Mich.
------------------------------	---------------

**Staves and Headings.**

CINCINNATI COOPERAGE CO.....	Cincinnati, O.
HAUSER, BRENNER & FATH CO. ....	Cincinnati, O.
Hasty, J. F. & Sons, Paragould, Ark., and Detroit, Mich.	
Jonesboro Stave and Hardware Co.....	Jonesboro, Ark.
Kennedy's Morelock Stave Co. ....	Wynne, Ark.
Mangold, John. ....	Harviell, Mo.
Standard Stave and Cooperage Co., 160 State street .....	Boston, Mass.
STECHER COOPERAGE WORKS, 3011 So. 7th street.....	St. Louis, Mo.
Stolper, Chas., 651-665 3d st.....	Milwaukee, Wis.
Thaler Bros., 901-907 N. Clark st.....	Chicago, Ill.

**Steam Condensers.**

Wheeler Condenser and Engineering Co., 39 Cort- landt st.....	New York City
--	---------------

**Steam Traps.**

Huyett & Smith Mfg. Co.....	Detroit, Mich.
Mason Regulator Co.....	Boston, Mass.
Rehm, Jos. & Co., 295 Smith st.....	Buffalo, N. Y.
Van Auken Co., 167-174 S. Clinton st.....	Chicago, Ill.
Woerner, Leo.....	St. Louis, Mo.

**Steel Beer Kettles.**

Connolly & Co., D.....	Cleveland, O.
------------------------	---------------

**Steel Castings.**

Chester Steel Castings Co., 407 Library street, .....	Philadelphia, Pa.
--	-------------------

**Stencils and Stamped Cancelers.**

Detroit Rubber Stamp Co., 99 Griswold st. Detroit, Mich.	
Illig & Hartmann, 211 Pine st.....	St. Louis, Mo.
Schoolfield, R. J.....	New York City

**"Sud und Gaer" Manuals.**

Goeger, Oscar.....	Newark, N. J.
U. S. Braumeister Bund, Louis Suess, Sec'y, 846 W. 18th street.....	Chicago, Ill.

**Sugars.**

CHICAGO SUGAR REFINING CO.....	Chicago, Ill.
--------------------------------	---------------

**Syrups.**

CHICAGO SUGAR REFINING CO.....	Chicago, Ill.
Meyer, Chas. & Co., 137 Roosevelt st.....	New York City
Miller & Co., J. H. and J. W.....	New York City
Waverly Refining Co., 50 Dey st.....	New York City

**Telephones.**

Automatic Telephone and Electric Co.....Chicago, Ill.  
Hubbard, W. & Co., 153 Washington st .....Chicago, Ill.  
Mills, Jessie R. & Co., 1845 Frederick st.....Chicago, Ill.

**Tents and Awnings.**

Carpenter, Geo. B. & Co., 202-208 S. Waterst. Chicago, Ill.

**Thermometers.**

Bristol & Co.....Waterbury, Conn.  
Hohman & Maurer Mfg. Co.....Rochester, N. Y.  
Neubekk, Aug. & Co.....New York City  
Prince, L. M., 134 W. 4th st.....Cincinnati, O.  
RICHARDS & CO., Limi'ded... New York City and  
.....Chicago, Ill.  
SARGENT, E. H. & CO.....Chicago, Ill.  
Sripel, John, 90-92 Park Row.....New York City  
Stieren, W. E., 544 Smithfield st.....Pittsburg, Pa.  
Weiskopf, A., 67 S. Canal st.....Chicago, Ill.

**Trucks.**

Buffalo Scale Co.....Buffalo, N. Y.  
Dietz, Fred.....Indianapolis, Ind.

**Tubes (Brass and Copper).**

Benedict & Burnham Mfg. Co.....Waterbury, Conn.  
Randolph & Clowes.....Waterbury, Conn.  
Swoyer, A. P. & Co., 17 N. 7th st.....Philadelphia, Pa.

**Vacuum Fermentation Process.**

PFAUDLER VACUUM FERMENTATION CO.  
.....Rochester, N. Y.

**Ventilators.**

Howard & Morse.....New York City

**Valves.**

American Steam Gauge Co., 36 Chardon st., Boston, Mass.  
Beckerley Valve Mfg. Co., Quincy and Franklin  
streets.....Chicago, Ill.  
Chapman Valve Mfg. Co., 72 Kilby st.....Boston, Mass.  
Culver Mfg. Co.....Seranton, Pa.  
DECKEBACH, F. C. & SONS, CO.....Cincinnati, O.  
Flachman & Matthews, 808 N. 4th st.....St. Louis, Mo.  
Irlbacher & Davis, 529-531 Main st.....Buffalo, N. Y.  
Jenkins Bros., 71 John st.....New York City  
Kelly & Jones Co.....Greensburg, Pa.  
Ludlow Valve Mfg. Co., The.....Troy, N. Y.

**Valves—Continued.**

Mason Regulator Co. .... Boston, Mass.  
 Ross Valve Co., Oakwood ave. .... Troy, N. Y.  
 Schaefer, John C., 170th st. and 3d ave. .... New York City

**Valve Reseating Machine.**

Dangerfield, F. S. .... Auburn, N. Y.  
 Leavitt Machine Co., The. .... Orange, Mass.

**Valves (Safety).**

American Steam Gauge Co., 36 Chardon st. .... Boston, Mass.  
 Consolidated Safety Valve Co., 111 Liberty street,  
       ..... New York City  
 Schaefer, John C. .... New York City

**Varnish.**

Beggs, E. J. & Co., 105 John st. .... New York City  
 Columbia Varnish Works. .... St. Louis, Mo.  
 Devoe, F. W., 176 Randolph st. .... Chicago, Ill.  
 Dutlinger, Dr. F. .... St. Louis, Mo.  
 German-American Pitch Co. .... Savannah, Ga.  
 GOLDMAN E. & CO., 10-12 River st. .... Chicago, Ill.  
 Indianapolis Varnish Co. .... Indianapolis, Ind.  
 Maynz & Co., 12 Stone st. .... New York City.  
 MEYER SUPPLY CO., 22 Main st. .... St. Louis, Mo.  
 Miller Bros., Emerald and Taylor sts. .... Philadelphia, Pa.  
 Sauerwein, R., 1320 S. 2d st. .... St. Louis, Mo.  
 Schotter, S. P. & Co. .... Savannah, Ga.  
 Zobel, Ernst, 112-116 2nd ave. .... South Brooklyn, N. Y.

**Ventilator Fans.**

American Blower Co. .... Detroit, Mich.  
 Andrews, Johnson & Co., 241-247 S. Jefferson  
     street. .... Chicago, Ill.  
 Diehl & Co., 385 Broadway. .... New York City  
 Globe Ventilator Co. .... Troy, N. Y.  
 Howard and Morse, 45 Fulton st. .... New York City  
 Sturtevant, B. F. Co., 16 S. Canal st. .... Chicago, Ill.  
 Wing, L. J. & Co., 109 Liberty st. .... New York City

**Ventilators.**

Globe Ventilator Co. .... Troy, N. Y.

**Vents.**

Canfield, H. O. .... Bridgeport, Conn.  
 Metzger, Herm., 1222 Seminary Place. .... Chicago, Ill.  
 Sommer's Son, John, 335-365 Central ave. .... Newark, N. J.

**Wagon and Horse Covers.**

Carpenter, Geo. B. & Co., 202-208 S. Water st. .... Chicago, Ill.

