Sec. 46-7 : Page 8  
Watchman Supervisory Systems  
  
INTERNATIONAL é i  
Made by Inrexxartonat Business Macuints Conrona :  
nce Recouine Division, general ofices, $0 Breed Street, “fyai\*=RmAn ‘writers  
Works, Endicott, New York, and Toronto, Ontario, Canada, Soi,” ork 4  
centralty controlled sles force through branch ofices'in all pring if  
the worl  
  
Sec. 47-1: Portable Typewriters  
Lox tocaLizeD List oF SALES REPRESENTATIVES, SEE chez Picna  
‘The records made by this system are printed on a tape  
  
\_ Sec. 47-2: Standard Typewriters  
anise master recorder which can be located in any part of Sec. 47-3: Motorized Typewriters  
  
Sec. 47 : Page 1  
Typewriters  
  
fers operated electrically from remote control, see Message Re-  
s, Section No. 27-4.  
iters equipped for addressing stencils for use with addressing  
ipewriters equipped for the quick and convenient inserting of  
Is, see Addressing Machines, Section No. 4.  
iters ort ie typing index lines on visible record forms, see  
d Equipment, Section No. 49.  
ters equipped for billing purposes, also typewriters for writing  
forms, see Billing Machines, Section No. 7.  
  
i, epetekes, for bookkeeping purposes, see Bookkeeping Ma-  
fo. 8.  
  
rs equipped for writing in bound books, see Elliott-Fisher de-  
1 Section No. 7.  
iters equipped for writing form letters automatically,  
  
see Type  
and Printers, Section No 19-1,  
  
iters are used so universally, and have become so in-  
@ part of business, little need be said herein as to the  
of their use and the scope of their performance and adapta-  
  
erences in construction are brought out in individual de-  
and, simply as a measure of assurance that the terms as  
‘ly understood, the following explanation concerning the  
  
dards of construction, is offered.  
SPECIMEN RECORD $1  
  
combining employees an  
watchman’s regists D” TYPES  
  
Standard Typewriter, as used herein, refers to full size  
as commonly used in offices, as distinguished from Port-  
writers, also suitable for office as well as for traveling and  
which are of more compact construction and lighter in  
  
27a  
A20uU 27 \_ ae d ‘Typewriters is the term used to designate the recent ap-  
  
SPECIMEN LOCK RECORD C3—Identifies station from electric motor power to the mechanical operation of type-  
  
7 i Typewriters so equipped have been referred to elsewhere as  
papier w—Showe Sririneon ae writers", giving rise to the belief, in the mind of the  
er, that the operation of the typewriter is accomplished by  
  
© U—Shows door was unlocked (U by Watchman (WV). ; means Sey ean  
from the outeige (Oy ne Hour underscored for Pe tis oniviy miochanieal jartveniie ce tiate paonsuaaiee iat  
: The record is made in one. line and shows an Initia renresctaam S 0 ‘This newest development of typewriter construction is  
watchman, number designating the st ion from whic! 7 dit tie No. 47-3,  
and the time he registered, (the date, hour and minute). As many § eee’ tn ection Ho. 47-2  
tions may be connected in the one system. ; TYPE P: N  
  
As stated in Section No. 46-1, the same master recorder in which @ Pita ie)  
  
made the records of watchman's visits to various parts of the P rr cepted standard of construction, if prevailing practice is an  
can also be used for recording the time of locking or unlocking ee is the front, or front-and-down stroke type bar operation.  
equipped with this company’s recording lock units, and may al80 8 models the down stroke is more pronounced, due to the  
as an in-and-out recorder for employees who, to’ identify themsel Ounting the carriage as low as possible to conserve the over-  
sign their names beside each time imprint. ‘Thus the same recoe it of the machine. Wither construction derives its principal  
tape may carry printed records of door lock operations, employ™™ om the need for visibility of the writing line, but it has also  
in-and-out registrations and watchman’s registrations. the most acceptable for other most important constructional  
me enuek 3500, apie clock, including batteries, et 0, considerations.  
oor lock, per each, extra..... ‘ ful noiseless t:  
¢ ypewriter construction has likewise used the  
Watchman’s station, per each, extri 4 of front stroke type bar operation, ‘  
  
a a a  
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EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47 : Page 2  
Typewriters  
  
Sec. 47 : Page 3  
Typewriters  
  
standard equipment. In isolated instances some manu-  
  
inue to furnish typewriters with three- as well as four-  
  
but the three-row models are subsidiary to the four-,  
  
principally for home use.  
  
gsent day trend of construction is to locate shift keys at both  
sides of the keyboard, and to incorporate in the keyboard  
control keys, such as backspacer, single-key tabulator  
  
CARRIAGE SHIFT AND BASKET SHIFT  
  
Carriage Shift means that the depression of the shift ic  
the writing of capitals, raises the carriage (hence, also ify P  
the carriage) to the position to receive the Impression from thé  
character on the type bar. '  
  
Basket Shift (also called the Segment Shift) means that the  
section of the machine in which the type bars are mounted, (wn  
basket), is moved when the shift keys are depressed for’ ¢{tlled TABULATORS  
depressed: when the rp ied tectos y ringing the upp ey tabulator is controlled from a single key on the key-  
character on the'type bar’ into proper position of alignment 4 is suitable for all general forms of correspondence typing.  
writing line. ces are tabulated by backspacing, since a single-key tabu-  
  
The user of typewriters equipped with the standard, correspong,, the movement of the carriage always at the same decimal  
paper width of carriage, (for letterheads, ete., up to 10” in wiatnnae each place on the sheet for which a stop is set.  
not concern himself with this distinction in construction. "The ey MN Rintci'!plaa’'a key: ten; casi decliial poaltiaa vas bach  
and convenience of either style are about equal on narrow ¢, osition as denoted by the stop set. It eliminates the necessity  
machines, F ng, and permits tabulation to the exact decimal position  
  
Basket shift construction has certain advantages, however, in Decimal tabulators are principally employed on type-  
writers equipped with wide carriages. Since no difference exists tended for billing, invoicing, statistical or tabular work.  
size or construction of the type segment (basket) of typew no special conveniences beyond those supplied by a single-  
equipped with wide: carriages, 8s compared with those equipped tor on typewriters for ordinary correspondence.  
  