**Comparison of the Thermometer Scales of  
Reaumur, Fahrenheit and Celsius.**

$$t^{\circ}\text{C.} = \frac{5}{9} t^{\circ}\text{R.} = \frac{5}{9} t + 32^{\circ}\text{F.}$$

$$t^{\circ}\text{R.} = \frac{9}{5} t^{\circ}\text{C.} = \frac{9}{5} t + 32^{\circ}\text{F.}$$

$$t^{\circ}\text{F.} = \frac{5}{9} (t - 32)^{\circ}\text{C.} = \frac{5}{9} t - 32^{\circ}\text{R.}$$

R.	F.	C.	R.	F.	C.	R.	F.	C.	R.	F.	C.
-16	-4	-20	16	68	20	48	140	60	80	212	100
-15.2	-2.2	-19	16.8	69.8	21	48.8	141.8	61	80.8	213.8	101
-14.4	-0.4	-18	17.6	71.6	22	49.6	143.6	62	81.6	215.6	102
-13.6	1.4	-17	18.4	73.4	23	50.4	145.4	63	82.4	217.4	103
-12.8	3.2	-16	19.2	75.2	24	51.2	147.2	64	83.2	219.2	104
-12	5.0	-15	20	77	25	52	149	65	84	221	105
-1.2	6.8	-14	20.8	78.8	26	52.8	150.8	66	84.8	222.8	106
-10.4	8.6	-13	21.6	80.6	27	53.6	152.6	67	85.6	224.6	107
-9.6	10.4	-12	22.4	82.4	28	54.4	154.4	68	86.4	226.4	108
-8.8	12.2	-11	23.2	84.2	29	55.2	156.2	69	87.2	228.2	109
-8	14	-10	24	86	30	56	158	70	88	230	110
-7.2	15.8	-9	24.8	87.8	31	56.8	159.8	71	88.8	231.8	111
-6.4	17.6	-8	25.6	89.6	32	57.6	161.6	72	89.6	233.6	112
-5.6	19.4	-7	26.4	91.4	33	58.4	163.4	73	90.4	235.4	113
-4.8	21.2	-6	27.2	93.2	34	59.2	165.2	74	91.2	237.2	114
-4	23	-5	28	95	35	60	167	75	92	239	115
-3.2	24.8	-4	28.8	96.8	36	60.8	168.8	76	92.8	240.8	116
-2.4	26.6	-3	29.6	98.6	37	61.6	170.6	77	93.6	242.6	117
-1.6	28.4	-2	30.4	100.4	38	62.4	172.4	78	94.4	244.4	118
-0.8	30.2	-1	31.2	102.2	39	63.2	174.2	79	95.2	246.2	119
0	32	0	32	104	40	64	176	80	96	248	120
0.8	33.8	1	32.8	105.8	41	64.8	177.8	81	96.8	249.8	121
1.6	35.6	2	33.6	107.6	42	65.6	179.6	82	97.6	252.6	122
2.4	37.4	3	34.4	109.4	43	66.4	181.4	83	98.4	253.4	123
3.2	39.2	4	35.2	111.2	44	67.2	183.2	84	99.2	255.2	124
4	41	5	36	113	45	68	185	85	100	257	125
4.8	42.8	6	36.8	114.8	46	68.8	186.8	86	100.8	258.8	126
5.6	44.6	7	37.6	116.6	47	69.6	188.6	87	101.6	260.6	127
6.4	46.4	8	38.4	118.4	48	70.4	190.4	88	102.4	262.4	128
7.2	48.2	9	39.2	120.2	49	71.2	192.2	89	103.2	264.2	129
8	50	10	40	122	50	72	194	90	104	266	130
8.8	51.8	11	40.8	123.8	51	72.8	195.8	91	104.8	267.8	131
9.6	53.6	12	41.6	125.6	52	73.6	197.6	92	105.6	269.6	132
10.4	55.4	13	42.4	127.4	53	74.4	199.4	93	106.4	271.4	133
11.2	57.2	14	43.2	129.2	54	75.2	201.2	94	107.2	273.2	134
12	59	15	44	131	55	76	203	95	108	275	135
12.8	60.8	16	44.8	132.8	56	76.8	204.8	96	108.8	276.8	136
13.6	62.6	17	45.6	134.6	57	77.6	206.6	97	109.6	278.6	137
14.4	64.4	18	46.4	136.4	58	78.4	208.4	98	110.4	280.4	138
15.2	66.2	19	47.2	138.2	59	79.2	210.2	99	111.2	282.2	139

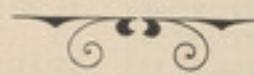
**B**EYER & **R**AUTERT

**Architects**  

---

**and Engineers**

**56 FIFTH AVENUE,**  
**Chicago, Ill.**



**SPECIALTIES:**

**Breweries, Malthouses,**

**Elevators, Packinghouses.**

Table for the Comparison of Different Saccharometers with Specific Gravity and giving Pounds of Extract in Wort per bbl. of 31 gals.

Kaiser Ballina.	Long's.	Gendar's.	Specific Gravity.	Extract per bbl. in lbs.	Kaiser Ballina.	Long's.	Gendar's.	Specific Gravity.	Extract per bbl. in lbs.
0.00	0.00	0.00	1.000	0.00	12.00	17.45	14.64	1.0488	32.52
.25	.36	.30	1.001	0.65	.25	.83	.96	1.0498	33.23
.50	.72	.60	1.002	1.30	.50	18.21	15.28	1.0509	33.94
.75	1.08	.90	1.003	1.95	.75	.60	.60	1.0520	34.65
1.00	.44	1.20	1.004	2.60	13.00	.99	.92	1.0530	35.36
.25	.80	.50	1.005	3.25	.25	19.38	16.24	1.0540	36.07
.50	2.16	.80	1.006	3.91	.50	.77	.55	1.0551	36.79
.75	.52	2.41	1.007	4.57	.75	20.16	.86	1.0562	37.50
2.00	.88	.40	1.008	5.22	14.00	.55	17.17	1.0572	38.22
.25	3.24	.70	1.009	5.88	.25	.94	.48	1.0582	38.94
.50	.60	3.00	1.010	6.54	.50	21.33	.80	1.0593	39.66
.75	.96	.30	1.011	7.20	.75	.72	18.12	1.0604	40.38
3.00	4.32	.60	1.012	7.86	15.00	22.11	.43	1.0614	41.11
.25	.68	.90	1.013	8.53	.25	.50	.75	1.0625	41.83
.50	5.04	4.20	1.014	9.19	.50	.89	19.07	1.0636	42.55
.75	.40	.50	1.015	9.86	.75	23.27	.39	1.0646	43.28
4.00	.76	.80	1.016	10.52	16.00	.66	.71	1.0657	44.00
.25	6.12	5.10	1.017	11.19	.25	24.05	20.03	1.0668	44.73
.50	.48	.40	1.018	11.86	.50	.44	.35	1.0679	45.46
.75	.84	.70	1.019	12.53	.75	.83	.67	1.0690	46.19
5.00	7.20	6.00	1.020	13.20	17.00	25.22	21.00	1.0700	46.92
.25	.56	.30	1.021	13.87	.25	.61	.33	1.0711	47.66
.50	.92	.60	1.022	14.55	.50	26.00	.66	1.0722	48.39
.75	8.28	.90	1.023	15.22	.75	.39	.99	1.0733	49.13
6.00	.64	7.20	1.024	15.90	18.00	.78	22.32	1.0744	49.86
.25	9.00	.50	1.025	16.58	.25	27.17	.65	1.0755	50.60
.50	.36	.80	1.026	17.26	.50	.56	.98	1.0766	51.34
.75	.72	8.10	1.027	17.94	.75	.96	23.31	1.0777	52.08
7.00	10.08	.40	1.028	18.62	19.00	28.36	.64	1.0788	52.82
.25	.44	.70	1.029	19.30	.25	.76	.97	1.0799	53.57
.50	.80	9.00	1.030	19.99	.50	29.16	24.30	1.0810	54.31
.75	11.16	.30	1.031	20.67	.75	.56	.63	1.0821	55.06
8.00	.52	.60	1.032	21.36	20.00	.95	.96	1.0832	55.80
.25	.96	.96	1.0332	22.05	.25	30.34	25.29	1.0843	56.55
.50	12.32	10.26	1.0342	22.74	.50	.73	.62	1.0854	57.30
.75	.68	.57	1.0352	23.43	.75	31.12	.95	1.0865	58.05
9.00	13.04	.88	1.0363	24.12	21.00	.50	26.27	1.0876	58.80
.25	.40	11.19	1.0374	24.81	.25	.87	.60	1.0887	59.56
.50	.76	.50	1.0384	25.51	.50	32.25	.93	1.0898	60.31
.75	14.12	.81	1.0394	26.20	.75	.64	27.26	1.0909	61.07
10.00	.48	12.11	1.0404	26.90	22.00	33.04	.59	1.0920	61.82
.25	.84	.42	1.0415	27.60	.25	.44	.92	1.0931	62.58
.50	15.21	.73	1.0425	28.30	.50	.84	28.25	1.0942	63.34
.75	.58	13.06	1.0436	29.00	.75	34.23	.58	1.0953	64.10
11.00	.95	.37	1.0446	29.70	23.00	.63	.91	1.0964	64.86
.25	16.32	.68	1.0457	30.41	.25	35.03	29.24	1.0975	65.63
.50	.69	14.00	1.0467	31.11	.50	.43	.57	1.0986	66.39
.75	17.07	.32	1.0478	31.82	.75	.83	.90	1.0997	67.16
					24.00	36.23	30.23	1.1008	67.92

# Do YOU want to Know Why

15,000 BREWERS IN  
ENGLAND AND AMERICA  
USE

# MALTO PEPTONE YEAST FOOD?

... Drop us a postal  
and we will be glad to tell you.

---

HIRSH & SCHOFIELD,

48 and 50 Pearl Street, - NEW YORK.

Sole Agents for United States and Canada.

---

DEALERS IN BREWERS' SUPPLIES AND COOPERAGE.

**Contents of Tanks of 60 to 240 in. Diameter  
for each Foot in Height.**

Diam.	Bbls.								
60.	4.74	85.5	9.62	111.	16.21	136.5	24.52	162.	34.54
60.5	4.82	86.	9.73	111.5	16.36	137.	24.70	162.5	34.76
61.	4.90	86.5	9.85	112.	16.51	137.5	24.88	163.	34.97
61.5	4.98	87.	9.96	112.5	16.67	138.	25.06	163.5	35.19
62.	5.06	87.5	10.08	113.	16.80	138.5	25.24	164.	35.40
62.5	5.14	88.	10.19	113.5	16.95	139.	25.42	164.5	35.62
63.	5.22	88.5	10.31	114.	17.10	139.5	25.61	165.	35.83
63.5	5.31	89	10.42	114.5	17.25	140.	25.79	165.5	36.05
64.	5.39	89.5	10.54	115.	17.40	140.5	25.98	166.	36.26
64.5	5.48	90.	10.66	115.5	17.56	141.	26.16	166.5	36.46
65.	5.56	90.5	10.78	116.	17.71	141.5	26.35	167.	36.70
65.5	5.65	91.	10.90	116.5	17.86	142.	26.53	167.5	36.92
66.	5.73	91.5	11.02	117.	18.01	142.5	26.72	168.	37.14
66.5	5.82	92.	11.14	117.5	18.17	143.	26.91	168.5	37.37
67.	5.91	92.5	11.26	118.	18.32	143.5	27.10	169.	37.59
67.5	6.00	93.	11.38	118.5	18.48	144.	27.29	169.5	37.81
68.	6.08	93.5	11.51	119.	18.63	144.5	27.48	170.	38.03
68.5	6.17	94.	11.63	119.5	18.79	145.	27.67	170.5	38.26
69.	6.26	94.5	11.76	120.	18.95	145.5	27.86	171.	38.48
69.5	6.36	95.	11.88	120.5	19.11	146.	28.05	171.5	38.71
70.	6.45	95.5	12.01	121.	19.27	146.5	28.25	172.	38.93
70.5	6.54	96.	12.13	121.5	19.43	147.	28.44	172.5	39.16
71.	6.63	96.5	12.26	122.	19.59	147.5	28.64	173.	39.39
71.5	6.73	97.	12.38	122.5	19.75	148.	28.83	173.5	39.62
72.	6.82	97.5	12.51	123.	19.91	148.5	29.03	174.	39.84
72.5	6.92	98.	12.64	123.5	20.07	149.	29.22	174.5	40.07
73.	7.01	98.5	12.77	124.	20.23	149.5	29.43	175.	40.30
73.5	7.11	99.	12.90	124.5	20.40	150.	29.61	175.5	40.53
74.	7.20	99.5	13.03	125.	20.56	150.5	29.81	176.	40.76
74.5	7.30	100.	13.16	125.5	20.73	151.	30.01	176.5	41.00
75.	7.40	100.5	13.29	126.	20.89	151.5	30.21	177.	41.23
75.5	7.50	101.	13.42	126.5	21.06	152.	30.41	177.5	41.47
76.	7.60	101.5	13.56	127.	21.23	152.5	30.61	178.	41.70
76.5	7.70	102.	13.69	127.5	21.40	153.	30.81	178.5	41.94
77.	7.80	102.5	13.82	128.	21.56	153.5	31.01	179.	42.17
77.5	7.91	103.	13.95	128.5	21.73	154.	31.21	179.5	42.41
78.	8.01	103.5	14.09	129.	21.90	154.5	31.42	180.	42.74
78.5	8.11	104.	14.23	129.5	22.07	155.	31.62	180.5	42.88
79.	8.21	104.5	14.37	130.	22.24	155.5	31.83	181.	43.11
79.5	8.32	105.	14.51	130.5	22.41	156.	32.03	181.5	43.35
80.	8.42	105.5	14.65	131.	22.58	156.5	32.24	182.	43.59
80.5	8.53	106.	14.79	131.5	22.76	157.	32.44	182.5	43.83
81.	8.63	106.5	14.93	132.	22.93	157.5	32.65	183.	44.07
81.5	8.74	107.	15.07	132.5	23.11	158.	32.85	183.5	44.31
82.	8.85	107.5	15.21	133.	23.28	158.5	33.06	184.	44.55
82.5	8.96	108.	15.35	133.5	23.46	159.	33.27	184.5	44.80
83.	9.07	108.5	15.49	134.	23.63	159.5	33.48	185.	45.04
83.5	9.18	109.	15.63	134.5	23.81	160.	33.69	185.5	45.29
84.	9.29	109.5	15.78	135.	23.98	160.5	33.90	186.	45.53
84.5	9.40	110.	15.92	135.5	24.16	161.	34.11	186.5	45.76
85.	9.51	110.5	16.07	136.	24.34	161.5	34.33	187.	46.02

# A. C. WAGNER, Engineer and Architect,

DESIGNER FOR  
BREWERIES, MALTHOUSES, WAREHOUSES, ETC.

Plans, Specifications and Estimates prepared for  
entire Breweries, Malthouses, Bottling Establish-  
ments, Grain Storage Houses and Warehouses,  
Engine and Boiler Rooms, Etc.

## Remodeling of Old Establishments,

Carefully attended to and Construction Superintended.

Furn'shes and Erects the ... ...

## A. C. WAGNER HIGHEST YIELD CERIAL MASHER.

(Patented July 12th, 1892.)

514 Walnut St., PHILADELPHIA, PA.

ESTABLISHED 1871.