Sime tace mone FE re be some variations of the above types of tabulators, such as  
narrow pCOn eee ene nite Key, The beakegy tabulator, representing a multiple arrangement of a  
Speen) ms Toor on by tne anite kere, ‘tabulator, to stop the carriage at five different positions,  
  
It is obvious that, since the weight of a carriage increases in p ition paragraph indentations, complementary close, etc.  
  
portion to its length, machines equipped with carriage shift requi Msitions, where required are tabulated by backspacing from  
lifting of a greater weight in shifting on wide carriage machines ‘ red stopping position: i  
  
they do on standard size carriage models. Most manufacturers  
come this by the application of counter weights and compoundin p es  
leverages of the shift keys. ; CARRIAGES  
  
a carriage, measured by the maximum width of the sheet  
  
KEYBOARDS 1 accommodate and the length of the writing line, is to  
  
naturally, by the character of the work for which the  
  
Typewriters with their keyboards arranged in four rows are intended. Standard size carriages, for machines for  
have Standard keyboards. Those having their keyboards ar sed ng, take paper 10” to 11” wide, and write a line 8” to 9”  
three rows are considered to have Universal keyboards. lly all manufacturers of standard size typewriters sup-  
  
ith wider carriages. Each stock size is approximately 2”  
the next smaller size. The widest are 30” and 36”.  
exceptions, wide carriage equipment is not possible of  
  
narrower carriage models. Separate complete machines  
| for wide sheets.  
  
nufacturers equip their machines with removable and  
  
ble platens, so that for manifolding work a hard rubber  
  
ten for best results in single carbon typing. Special  
e platens are also furnished for such machines for hold-  
d labels firmly in place while being typed.  
  
NOISE REDUCING FEATURES  
  
one make of noiseless typewriter on the American  
  
most manufacturers, in recent years, have incorporated  
  
' features in the mechanisms of their machines, sound  
  
naterials and construction in the frames and housings, and  
  
d new ideas in platens, all of which make for more quiet,  
‘ing sound of operation,  
  
in essential qualities has been permitted however. It is  
  
Upper: 3-row KEYBOARD 3 that a mechanism such as a typewriter which is designed  
  
Lower: 420w xErs0an> folding blows of the type bars, quality of impression and  
  
; unless constructed on true noiseless principles, be en-  
  
the sound of operation associated with well constructed  
  
Unquestionably, custom and usage have secured a place  
four-row keyboard that must endure.  
  
Operators trained through years of schooling and expert : j TYPE FACES  
it, and the leading, successful manufacturers of ty? Ness concerns give as much attention to the harmony  
  
Se Baits: selene  
0  
EQUIPMENT-RESEARCH CORPORATION, CHICAG \_EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
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Sec. 47 : Page 4 Sec. 47 : Page 5  
Busines  
  
Typewriters and Eauipmatchi pment Digest Typewriters  
  
SPECIMEN TYPE FACES  
  
PICA. The standard type.  
  
SPECIMEN TYPE FACES  
  
DERN GOTHIC. A VERY LEGIBLE  
SAUTIFUL GOTHIC LETTER WITH  
FIGURES | 234567890  
  
LE MODERN GOTHIC.  
  
Over ninety per cent of the ma.  
chines used for ordinary pur-  
MEDIUM ROMAN. Much used  
  
by professional men and also  
  
A VERY  
  
adapted for general uses.  
  
ELITE. This is a smail  
elegant letter which has no equal  
for polite correspondence.  
  
is a sample of the  
  
°Y USEFUL FOR PUBLIC  
ICES AND ALL DISPLA  
1234567890  
  
-EMINGTON-NOISELESS TYPES  
‘ PICA. The standard type.  
  
PICA ITALIC. An attractive face  
and size for admirers of Italic.  
P25, 44076, 758,9,0-  
  
L‘SRGE ITALIC. Purpose simi lot  
to the lorger sizes in o ther  
  
BOOK TYPE. There has also  
developed a small demand for inety per cent of the ma-  
type resembling printer's type  
  
ELITE GOTHIC. THis 15 a sampce oF WORK , PELITE This is a small,  
  
THE L.C.SMITH & Bros. TyPewRITER WITH THE letter which has no equal  
  
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Sec. 47 : Page 7  
  
Sec. 47 : Page 6  
Business aie  
  
‘Typewriters and Equipment  
  
4 individuality of their typewritten communications  
the design and appearance of their letterheads. ‘The selecting? do Ribh  
style of type face is, with such users, an Important consider 0! eS Loe soe  
  
‘The styles shown by the specimens on two pages of thi, 3 =  
typical Gt thé woet povular. They are not however: be ection cator, (type of). Automatic reverse.  
  
line spacing, (number Heel to prevent battering.  
18). Ribbon, (colors).  
  
tinctive with each make. oa 3 4  
‘The most popular type face is pica, spaced ten characters 4 As Bh aie features.  
  
inch. Elite, spaced twelve characters to the inch, (and some; tog an ge  
  
extended appearance, ten characters to the inch), is nearly as y m of type bars, (cor- ited noes  
  
used, Bulletin type, shown in two specimens heréin, is nosy s  
  
Weight with case.  
Weight without case.  
Outside dimensions of case.  
  
by most manufacturers for notices and the addressing of layonst (segment or individual  
tags.  
  