# Cape Ann Isinglass Co.,

ROCKPORT, MASS.

*Manufacturers  
of the*

CAPE ANN AND EUREKA BRANDS

OF

# Pure American Isinglass.

QUALITY ALWAYS UNIFORM AND RELIABLE.

**Contents of Tanks of 60 to 240 in. Diameter  
for each Foot in Height.—(Continued.)**

Diam.	Bbls.	Diam.	Bbls.	Diam.	Bbls.	Diam.	Bbls.	Diam.	Bbls.
187.5 46.27	198.5 51.85	209. 57.48	219.5 63.41	230. 69.62					
188. 46.51	199. 52.11	209.5 57.75	220. 63.69	230.5 69.92					
188.5 46.76	199.5 52.38	210. 58.04	220.5 63.98	231. 70.22					
189. 47.01	200. 52.64	210.5 58.32	221. 64.27	231.5 70.53					
189.5 47.26	200.5 52.91	211. 58.59	221.5 64.57	232. 70.83					
190. 47.51	201. 53.17	211.5 58.87	222. 64.86	232.5 71.14					
190.5 47.76	201.5 53.44	212. 59.15	222.5 65.15	233. 71.44					
191. 48.01	202. 53.70	212.5 59.43	223. 65.44	233.5 71.75					
191.5 48.26	202.5 53.97	213. 59.81	223.5 65.74	234. 72.06					
192. 48.51	203. 54.23	213.5 59.99	224. 66.03	234.5 72.37					
192.5 48.76	203.5 54.50	214. 60.27	224.5 66.33	235. 72.68					
193. 49.02	204. 54.77	214.5 60.55	225. 66.62	235.5 72.99					
193.5 49.28	204.5 55.04	215. 60.83	225.5 66.92	236. 73.30					
194. 49.53	205. 55.31	215.5 61.12	226. 67.22	236.5 73.61					
194.5 49.79	205.5 55.58	216. 61.40	226.5 67.52	237. 73.92					
195. 50.04	206. 55.85	216.5 61.69	227. 67.81	237.5 74.23					
195.5 50.30	206.5 56.12	217. 61.97	227.5 68.10	238. 74.54					
196. 50.55	207. 56.39	217.5 62.26	228. 68.41	238.5 74.86					
196.5 50.81	207.5 56.67	218. 62.54	228.5 68.71	239. 75.17					
197. 51.07	208. 56.94	218.5 62.83	229. 69.01	239.5 75.49					
197.5 51.33	208.5 57.21	219. 63.12	229.5 69.32	240. 75.80					
198. 51.59									

To find the number of barrels contained in a tank multiply the number of barrels found in table opposite the diameter of the tank in inches by the height of the tank in feet.

To compute the number of barrels in a cask multiply the square of the diameter in inches by .00011 and the product by the height of the cask in inches.

The diameter of a cask is found by adding  $\frac{1}{6}$  of the smallest diameter to  $\frac{1}{6}$  of the largest (bung) diameter.



# OLSEN & TILGNER, *Brewers'* *Machinists*

HYDRAULIC MASH MACHINES, NON-EXPLOSIVE  
MALT MILLS, KEG SCRUBBERS,  
STEEP TANKS, ETC.

39 ONTARIO ST.,  
CHICAGO.

---

## ST. LOUIS BREWERS' GRAINS DRYING ...APPARATUS...

The Only Perfect Grains Dryer in the World.

Over 600 Drying Apparatus are now in constant operation. 550 in Europe, 64 in America, etc. Full Satisfaction in every respect guaranteed. Original Patents. Fifteen years' experience.

---

For Particulars Address:

## ST. LOUIS DRIED GRAINS CO. ST. LOUIS, MO.

---

Selling Agents: E. O. HEINSDORF CO.  
ROOM 1006 TEUTONIC BLD'G. CHICAGO.

**Circumference and Area of Circles with  
Diameters 1 to 240.**

Diam.	Circumference	Area	Diam.	Circumference	Area	Diam.	Circumference	Area
1	3.14	0.79	49	153.93	1885.74	97	304.73	7389.81
2	6.28	3.14	50	157.08	1963.49	98	307.87	7542.96
3	9.42	7.07	51	160.22	2042.82	99	311.01	7697.68
4	12.56	12.56	52	163.36	2123.71	100	314.15	7853.98
5	15.71	19.63	53	166.50	2206.18	101	317.30	8011.86
6	18.85	28.27	54	169.64	2290.21	102	320.41	8171.30
7	21.99	38.48	55	172.78	2375.82	103	323.58	8332.30
8	25.13	50.27	56	175.92	2463.09	104	326.72	8494.88
9	28.27	63.62	57	179.07	2551.75	105	329.86	8659.03
10	31.42	78.54	58	182.21	2642.08	106	333.00	8824.75
11	34.55	95.03	59	185.35	2733.97	107	336.15	8992.04
12	37.69	113.10	60	188.49	2827.43	108	339.29	9160.90
13	40.84	132.73	61	191.63	2922.46	109	342.43	9331.33
14	43.98	153.94	62	194.77	3019.07	110	345.57	9503.34
15	47.12	176.71	63	197.22	3117.24	111	348.71	9676.91
16	50.26	200.06	64	201.06	3216.99	112	351.85	9852.05
17	53.40	226.98	65	204.20	3318.30	113	355.01	10028.27
18	56.54	254.47	66	207.34	3421.18	114	358.14	10207.05
19	59.69	283.53	67	210.48	3525.65	115	361.28	10386.91
20	62.83	314.16	68	213.62	3631.68	116	364.42	10568.34
21	65.97	346.36	69	216.77	3739.28	117	367.56	10751.34
22	69.11	380.13	70	219.91	3848.45	118	370.70	10935.90
23	72.25	415.48	71	223.05	3959.19	119	373.81	11122.04
24	75.39	452.39	72	226.19	4071.50	120	376.99	11309.76
25	78.54	490.87	73	229.33	4185.38	121	380.13	11499.04
26	81.68	530.93	74	232.47	4300.84	122	383.27	11689.89
27	84.82	572.55	75	235.61	4417.86	123	386.41	11882.31
28	87.96	615.75	76	238.76	4536.45	124	389.55	12076.31
29	91.10	660.52	77	241.90	4656.62	125	392.70	12271.87
30	94.24	706.85	78	245.04	4778.36	126	395.84	12469.01
31	97.38	754.76	79	248.18	4901.66	127	398.98	12667.71
32	100.53	804.24	80	251.32	5026.54	128	402.12	12867.99
33	103.67	855.29	81	254.46	5153.00	129	405.26	13069.84
34	106.81	907.93	82	257.61	5281.01	130	408.10	13273.26
35	109.95	962.11	83	260.75	5410.59	131	411.54	13478.24
36	113.09	107.87	84	263.89	5541.77	132	414.69	13694.80
37	116.23	1075.21	85	267.03	5674.50	133	417.83	13892.94
38	119.38	1134.11	86	270.17	5808.80	134	420.97	14102.64
39	122.52	1194.59	87	273.31	5944.67	135	424.11	14313.91
40	125.66	1256.63	88	276.46	6082.11	136	427.25	14526.75
41	128.80	1320.25	89	279.60	6221.13	137	430.39	14741.17
42	131.94	1385.44	90	282.74	6361.72	138	433.54	14957.15
43	135.08	1452.20	91	285.88	6503.87	139	436.68	15174.71
44	138.23	1520.52	92	289.02	6647.61	140	439.82	15393.84
45	141.37	1590.43	93	292.16	6792.90	141	442.96	15614.53
46	144.51	1661.90	94	295.31	6939.78	142	446.10	15836.80
47	147.65	1734.94	95	298.45	7088.21	143	449.24	16060.64
48	150.79	1809.55	96	301.59	7238.23	144	452.39	16286.05

THE



VILTER  
MANUFACTURING  
COMPANY

(Associate Members U. S. Brewers' Association)

BUILDERS OF IMPROVED

Refrigerating and Ice Making

MACHINERY.

COMPRESSION, EMPLOYING LIQUID  
ANHYDROUS AMMONIA.

CORLISS ENGINES....

*Outfit for Brewers and Bottlers.*

BECHER STREET,

MILWAUKEE, WIS.

**Circumference and Area of Circles with  
Diameters 1 to 240.—Continued.**

Diam.	Circumference	Area	Diam.	Circumference	Area	Diam.	Circumference	Area
145	455.53	16513.03	177	556.06	24605.79	209	656.59	34307.05
146	458.67	16714.58	178	559.20	24884.61	210	659.73	34636.14
147	461.81	16917.70	179	562.34	25165.00	211	662.87	34966.79
148	464.95	17203.40	180	565.48	25446.96	212	666.01	35299.01
149	468.09	17436.66	181	568.62	25730.48	213	669.16	35632.81
150	471.24	17671.50	182	571.77	26015.58	214	672.30	35968.17
151	474.38	17907.90	183	574.71	26302.26	215	675.44	36305.11
152	477.52	18145.88	184	578.05	26590.50	216	678.58	36643.62
153	480.66	18385.42	185	581.19	26880.31	217	681.72	36983.70
154	483.80	18626.54	186	584.33	27171.69	218	684.86	37325.34
155	486.94	18869.23	187	587.47	27464.65	219	688.01	37668.56
156	490.08	19113.49	188	590.62	27759.17	220	691.15	38013.36
157	493.23	19359.32	189	593.76	28055.27	221	694.29	38359.72
158	496.37	19606.72	190	596.90	28352.94	222	697.43	38707.65
159	499.51	19855.69	191	600.04	28652.17	223	700.57	39057.51
160	502.65	20106.04	192	603.18	28952.98	224	703.71	39408.23
161	505.79	20358.35	193	606.32	29255.36	225	706.86	39760.87
162	508.93	20612.03	194	609.47	29559.31	226	710.00	40115.09
163	512.08	20876.20	195	612.61	29864.83	227	713.14	40470.87
164	515.22	21124.11	196	615.75	30171.92	228	716.28	40828.23
165	518.36	21382.51	197	618.89	30480.60	229	719.42	41187.16
166	521.50	21642.48	198	622.03	30790.82	230	722.56	41547.66
167	524.64	21904.02	199	625.17	31102.52	231	725.70	41909.72
168	527.78	22167.12	200	628.32	31416.00	232	728.85	42273.36
169	530.93	22431.80	201	631.46	31730.94	233	731.99	42638.58
170	534.07	22698.06	202	634.60	32047.46	234	735.13	43005.36
171	537.31	22965.88	203	637.74	32365.54	235	738.27	43373.71
172	540.35	23235.27	204	640.88	32685.20	236	741.41	43743.63
173	543.49	23506.23	205	644.02	33006.43	237	744.55	44115.11
174	546.03	23778.77	206	647.16	33329.23	238	747.69	44488.19
175	549.78	24052.87	207	650.31	33653.60	239	750.84	44862.83
176	553.92	24328.55	208	653.45	33979.54	240	753.98	45239.04



# The National Filter & Carbonating Co.

118-120 North Ave.,  
CHICAGO.



#### HAS MET THE DEMAND FOR A FILTER:

that would do the work of expensive Filters,  
and at a price that would place it within the  
reach of those brewers not willing to pay  
\$2,000 or \$2,500 for a Beer Filter. \* \* \* \*

---

No Interference, No Trouble, No Loss.  
200 in Use.

---

#### IMPORTANT:

WE FURNISH a License from the German American  
Filter Co. to every user of the National Beer Filter.  
Write for Catalogue of Testimonials and Prices.

## Squares and Cubes, and Square and Cube Roots of Nos. from 1 to 100.

No.	Square.	Cube.	Square root.	Cube root.	No.	Square.	Cube.	Square root.	Cube root.
1	1	1	1	1	51	2601	132651	7.1414	3.7084
2	4	8	1.4142	1.2599	52	2704	140608	7.2111	3.7325
3	9	27	1.7321	1.4422	53	2809	148877	7.2801	3.7563
4	16	64	2.	1.5874	54	2916	157464	7.3485	3.7798
5	25	125	2.2361	1.7100	55	3025	166375	7.4162	3.8030
6	36	216	2.4495	1.8171	56	3136	175616	7.4833	3.8259
7	49	343	2.6458	1.9129	57	3249	185193	7.5498	3.8485
8	64	512	2.8284	2.0000	58	3364	195112	7.6158	3.8709
9	81	729	3.0000	2.0801	59	3481	205379	7.6811	3.8930
10	100	1000	3.1623	2.1544	60	3600	216000	7.7460	3.9149
11	121	1331	3.3166	2.2240	61	3721	226981	7.8102	3.9365
12	144	1728	3.4641	2.2894	62	3844	238328	7.8740	3.9579
13	169	2197	3.6056	2.3513	63	3969	250047	7.9373	3.9791
14	196	2744	3.7417	2.4101	64	4096	262144	8.0000	4.0000
15	225	3375	3.8730	2.4662	65	4225	274625	8.0623	4.0206
16	256	4096	4.0000	2.5198	66	4356	287496	8.1240	4.0412
17	289	4913	4.1231	2.5743	67	4489	300763	8.1854	4.0615
18	324	5832	4.2426	2.6207	68	4624	314432	8.2462	4.0817
19	361	6859	4.3589	2.6684	69	4761	328509	8.3066	4.1016
20	400	8000	4.4721	2.7144	70	4900	343000	8.3666	4.1213
21	441	9261	4.5826	2.7589	71	5041	357911	8.4261	4.1408
22	484	10648	4.6904	2.8020	72	5184	373248	8.4853	4.1602
23	529	12167	4.7958	2.8439	73	5329	389017	8.5440	4.1793
24	576	13824	4.8990	2.8845	74	5476	405224	8.6023	4.1983
25	625	15625	5.0000	2.9240	75	5625	421875	8.6603	4.2172
26	676	17576	5.0990	2.9625	76	5776	438976	8.7178	4.2358
27	729	19683	5.1962	3.0000	77	5929	456533	8.7750	4.2543
28	784	21952	5.2915	3.0366	78	6084	474552	8.8318	4.2727
29	841	24389	5.3852	3.0723	79	6241	493039	8.8882	4.2908
30	900	27000	5.4772	3.1072	80	6400	512000	8.9443	4.3089
31	961	29791	5.5678	3.1414	81	6561	531441	9.0000	4.3267
32	1024	32768	5.6569	3.1748	82	6724	551368	9.0554	4.3445
33	1089	35937	5.7446	3.2075	83	6889	571787	9.1104	4.3621
34	1156	39304	5.8310	3.2396	84	7056	592704	9.1652	4.3795
35	1225	42875	5.9161	3.2711	85	7225	614125	9.2195	4.3968
36	1296	46656	6.0000	3.3019	86	7396	636056	9.2736	4.4140
37	1369	50653	6.0828	3.3322	87	7569	658503	9.3274	4.4310
38	1444	54872	6.1644	3.3620	88	7744	681472	9.3808	4.4480
39	1521	59319	6.2450	3.3912	89	7921	704969	9.4340	4.4647
40	1600	64000	6.3246	3.4200	90	8100	729000	9.4868	4.4814
41	1681	68921	6.4031	3.4482	91	8281	753571	9.5394	4.4979
42	1764	74088	6.4807	3.4760	92	8464	778688	9.5917	4.5144
43	1849	79507	6.5574	3.5034	93	8649	804357	9.6437	4.5307
44	1936	85184	6.6332	3.5303	94	8836	830584	9.6954	4.5468
45	2025	91125	6.7082	3.5569	95	9025	857375	9.7468	4.5629
46	2116	97336	6.7823	3.5830	96	9216	884736	9.7980	4.5789
47	2209	103823	6.8557	3.6088	97	9409	912673	9.8489	4.5947
48	2304	110592	6.9282	3.6342	98	9604	941192	9.8995	4.6104
49	2401	117649	7.0000	3.6593	99	9801	970299	9.9499	4.6261
50	2500	125000	7.0711	3.6840	100	100000	1000000	10.0000	4.6416

FOR ALL KINDS OF

Brewers'  
Tanks and  
Cooperage

SEE

**OLSON**

TANK AND COOPERAGE WORKS,

359-361 W. Lake St.,

Telephone  
West 1053.