Type faces for nearly all languages, including those é  
right to lett (Hebrew, Arabic, etc.), and those written in vertien aber Lic Bi eu  
(such as Japanese), are furnished by most manufacturers, as are idateral,. vertical). ‘arriage len: .  
faces fncluding signs and \_gharecters used in mathematics, chemis i y  
  
and other sciences. Dead keys, for writing diacritical 3 i ‘  
in many languages, and certain scientific characters, can hey : What Constitutes Speed in Typewriting?  
  
on practically any machine. Dead keys write but do not space, other qualifications are customarily taken into consider-  
‘The Hammond Typewriter may be equipped with a wider variety the employment of stenographers and typists, the following  
type faces than any other machine. One face may be substituted be desirable for a clear understanding as to what con-  
another at any time. (See descriptions for details of construction din typing. They are taken from the World's Typewriting  
styles of type faces in English and other languages). ship Contests, held in New York City, October 18, 1926.  
  
Other makes of typewriters are permanently equipped with one st, ject matter for all three divisions was a printed book, hence  
of type face, or for writing in one language, although machines om the usual media from which transcribing is done in every  
obtainable for writing in three different languages without ess. The print was plain and easy to read, and of course  
such as English, French and German, or English, Spanish and F no errors or changes from copy to be considered, such as  
In such cases the letter characters are English, the equipment of occurs under actual office conditions, and all paragraphing,  
keys permitting the typing of special marks properly to write a een, were no task for the typist except to follow  
  
guages. .  
  
additional lan  
  
Practically all manufacturers furnish machines equipped with — Must be understood that the words were averaged at five  
point type and special ribbons for the writing and protecting of chee to the word. The gross number of strokes was reckoned  
and important documents. The ink is driven into the perfo nted copy and divided by five to secure the number of gross  
made in the paper by the striking of the pin-point characters on # which all deductions for errors were made. Ten words,  
type Usually the style of type on such machines is Pica Gotl were deducted for each error.  
  
2 a of counting five characters to a word provides a standard  
Analysis of Typewriters sompetition on any kind of transcribing, including languages  
  
English.  
In describing the features of the different makes of typewriter 's Cham  
rld pionship contested annually, is open to all typists.  
See made to adhere to.a standard form of one B one hour’s continuous writing. Following are the high  
descriptions of their diffe: " lowing table. 2  
somparing one, mechine with iar ie Sng tases wil beta Chey yomns eons gry ag omen aro  
in the same order, in each description. B415 a Bi0 teaae a  
  
7,525 26 260 7,265, 121  
Principally emphasized features Shift lock, (position).  
  
0 Amateur Championship is open to all typists who  
The general characteristics of Shift lock release, (nosttag viously won this event. It comprises thirty minutes con-  
each machine. ane ere on toa riting. Following are the high and low scores,  
General features key). GROSS WoRDS ERRORS PENALTY NET WORDS PER MINUTE  
Marginal release key ;  
Model number. Adjustable touch. j 3,645, 17 170 3,475 116  
Date first put on market. Carriage 3,285 9 90 3,195 107  
Classification, (standard, port- F d's School Novice Championship is open to all students  
able or motorized). a rcennes.. aaa ot used a typewriter in any way until sixteen months pre-  
ayes ae ook (front, down bores ee ection oom ontert Bi comprises fifteen minutes continuous writing.  
Kina of shift, (basket or car- ized typewriters only). Bee ce,  
riage). Tuterchangeable platen. 1 ERRORS PENALTY NET WORDS PER MINUTE  
Visible or blind writing. Taking paper, (size). 19 190 1 76  
  
Tength)- : 2 13 pth i  
eaten ticccopenaents (rack  
  
wheel).  
  
Keyboard  
Number of rows. z  
Number of keys. Feed rollers, (single or unit):  
Number of characters. Tabulator design, built-i ~  
Location of shift keys, (right or tached, (number of key!  
  
ie Line space lever, (right OF  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47 : Page 8  
‘Typewriters  
  
EOI Sh rr  
EQUIPMENT-RESEARCH CORPORATION, C1IICAGO  
  
Sec, 47-1 : Page 1  
s Machin:  
  
foment Diges.\_\_\_\_\_\_\_\_—Portabla‘Typowsltera  
Portable Typewriters  
  
portable typewriters are generally considered as primarily  
ed for use in the home, in schools, and in traveling, it is perhaps  
suming too greatly to state that the checks for the payment of  
typewriters are made out by the man in the office. Hence,  
on on Portable Typewriters is not only desirable, but import-  
e business executive, permitting him to analyze and compare  
of construction and equipment on each make now available.  
umber of business concerns that are equipping their traveling  
tives with portable typewriters is constantly increasing. The  
of close contact with traveling representatives makes it only  
hat the extent of detail of the information which representa-  
ind in to their supervisors or the home office be encouraged.  
the means of writing reports and other correspondence, in-  
t required to be sent to customers, from places on the road,  
the most convenient possible.  
  
copy retained by the traveling representative serves not only  
disputes and confusion, but saves the time of both the repre-  
and those in the home office, by permitting reference to be  
the date of the communication, instead of requiring the re-  
of portions of it so as to assure mutual understanding.  
e $ are usually made up in a hotel room after business  
st always after the public stenographer has left for the  
much greater time and considerably more effort are ex-  
n if a portable typewriter were available.  
  
to be a logical conclusion that the convenience and time  
  
d the detail and definiteness of understanding which the use  
  
ble typewriter by a traveling representative makes possible  
  
rts and correspondence, well warrants the investment which,  
  
can be offset by the accruing advantages during a six  
year period.  
  
FOLD- CHAR-KEY- CARRIAGE | —————DIMENSIONS  
ING ACTERS BoaRD Paper Line Weight Width Depth Height  
  
-- Yes 84 3 9%" 8.3" 9% Ibs. 1234” 10” 456"  
No 84 4 9%” 83” 12 Ibs. 13%” 12%” 4%”  
. Yes 90 3 9%” 8.3” 10 Ibs. 12%” 10” 456"  
  
180 3 9%" 8.5” 11%) lbs. 12” 9” 8”  
  
240 3 944" 8.5" 11% lbs. 16” pd 8”  
844 9%" 8.5" 11% Ibs. 124” 11%" 434”  
84 4 9%” 9.25" 12% Ibs. 12%” 12%” 514”  
843895” 7.6" 9% Ibs. 11%” 8%” 4”  
84 4 95%" 7.6" 12% Ibs. 11%” 105%” 4%”  
  
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Sec. 47-1 : Page 2 See. 47-1 : Page 3  
  
Portable Typewriters  
  
Portable Typewriters  
  
ALLEN { ¢ Mounted on ball bearings with ball spacing controller; takes  
  
inches wide: writes @ line § Inches long; escapement is of the  
Company, Allentown, Pennsyiya og type,—the universal bar is operated directly by the type bai  
nent ee eaiy: Pree raters and agents. ennsylvanig, Soy line space and carriage return lever with adjustment for single  
  
ible line spacing. Right and left hand adjustable margin stops; line  
  
SPECIFICATIONS 3 Boargin release controlled from a key on the keyboard. ‘The platen  
J jes in diameter, (the same size as is generally used on standard  
  
ral features: Portable size, front stroke, double shift, visi», :  
pieced on market in 1921, © writing titers). A variable line spacer of clutch design {is built into the  
  
Thi 29 keys, writing 87 characters; shift , s re and is operated from the right hand platen knob.  
  
Keyboard: Three rows, 8! font Key toy mechanism: e bars are flat steel ted,  
  
hand operation equipped with positive peace: eitbulator kel muounied inva Soild. segment), sogsoese oil ry type walde  
jower right corner i 7 don front ened | Two-color % inch ribbon, 12’ yards long,  
  
member of frame, operated by either thumb; left marginal stop and te operating ona single stroke of a key. The ribbon ls fed by poste  
same release used for line lock release. ehanism with each printing stroke, but the ribbon fs not moved  
  
Carriage: Mounted on ball bearings; takes paper 914 inches wide, wry j@ space bar is operated or when the carriag:  
  
Mne 7% inches long; rotary egg aves eats ean peed roller; gj ction Weight,  
key tabulator; right-hand line space lever w! justment for \*  
double and triple line spacing, singh without case, 18 pounds, Finish, black enamel with  
  
lard type faces.  
Printing mechanism: ‘Type bars of special ailoy steel mounted in a  
  
erintr: is guide at printing point, Two-color %-inch rien been established tentatively at................00005 eee $65.00  
mi-automatic reverse.  
Construction: Frame of cold rolled steel; weight 11% pounds; »;  
  
10x12 inches, height 7 inches. Type face, pica only. a CORONA  
  
Models and Prices  
  
Regular model, black enamel finish  
Metal carrying cas  
  
by L. C. Suarm axp Corona Tyrewnrri  
New York. Sold through branch offices  
d their own sales force.  
  
FOR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES,]  
BARR 3 re are three models of Corona portable typewriters: Corona Four,  
  
equipped 4-bank machine; Corona Three, a 3-bank ke;  
Made by the Banr-Morst Corroration, Ithaca, New York. Not as yet in th chine; and Corona X-C, a S0-character special keyboard ma  
production stage. ‘the 3-bank  
  
type.  
This new portable typewriter was exhibited in the fall of 1926 but fs : MODEL FOUR  
  
not as yet in production. the latest model, first placed on the market in May, 1924. The  
ences between it and earlier models are that it has a stand-  
single shift keyboard, and it does not fold. It is low in  
g 4% inches high overall.  
It has 42 full size  
  
keys with standard  
distance between  
each, making this  
model suitable in-  
terchangeably with  
standard office type-  
writers. It has a  
10-inch carriage,  
permitting insertion  
‘of No. 10 envelopes,  
and writes a line 8.3  
inches long (83 pica  
spaces) ; ball bear-  
ing, carriage shift  
with right and left  
hand shift keys,  
left hand line space  
e return lever, standard 12-yard, 2-color ribbon with auto-  
ind manual reverse; variable line spacer and carriage release  
t both ends of carriage. The margin release and back-spacer  
located in the keyboard.  
model has an accelerating type bar action, which means that  
@ bars are so constructed that they reach their highest speed  
rinting point, thus obtaining maximum power of impact of type  
the writing surface, providing clean-cut type impressions,  
neil-cutting ability and manifolding power.  
double universal bars: one bar, operated by the key levers  
ribbon movement, and the other, operated by the type bars,  
teft B the escapement. This construction permits of independent a  
me, Witte i it of the ribbon and escape mechanisms and affords a light even  
  
, Inc. Executive offices,  
nd by specially appointed  
  
SPECIFICATIONS ©  
General features: Portable size: front and down stroke; single  
shift; visible printing.  
Keyboard: 4-rows with right and left hand shift key: ‘a.  
shift lock and release; back space key located on the keyboard.  
  