**CHICAGO, ILL.**

ESTIMATES FURNISHED ON APPLICATION.

**Pounds per Bushel and Cubic Feet.**

ARTICLES.	Per bu.	Cubic ft.	ARTICLES.	Per bu.	Cubic ft.	
Rye.....	56	44	No. 3' 88 Dakota barley,			
Oats.....	32	25	air dry....	48	38	
Potatoes.....	60	48	steeped.....	72	57	
Wheat.....	60	48	green malt...	40	32	
Maize, white.....	56	44	high kiln dried	34	27	
" grits.....	54	43	low kiln dried	35	28	
" meal.....	47	37	stored.....	36	29	
Rice, broken.....	58	46	cleaned.....	35	28	
" meal.....	48	38	coarsely			
Salt.....	50	40	crushed....	26	21	
Lime.....	70	56	finely crushed	25	20	
Sand.....	122	98	Malt sprouts.....	20	16	
Portland cement.....	96	78	Ice.....	57		
Coke.....	35	28	The figures in this column were from the <i>Brewers' Calendar</i> and were determined by Mr. C. BIRK- HOFFER.			
Anthracite coal...	68	54				
Bituminous coal...	61	49				
Charcoal .....	22	18				

# Pure Yeast Culture.

## COURSES OF SIX WEEKS.

Pure Yeast sent in packages of four, eight and sixteen gallons at nominal prices.

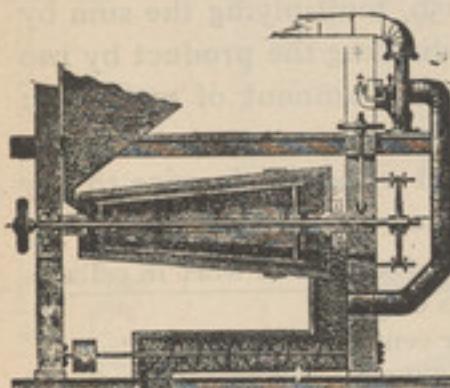
ADDRESS: \_\_\_\_\_

**WAHL & HENIUS.**

294 S. Water Street,

CHICAGO.

## CHARLES RILLING, Machine and Millwright Works,



*Builder in all Branches  
of Machinery.*

Brewers' and Malsters'  
Work a Specialty.

*Hangers, Shafting and  
Pulleys.*

Richter & Schaefer Malt Cleaning  
and Polishing Machine.

518-522 WEST 35th STREET,

NEW YORK.

## HEYMAN & FISCHER,

Manufacturers of  
and Dealers  
in . . .

32 Stone Street,  
NEW YORK.

## Brewers' Supplies and Machinery.

AGENTS FOR  
**A. Boake, Roberts & Co.**  
London, England.  
**K. M. S.**

AGENTS FOR  
**J. Schwarzwaldner & Sons,**  
Mfrs. of Cooperage,  
New York, - Louisville.

**The Determination of the Yield According to  
R. Wahl's Method.**

By adding the degrees Balling as indicated by the saccharometer to 259, multiplying the sum by the degrees Balling and dividing the product by 100 we obtain a figure giving the amount of extract in pounds per barrel of beer. Hence we are in a position of figuring the yield without reference to any table by applying the following formula, viz.

$$\frac{[(259 + \text{Balling}) \times \text{Balling}] \times \text{bbls. of wort in cellar}}{\text{Pounds of grist.}}$$

= yield of extract in per cent.

This formula, which it is easy to remember, will be especially useful where reference to a table cannot be had. In explanation of the formula we will say that by adding the degrees Balling to 259 we get a figure which, with almost absolute correctness, gives the weight of a barrel of wort of the same saccharometer indication. In this manner we can dispense with the knowledge of the specific gravity of the wort which we do no longer need for the determination of the extract, *i. e.* the yield. Knowing the weight of a barrel of wort of any concentration whatsoever we can thus easily figure out the amount of extract per barrel by multiplying the barrel weight by the per cents Balling and dividing by 100.

By multiplying the pounds of extract per barrel with the number of barrels in the cellar and dividing the product by the weight of the grist we obtain the yield in per cents

For instance, a brew resulted in 171 barrels of 14.2% Balling. The material employed was 7,900 lbs. of malt and 2,300 lbs. of grits. What was the yield?

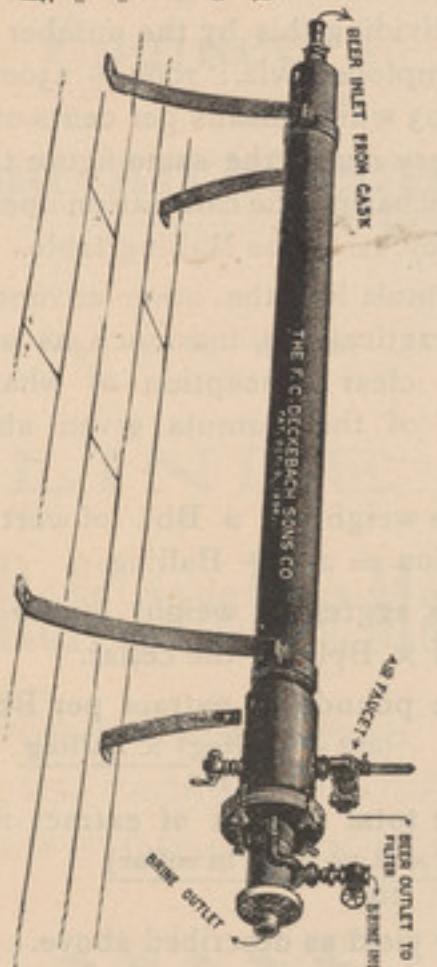
$$\frac{[(259 + 14.2) \times 14.2] \times 171}{(7,900 \times 2,300)} = 65.03\%$$

# "Patent Carbonic Gas Liquid Cooler."

## Deckebach's Apparatus

ist der einzige, in welchem  
das Bier **ohne Zusatz**  
tritt abgeführt wird.

Der Apparat wird zwis-  
chen Fass und Filter ein-  
geschaltet. Abführung auf  
30—31° F.



Abführung durch  
Brine  
oder  
Ammonia.

Kein Schaum,

daher kein  
Röhrenfärre-  
Verlust.

F. E. Deckebach Sons Co.,

CINCINNATI, OHIO.

**The Determination of the Yield According to  
R. Wahl's Method—Continued.**

By adding the per cents Balling, viz.: 14.2 to 259, we get 273.2 being the weight of a barrel of wort of 14.2%. This weight multiplied by 14.2 gives us 3879.44 and divided by 100 = 38.79 being the pounds of extract per barrel, which multiplied by the number of barrels in the cellar, viz.: 171, gives us the total extract in this brew, viz.: 6633.84 lbs. By dividing this by the number of pounds of material employed, viz.:  $7900 + 2300 = 10200$ , we obtain 65.03 which means per cents of extract and which is very nearly the same figure that would be obtained by basing the calculation upon the specific gravity or by using the Balling table.

The formula has the other advantage that it is a purely practical one, inasmuch as at every step we have a clear conception of what we figure. By means of the formula given above we can ascertain:

1. The weight of a Bbl. of wort of a certain concentration =  $259 + \text{Balling}$ .
2. The aggregate weight of the wort =  $(259 + \text{Balling}) \times \text{Bbls. in the cellar}$ .
3. The pounds of extract per Bbl. = 
$$\frac{(259 + \text{Balling}) \times \text{Balling}}{100}$$
4. The total amount of extract in a brew = 
$$\frac{[(259 + \text{B.}) \times \text{B.} \times \text{Bbls. in cellar}]}{100}$$
5. The yield as described above.

THE  
**FRED W. WOLF CO.**  
Engineers  
and Architects.



LINDE

Ice and Refrigerating Machines

FOR ICE FACTORIES,  
BREWERIES, PACKING HOUSES AND  
COLD STORAGE HOUSES.



OFFICES:

139-143 Rees St., 302-330 Hawthorne Ave.

WORKS:

CHICAGO, ILL., U. S. A.

# Imports and Exports

OF

## Hops, Barley, Barley - Malt, and Granulated Rice Meal and Flour,

*During the Fiscal Years below Enumerated.*

### HOPS.

(Import duty since 1890, 15 cents per pound; before that it was 8 cents per pound.)

#### Imports of Foreign Hops.

	Pounds.	Value in Dollars.
1895.....	3,133,664	599,744
1894.....	828,022	484,415
1893.....	2,691,244	1,085,407
1892.....	2,506,224	883,701
1891.....	4,019,603	1,797,406
1890.....	6,539,516	1,053,616
1889.....	4,176,158	1,155,472
1888.....	5,587,275	1,018,086
1887.....	16,618,829	3,117,662
1886.....	2,723,971	440,216
1885.....	1,638,427	435,106
1884.....	696,897	303,260
1883.....	1,977,715	1,490,026
1882.....	874,558	288,344

#### Exports of Domestic Hops.

	Pounds.	Value in Dollars.
1895.....	17,523,388	1,872,597
1894.....	17,472,975	3,844,232
1893.....	11,367,030	2,695,867
1892.....	12,604,686	2,420,502
1891.....	8,736,080	2,327,474
1890.....	7,540,854	1,110,571
1889.....	12,589,262	2,823,832
1888.....	6,793,818	1,203,060
1887.....	260,721	54,970
1886.....	13,665,661	1,714,488
1885.....	7,055,289	1,391,854
1884.....	13,516,643	3,265,211
1883.....	7,817,228	5,616,370

## ATTENTION!!

Nearly 100 of . .

"Ideal" Patent Pitching Machines have been sold last season, and those using same claim to have the best pitched packages at the least cost. With Power connections also. Send for Circular and Price List.

Arnemann's Patent Pitching Machines are still the ONLY smokeless machines (Ausbrenner) in the market. All well-appointed Breweries have been supplied.

Our Improved Patent Counter Pressure Racking Apparatus are a perfect success; viz.: *Rest Beer Reduced to a Minimum.* Carbonic Acid Gas retained while racking, etc. Send for list of References, Circulars and Price List.

**H. TORCHIANI,**

43 and 45 Centre Street.

NEW YORK.

*Manufacturers of the above and*  
**PATENT AUTOMATIC ROLLING MACHINES,**  
**KEG SCRUBBING MACHINES, ETC., ETC.**

**BERNHARD BING,**

**Importer of**

**FINE  
GRADE**

**HOPS,**

**SAAZ, NUREMBERG.**

No. 20 Exchange Place,

**NEW YORK.**

**BARLEY.**

(Import duty since 1884, 10 cents per bushel; before that it was 15 cents per bushel. Import duty since 1890, 30 cents per bushel.)

**Importation of Foreign Barley.**

	Bushels.	Value in Dollars.
1895.....	2,116,816	867,735
1894.....	791,061	358,744
1893.....	1,970,129	921,605
1892.....	3,146,328	1,592,040
1891.....	5,078,733	3,322,593
1890.....	11,332,545	5,629,849
1889.....	11,368,414	7,723,838
1888.....	10,831,461	8,076,083
1887.....	10,336,875	6,152,825
1886.....	9,975,088	6,899,960
1885.....	9,086,813	6,380,601
1884.....	8,661,715	5,949,256
1883.....	9,994,066	7,573,493
1882.....	12,221,778	10,888,628

**Exportation of Domestic Barley.**

	Bushels.	Value in Dollars.
1895.....	1,563,754	767,228
1894.....	5,219,405	2,379,714
1893.....	3,035,267	1,468,843
1892.....	2,800,075	1,751,445
1891.....	973,062	669,203
1890.....	1,408,311	754,605
1889.....	1,440,321	853,490
1888.....	550,884	317,239
1887.....	1,305,300	853,405
1886.....	252,183	166,330
1885.....	629,130	346,302
1884.....	724,955	403,622
1883.....	433,005	299,137

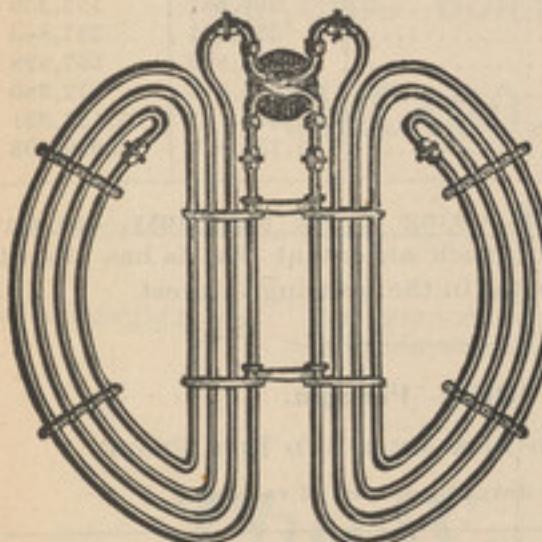
FRED. ORTH.

Established 1852.

ANTHONY REISERT.

# ANTHONY REISERT & FRED. ORTH, Coppersmiths,

181 Prince & 122 Sullivan Sts., NEW YORK.



STEAM BOILING APPARATUS.

SELF-ACTING COPPER MASHING MACHINES  
SELF-ACTING REVOLVING SPARGES.

All sizes of the  
Latest Improvements  
of...

BREWERS'  
STEAM KETTLES,  
BEER COOLERS,  
STEAM BOILING  
APPARATUS,

...Copper and Iron FALSE BOTTOMS for Mash Tubs...  
COPPER TANKS, STEAM COILS, &c.

ALSO CONSTANTLY ON HAND AND FOR SALE

New and Second-Hand Coolers and Brewers' Kettles.

ALL ORDERS WILL RECEIVE PROMPT ATTENTION.

**BARLEY-MALT—Foreign.**

New tariff, 45 cents per bushel.

(Import duty since 1884, 20 cents per bushel; before that year it was 20 per cent ad valorem.)

	Bushels.	Value in Dollars.
1895 . . . . .	11,069	7,495
1894 . . . . .	5,070	5,676
1893 . . . . .	3,559	4,411
1892 . . . . .	5,165	6,148
1891 . . . . .	123,083	78,433
1890 . . . . .	217,586	161,666
1889 . . . . .	150,182	111,381
1888 . . . . .	216,757	164,585
1887 . . . . .	209,967	153,359
1886 . . . . .	323,091	237,843
1885 . . . . .	378,896	267,928
1884 . . . . .	155,816	112,580
1883 . . . . .	1,355,112	1,124,331
1882 . . . . .	1,135,867	1,099,203

The importation, owing to the high duty, has decreased since 1891 to such an extent that it has almost disappeared as a factor in the brewing interest.