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EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
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Sec. 47-1 : Page 4 b d Sec. 47-1 : Page 5  
Portable Typewriters and Equpmeae hin Portable Typewriter  
  
Specifications of Model Four f : Hinged on two steel arms to allow folding compactly over key-  
  
E when placed in the case. Mounted on ball bearings and rollers. Takes  
  
(rat baat ed ay og Dae stroke carriage shite, staiy 9% inches wide with writing line 8.3 inches long. Escapement is do  
ht ket ode 4 design with adjustable te When folded the escapement {  
Keyboard: Four rows; provision made for dead keys if requirea; out of engagement with the rack to prevent damage while machin  
  
and left hand shift keys with left hand shift lock and release; baci. sit. Left hand line space lever with adjustment for single, or double  
Key located in keyboard, equipped with positive stop to prevent qanbace ng. Back space mechanism operated from key on keyboard; right  
moving more than one space at a time. se t hand margin stop:  
  
Carriage: Mounted on ball and roller bearings; takes paper 9 Mechanism: Type bars are flat steel with heels to prevent batter.  
wider writing line 8.3 Inches long. Left hand line space and carrias, ‘eh nted in solid slotted segment. Type guide at printing point. Two-  
lover with adjustment for single and double line sbacing. Right and tett ha “inch ribbon with automatic reverse,  
adjustable margin stops mounted on a slide, cale to corre, 4 ieatio  
with markings on the paper scale; line lock release located in keyboarg® BE sg trices inentcr chen telkta: Melimate ike Gok  
  
Printing Mechanism: Type bars are flat steel with heels to pre. ons of case, 12%x10x4% inches, Weight, 9% pounds with  
battering; mounted in solid slotted segment; carriage shift; mech pounds without case. Finish, black enamel with nickel trim.  
  
type guide at printing point. 2-color, %-ineh ribbon, 12 yards lo) x  
automatic and manual reverse, and cut out for stencil’ work. ne, as: Pica, elite, medium Roman, billing or italic,  
Construction: Stamped en eal: bt Diese, reinforced with threg d Prices  
rigid cross members, one of which is integral w: e frame. Size of mae] ‘ i  
11 x 12% x 4% inches; outside dimensions of case, 18% x 12% x 4% ing ur, 4. Pen eran EE esac walonatcach . at  
  
Weight: 12 pounds with case; 9% pounds without case. Finish: Black ena  
  
with nickel trim. Type faces: Pica, elite, medium Roman, billing or ital game as Model Three, but writing 90 characters, and from one  
  
+ dead keys as required............ eeeeee + $55.00  
MODEL THREE  
Model ‘Three has a S-row keyboard: 10-inch carriage, taking. al 4  
widths of paper up to and including inches. The actual writh  
line is 8.3 inches. The ribbon on this model is 7 yards long, 2 colo 4 HAMMOND  
MODEL X-C q  
‘This is a special model of the 3-row keyboard machine for che by the Hammonp Typewriter Company. Factory and general offices:  
doctors, engineers, optometrists, technicians, and those writing in ret at Brook Avenue, New York City. Sold through branches and  
  
eign languages. One style of this model writes in eight different appointed dealers.  
Fuages through, te cisined fo weite in any one of 80 langungea OR LOCALIZED 1187 OF SALES REPRESENTATIVES, SEE GREEN PAGES.)  
construction and design, this model is the same as Corona Model Th Minodeis of Ham-  
except for the keyboard. While the model Three has 28 keys, iters are designed  
viding 84 characters, Model X-C has 30 keys, providing 90 charae ay or ering,  
which makes possible the inclusion of all signs and characters used MEMin they are the  
professional or technical men and linguists. Any one of four all respects to the reg-  
may be made dead; also the carriage can be built to move from left t REE fecal, ascribed  
right (the opposite ‘direction from the usual) to write Hebrew, Arabi Bean ey eacribed  
and such languages. Special keyboards can be designed to meet th Ap ae  
individual needs of persons or business organizations. F cee  
  
Specifications of Models No. 8 and X-C q Carriage 9% in-  
  
General Features: Portable = ene, ine ie  
size, front stroke, double shift Zt ts 4 and is call = gg  
(carriage shift), visible writ- pravell pocaneery  
ing. When the machine is to p iraveling ft  
be placed in the case, the car- hic removable,  
rage folds over on the ke: Nese ge danas  
  
board, during which time it is ¢ Bae machine.  
disconnected from the escape- \\ bar folds over the keyboard and the keyboard folds into a  
ment, When folded back the : ; n. The paper rest (corresponding to the paper table)  
carriage automatically locks the top of the machine. The carriage is locked in position  
itself In operating position. machine is folded.  
  
Keyboard: Three rows. The as ble models are regularly equipped with variable spacing  
regular model has 28° keys eribed tandar  
writing 84 characters; the XC oj under Si ‘d Typewriters.  
  
model has 30 keys writing 9)  
characters; the XCD model has  
30 keys writing 90 characters  
of which four keys are “dead”  
(i.e. these four keys are not  
connected with the spacing  
  
Models and Prices  
[porTante mopELs]  
  
‘lable spacing adjustments, 10 and 14 characters to the  
  
echaniem ‘and are. used’ for io the  
tarees, Recents). Right and $110.00  
left hand shift keys with left E : h sign: haract :  
hand shift lock and release. ‘ tical Model, with keys for extra signs and cl ters up to  
Back space key situated above d with shift keys for numerator and denominator:  
  
and to right of keyboard. ‘ 3 Bedeee’ tus sey eeere fits  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO EQUIPMENT-RESEARCH CORPORATION, CHICAGO

\_a standard No. 10 envelope  
  
Sec. 47-1 : Page 6 en See, 47-1 : Page 7  
Portable Typewriters rip Gohig wuipment Digest Portable Typewriters  
  
‘With 3 variable spacing adjustmen  
inch .  
  