**RICE—Foreign.****GRANULATED RICE MEAL AND RICE FLOUR.**

(Import duty, 20 per cent ad valorem.)

	Pounds.	Value in Dollars.
1895 . . . . .	78,262,909	1,091,538
1894 . . . . .	55,351,281	833,843
1893 . . . . .	66,451,884	1,191,526
1892 . . . . .	62,991,524	1,097,436
1891 . . . . .	81,259,519	1,389,408
1890 . . . . .	55,667,174	927,067
1889 . . . . .	54,130,597	898,288
1888 . . . . .	54,807,500	848,688
1887 . . . . .	48,526,783	762,302
1886 . . . . .	36,767,183	627,003
1885 . . . . .	38,426,302	672,092
1884 . . . . .	.....	517,851
1883 . . . . .	.....	463,335
1882 . . . . .	.....	239,001

E. O. HEINSDORF & CO.,

*...SPECIAL...*

BREWERS'  MACHINERY

TEUTONIC BUILDING.

CHICAGO.

---

C. A. PURCELL, Pres. JOS. GUCKENHEIMER, Vice Pres-Treas.  
J. F. NORTON, Secretary.

---

The W. H.  
*Purcell Co.,*

CAPACITY 1,750,000.

---

PNEUMATIC DRUM MALT.

---

*Chicago, Ill.*

**Import of Foreign Beer, Ale, Porter and other Malt Liquors for the last ten fiscal years.**

	Gallons.	Value.
1886.....	2,256,193	\$1,231,388
1887.....	2,292,095	1,255,164
1888.....	2,516,894	1,363,858
1889.....	2,530,681	1,361,990
1890.....	2,680,030	1,427,608
1891.....	3,482,977	1,765,702
1892.....	2,929,581	1,709,960
1893.....	3,365,389	1,940,370
1894.....	2,910,540	1,510,767
1895.....	2,971,676	1,514,845

**Export of Beer and Ale of Domestic Produce.**

	IN BOTTLES.		IN CASKS.	
	Dozens.	Value in Dollars.	Gallons.	Value in Dollars.
1870.....	1,076	2,250	66,467	23,759
1871.....	1,570	4,077	105,213	34,301
1872.....	2,205	5,340	77,639	27,829
1873.....	3,443	7,712	103,009	36,743
1874.....	2,897	6,245	99,135	33,357
1875.....	3,623	7,600	61,661	16,604
1876.....	7,045	13,007	99,310	29,657
1877.....	37,847	51,077	144,224	40,138
1878.....	76,475	108,279	119,579	38,918
1879.....	125,873	204,282	93,014	34,087
1880.....	146,739	262,450	111,308	36,368
1881.....	164,276	292,421	201,376	55,367
1882.....	176,426	328,405	141,978	55,791
1883.....	220,792	409,348	215,938	81,094
1884.....	238,228	451,681	236,896	73,089
1885.....	233,816	436,321	170,118	55,097
1886.....	352,898	590,608	233,941	76,755
1887.....	372,432	590,378	203,972	66,335
1888.....	395,424	644,125	146,226	42,717
1889.....	375,059	575,089	170,059	50,307
1890.....	395,373	583,927	258,411	70,481
1891.....	413,278	602,641	242,991	69,602
1892.....	402,358	589,784	260,724	68,150
1893.....	417,704	600,319	245,497	65,219
1894.....	351,615	471,589	307,077	77,390
1895.....	426,777	492,448	258,620	66,322

## Production of Malt Liquors in 1895.

	No. of Breweries in Operation.	Amount of Beer Produced. Bbls.
Austria-Hungary 1895.....	1,747	16,570,542
" " 1894.....	1,775	15,640,229
- Increase or decrease 1895.....	-28	+930,313
Germany—		
Imperial Customs District—Northern States.....	7,225	28,945,720
Bavaria.....	6,550	12,933,087
Baden.....	1,669	1,471,959
Wurtemberg.....	5,845	2,976,165
Alsace-Lorraine .....	106	740,747
Total in 1895.....	21,395	47,067,678
" " 1894.....	21,833	47,285,545
Increase or decrease.....	-438	-217,867
Great Britain and Ireland.....	8,937	45,159,361
Belgium.....	2,914	8,127,723
Luxemburg.....	12	102,141
France.....	2,627	7,554,957
Russia .....	1,148	3,890,678
Denmark .....	332	1,684,217
Netherlands.....	467	1,262,971
Spain .....	49	109,376
Switzerland.....	321	1,345,168
Sweden.....	548	1,234,101
Norway.....	45	457,746
Italy.....	113	82,431
Roumania.....	30	263,238
Servia.....	11	87,479
Bulgaria.....	21	47,896
Greece.....	8	54,750
Total.....	17,583	71,464,233
India—		
British India and European possessions .....	35	246,398
America (including South America, etc.) .....	2,238	47,199,155
Total number of breweries in operation in 1895.....	42,998	.....
Amount of beer brewed in 1895.....	.....	182,558,006

# INDEX.

---

Breweries in the United States, Classified According to the Number of Barrels of Beer Sold During the Year Ending June 30, 1895.....	17
Breweries in the Dominion of Canada.....	86
Breweries in Mexico .....	91
Brewers' Supply Dealers and Auxiliary Manufacturing Trades.....	100
Circumference and Area of Circles with Diameter 1 to 240.....	162-164
Comparison of the Thermometer Scales of Reaumur, Fahrenheit and Celsius.....	154
Comparison of Different Saccharometers with Specific Gravity and Giving Pounds of Extract in Wort per Bbl. of 31 Gal.....	156
Contents of Tanks of 60 to 240 Inches Diameter for Each Foot in Height .....	158-160
Determination of the Yield According to R. Wahl's Method, The.....	170-172
Imports and Exports of Hops, Barley, Barley-Malt and Granulated Rice Meal and Flour.....	174-178
Imports and Exports of Ale, Porter, Beer and other Malt Liquors.....	180
Key to References.....	15
Maltsters in Canada (not Brewers.).....	99
Maltsters in the United States (not Brewers).....	92
Measures and Weights .....	9-13
Pounds per Bushel and Cubic Feet .....	168
Production of Malt Liquors 1894.....	181
Squares and Cubes, and Square and Cube Roots of Nos from 1 to 100 .....	166

---

**E. GOLDMAN & CO.,**

MANUFACTURERS

IMPORTERS AND DEALERS IN

**General Brewers' Supplies,**

10 AND 12 RIVER STREET,

CHICAGO.

# American Brewing Academy.

TWC MAY 16 1913

JAN 20 1914

six-

WAHL & HENNEMAN,

294 SOUTH WATER ST.,

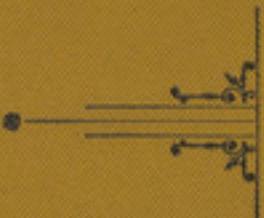
...CHICAGO, ILL.

**THE HAUSER, BRENNER  
& FATH CO.,**

CINCINNATI, O.,  
U. S. A.



**Our Specialty**

 Storage Tubs,  
Fermenting Tubs,  
Chip Casks and Tubs.



**Beer Barrels,**

HALF BARRELS,  
QUARTER BARRELS,  
SIXTH BARRELS,  
EIGHTH BARRELS,

**Repair Shooks, etc., etc.**

**CAPACITY, 1,200 PACKAGES DAILY.**