‘All models are equipped with two type shuttl of ty  
and are fitted in carrying case. Extra type faces, $4.00 cach ann  
  
For illustrations of specimen type faces, and language shuttles regularly P  
  
ROYAL  
  
by the Rovay Typewriter Company, General offices, 314 Broadway, Ni  
is Sold by their own sales force and through dealers. seaweed re  
  
plied, see Hammond descriptions in Section No. 47-2. IFOR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
  
‘R portable typewriter, which resembles very closely in its  
nce and constructional features the standard typewriters made  
REMINGTON company, was first offered on the market in August, 1926.  
  
Made by the Remaxcton Tyrewniter Comrany, Executive offices, 374 py  
way, New York City. Sold by their own sales force through branch of  
principal cities and by office equipment dealers.  
  
[vor LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN racxs,]  
  
Portable size, front and down stroke, single  
shift (carriage shift), visible writing. Type  
bars, when machine is to be placed in case,  
rest flush with top plate, and are raised, all  
at one time, to a writing position when ma-  
chine is to be operated. A lever on the right  
side frame controls the raising and lowering  
movement.  
  
‘The latest model was placed on the market.  
in April, 1925. It has been improved struc-  
turally ; engineering improve-  
ments have been made in the  
  
SPECIFICATIONS  
features: Portable size; front and down stroke; carriage shift;  
  
type bar and ribbon mechan- . = |: 4-rows, comprising 42 keys, writing 84 characters; right and  
isms, improving the quality . ad shift keys, with shift lock on left side of keyboard. ' Shift lock  
of the work. ‘The carriage te NG embodied in the shift key, a slight pressure on either si  
  
has been redesigned to take A Ie the shift. Marginal release and back space keys located in the key-  
  
(9%” wide); the length of \™ Double ball bearing (4 balls); takes paper 9% inches wide;  
the writing ‘line is now 8% ine 9% inches long; rotary (wheel) escapement; 2 sets of feed rolls,  
inches. q one long feed roll in the rear of the platen and 2 shorter feed  
he front; left hand line space lever with upturned finger piece,  
  
SPECIFICATIONS ; tments for one and two line spaces. Back spacer key located in  
  
i board; margin lock release located in the left side of the keyboard;  
Keyboard: Four rows, standard, 42 keys writing 84 characters; right a1 cator comprises a short line at the printing point and a scale the  
loft hand shift keys with shift lock and releases; back space and he platen, two line spaces below the printing line, THE back card  
release keys. 4 | adjustable feed rolls; lateral paper guide comprises a graduated  
Carriage: Mounted on roller bearings; takes paper 9% inches wide, abered scale, on the upper edge of the paper table. This scale is  
ing line 8% inches long; takes a standard No. 10 envelope. Rack pening the mereinal apace  
ment. Two sets of paper feed rolls with release lever. Left hand ag mechanism: Type bars are flat steel, corrugated and tempered,  
space lever with adjustment for single, double spacing. Back space mechat il to prevent battering, mounted in a slotted segment; a type bar  
ism operated from key on keyboard; right and left margin stops with late on the segment is intended to insure uniform impressions; type  
to prevent over printing at end of line; variable line spacer; carriage tical design, non-adjustable. Two-color % inch ribbon, 12 yards  
fe Wayieg to bla earriage firmiy! when ta case. 3 andard interchangeable spo enell cut-out and two-color chan,  
Printing Mechanism: ‘Type bars are of flat steel corrugated, with Spee band ribbon reverse. i  
hardened type and heels to prevent battering; mounted in a solid + Base entirely enclosed with dust-proof features; the ma.  
segment. Type guide at printing point. Two-color %-inch ribbom ™ ag Ge Rsonetcapaatent help rage espe bish gloss  
" . eight, with case, unds; weight, without cas  
automatic reverse. ee Overall width of case, 12% inches; overall depth of case, 12%  
{Gonstruction: Sheet steel frame, | Sem{-folding. All metal 2a overall height of case, 5% inches.  
nickeled are rust-proofed. Weight, 11 pounds 12 ounces wi "  
side dimensions of case, 12% inches iong, 11% inches wide and 4% (TREE LCE pth Mera thake ithe PM tnd  
deep. Type faces: pica’or elite.  
  
+ $60.00  
  
Models and Prices  
  
Regular Model, black enamel finish, with case.  
De Luxe Model, ivory enamel finish, leather case.  
  
VICTOR  
  
Actor Adding Machine Company, 3900 North Rockwell Street,  
Illinois, are nearing the production stage, and are expected  
  
m the market at an early date, a 4-bank portable typewriter, to  
through dealers.  
  
e will be announced through the Digest Supplement Ser-  
  
oon as possible.  
  
So ee ae  
UIPMENT THTCAGO  
3g NTORESEARCH CORPORATION, C EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
Mili rret re eae ee tees:

Sec. 47-1 : Page 8  
Portable Typewriters and Fauipe teh  
  
men|  
  
UNDERWOOD  
  
Made by the Uxvenwoop ‘Tyrewniter Comraxy, Ixcorronarey,  
offices, 30 Vesey Street, New York City. Sold by their own sales for, }  
branch offices located in principal cities and through specially appos, 165 rowan,  
  
[POR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GR eg  
  
In April 1926, a four-bank  
single shift portable model  
was put on the market.  
Both the three-bank and  
the four-bank models are  
now being sold,  
  
In general appearance the  
four-bank model is similar  
to the three-bank machine.  
| ‘The following represent the  
| principal differences in con-  
struction :  
  
‘The four-bank model has  
42 keys, writing 84 charac-  
ters.  
  
It has a front paper-bale  
with adjustable rollers for  
holding ‘small labels, bulky  
papers and cards, firmly in  
place while typing, and to  
permit writing at’ the ex-  
  
WITH 3-BANK KEYBOARD  
  
treme top and bottom  
paper or card:  
‘The marginal stops  
on a rack in back of  
paper rest, and are set on  
scale corresponding to  
main front scale.  
SPECIFICATIONS.  
General Features: Portable  
size, front stroke,  
shift, visibl  
  
Chat eb aye  
=i acters; four-row  
42 keys, writing $4 oh  
ters; left hand and right han  
sh ys, with left hand  
shift lock; back space ke¥:  
WITH 4-DANK KEYBOARD tension.  
Carriage: Mounted on rollers and ball bearings. Takes paper or en=  
velopes 9% inches wide, writing line 7.6 inches long. Ball bearing rotary.  
escapement. Left hand line space lever with adjustment for single or double  
spacing, and platen ratchet release; sliding marginal stops in rear of  
  
See ep!  
  
riage; automatic line locking mechanism; adjustable paper fingers on $row  
  
model; adjustable paper-bale on 4-row model; writing line scale; mal  
release key and carriage release lever at right end of carriage.  
  
Printing Mechanism: ‘Type bars are of flat steel, corrugated, mouniy”  
in a slotted segment; projection on type end to prevent battering or Drenty  
ing. Type guide at printing point. Two-color Standard (regular model’  
Underwood % inch ribbon with manual reverse, and stencil device.  
  
Construction: Cast aluminum frame, non-folding. Dimensions three’  
model: Outside dimensions of case, length 11% inches; depth 8% Ime,  
height 4 inches. Weight without case, 6 pounds, 11 ‘ounces; with,  
  
9 pounds, 13 ounces. Four-bank model: Outside dimensions of case, tee!  
11% inches; depth 10% inches; height 4% inches. Weight without: ‘to D  
Pounds; with case, 12 pounds 14 ounces. Both models are attach  
of case, which forms a knee-table when typing.  
  
. with carrying case  
Four-bank model, ‘with carrying case.  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
Sec. 47-2 : Page 1  
Dees Bigot : Standard Typewriters  
  
DEMOUNTABLE  
  
by the Demountante Tyrewnitsr Company, Fond du Lac, Wisconsin.  
dealers and special representatives.  
  
[oR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.)  
  
PRINCIPALLY EMPHASIZED FEATURES  
  
in sections, all inter-  
ble and replaceable. A  
‘at the rear of the ma-  
‘allows the operator to  
ye the carriage and out-  
frame as one assembly,  
t printing mechanism,  
ning or replacement.  
e and platen  
removable and inter-  
  
for cleaning.  
  
e may at any time  
  
into a wider car-  
hine by the purchase  
itution of a wider car-  
  
led, with the original  
carriage.  
action or type bar as-  
ly unit, the part of the  
most susceptible to  
ean be removed and re-  
| with a new unit at any  
“at about one-half the  
cost of a new typewriter  
arrangements, of different  
for foreign languages  
ewise be substituted.  
lized manufacturing  
assures tnterchange-  
of like parts of differen  
  
il the refinements of us-  
Standard typwriter con-  
) plus the demountable  
are embodied in the  
  
| Model No. 2, placed on  
in January 1925,  
from previous models in  
outside frame and top  
including the entire car-  
embly, are now remov-  
jone unit, and the ribbon  
contained in the  
unit, in which are con-  
4q Se and type bar iniusrratinc DEMOUNTABLE FEATURE  
Gibbon spools are completely conceal: j  
3 permitting a clear  
peck and affording a stream line spears The carriage  
ide frame can be removed without disturbing the ribbon. A  
Seated at the rear of the machine, when pulled out permits  
  
P section to be lifted off,  
  
ibbon reverse is automatic on Model No. 2, the feedi: \-  
ing actuated by the operation of the type bare wed Male  
™manual reverse as on previous models is retained.  
  
a ea  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-2 : Page 2 Sec. 47-2 : Page 3  
  
Standard Typewriters and Equipmeachin ri Standard Typewriters  
  
‘The type basket has been redesigned to allow for greater HAMMOND  
between the type bars when in action. All important friction : 5  
have ball bearings. All gears have been eliminated trom tha POM See Also Portable Typewriters, Section No. 47-1  
Pee eening ee ana einen, Area Permit qui Motorized Typewriters, Section No. 47-3  
and easier action. Key leve Has a  
dividual touch of the operator, the tension of all keys Being ats by the Hammonp Typewriter Company. Factory and general offices:  
at one time; individual key ‘tension is not provided for. ‘hy: et at Brook Avenue, New York City. Sold through branches and  
finder has been improved with a view to facilitate writing of sqit jointed dealers throughout the world,  
and multiple sheets. card  
  
SPECIFICATIONS  
  
(18 Characters to inch)  
  
(14 Characters to inch)  
  
LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES. ]  
rincipal feature of machines of this make is their ability to  
aracters variably spaced, and in different sizes and styles of  
General Features: Standard size, front stroke, single (basket) same machine may be adjusted quickly to write 10, 14 or  
visible writing; unit construction, demountable by the operator. if rs to the inch, the letter spacing corresponding with the size  
Keyboard: Four rows, 42 keys writing 84 characters; right ang c  
hand shift keys equipped with shift lock and release; back’ sp; q  
margin release key situated above keyboard on front frame panel; tape HVRURRURA AAA  
lator key. : J Al  
Carriage: Demountable by operator. Mounted on caterpillar ball bear Avedi i ee hi  
ings (two sets of eleven bearings mounted in a special frame so as at a} TULL) T]  
times to present four balls in each set to the carriage rail). Platen east 1D \ AR ky Lu  
removed and interchangeable. Removable unit feed rolls. By chamemy male Pree  
the carriage rail, a wide carriage may be substituted for & narrow a AeA ¥ id  
on any machine. Regular correspondence e takes paper 11 , A  
ride writing a line 9 inches long. Rotary escapement. Single ke D| Valrlilabb ile S pal ing (10 Characters to inch)  
, lator, operated from key on keyboard with stops set from front of m | PEM  
being accessible by tilting the paper table forward; right and left hand a ee  
space lever with adjustment for single, double or triple spacing and  
ratchet throw-off; back spacer operated from key on keyboard; right 7 iv 2  
left hand margin locks; adjustable paper fingers; varlable line spacer,  
ward tilting paper table to allow adjustment of margin and tabulator faces on machines of this make are arranged on shuttle:  
Printing Mechanism: Removable and interchangeable, flat steel type b be removed, and are interchangeable. ‘Thus in combination  
mounted in a one-piece slotted segment, Type guide at printing point, ble spacing feature, one or several lines may be written  
bars have heels to prevent battering of type. 7 (pica or medium Roman size), to the inch, the next or  
Two-color, % inch ribbon with automatic, also manual reverse and throw es may be written in a slightly smaller face, (similar to  
off for stencil cutting. | characters to the inch, and the next or several lines may be  
Construction: Demountable as above described; bearings protected b still smaller type face, (similar to mica size), 18 charac-  
dust covers; ball bearings at important friction points. ‘Type face inch.  
igltsansitenimoran (or ain points" Alsd/anade for writing all fo icing is’ Tate development, and now, standard equipment  
nguag a Adjustment is controlled by a small accessible lever  
Models and Prices : Bent to the carriage.  
features will commend this machine to advertising men for  
With 11-meh vee iS copy for the client or compositor, and will also add con-  
  
‘and make possible the compilation of reports which require  
With 18-inch 5 : matter to be condensed in a smaller space, or with head-  
Wore ae inch: Cer ni prominent style of type, and the page matter in a smaller  
  
nilarly different styles of type may be incorporated in the  
Seat astex saetiens through the use of different type shuttles.  
} cla, Relea aaah lity of the Hammond to write in a wide variety of languages,  
LER atlas aba Bre ae terchangeable type shuttles on the same machine, Is an out-  
CR Se ira q cee WS acteristic. Shuttles are carried in,stock, and may be  
Minch, ‘eames : any time for writing in the following languages :  
  
DANISH HUNGARIAN PUNJABI  
DEVA NAGART INTERNATIONAL ROUMANIAN  
puTcH Phonetic RUSSIAN  
  
oa ENGLISIE TRISH GAELIC SANSKRIT  
ELLIOTT-FISH Pie] ITALIAN SERVIAN  
¥ 1 JAPANESE SIKH  
in § FRENCH-BELGIAN KATA KANA SINDHT  
Complete descriptions of Elliott-Fisher typewriters are ore ou phe ctetaent pean Aw ter ibe ee ft Land  
tion No. 7.. Models equipped for bookkeeping purposes é Lda Mreeeienrce poeta  
in Section No. 8. GERMAN NAVAHO-INDIAN TIBETAN  
  
Se cmih snaher typewriters have flat platens, making (hei GREEK NORWEGIAN TURKISH  
  
tical for many operations of typing such as billing, involCin® -' tapul i HEBREW ORIYA UKRAINIAN  
  
ing tags and labels, typing on flat forms, and for all a ound x (Vocalised) PERSIAN yippis  
and fill-in work. A special model is made for writing In 3 HELVETIAN POLISH  
  
‘They are not intended for regular correspondence use. ; Z HINDUSTANI PORTUGUESE  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-2 : Page 4  
  
Sec. 47-2 : Page 5  
Machines.  
  
Busines  
  
Standard Typewriters and Bquipmyachi Bauipment Digest Standard Typewriters  
  
HAMMOND TYPEFACES FOR ENGLISH AND OTHER ‘. 7 SPECIFICATIONS  
  
LANGUAGES Features: A stand-  
~@ machine, utilizi  
pe wheel " principle;  
“shift; visible writing.  
  
Petite Gothic Especially for condensing in Loose~Inat Manuals an pre reir  
Miniature Roman 4® exquisite type for pray f vulcanized rubber  
t and attractiv R  
ae bers dard size f > oa {Datphabet, includi  
q 3  
Medium Roman The standar 4 i : or busin punctuation demepaee  
: yracters).  
Multigraph Specially me e to match the e is a total eat  
Clarendon A new and highly attractiy, BE nce certnges  
Large Roman A style great ly admired by over 360 type arrangements, all interchangeable.  
Medium Gothic A beautiful and desirable rovided with two posi for clamping two dltfrent seis of Pe |  
: ts rim, al styles of  
Large Gothic A large, bold type for the | the lone machine, each of which is interchangeable and may be.  
. 2 yy any other style. Either set of type faces ught into printing ‘|  
Gothic Italic A special style of italic y cre perene .Ciai ue Mea |  
aracter on the type-wheel face lesignate: yy the depression |  
Capitals AUNQUE NeW ANO ATT RARE Into pesttion to be imprinted on the paper. A hemmer, operating  
Special Gothic ANOTHER SAMPLE FROM OUR ASS fle power cf ths hammer blow le always tno same, producing abs0-  
  
D . to th form impressions regardless of the variation of the touch or key ]  
cot ‘ mnt faces of different degrees of hardness, for varying numbers |  
Small Italic A very neat and useful st mn copies or for stencil cutting. Speed of operation ts equivalent to |  
  
l ¥ t ed f t of standard type bar design. |  
Medium Italie For general use - No o ;  
lavlule —-& Neat style Tor vse in Ya a oe  
: ; y on rig  
Attic The banner display type 2 Runs on ball bearings and its construction ts such that it  
hov, } 9 iting ine, cro provides’ tut are not interchangeable, “Papers ts  
Triah-Gaclio Oin 17 man TO DO BT on i cir, Hint side up; “thay the, Bottom of the paper te n=  
rst, an .  
Russian Baarogapa Biepea 3a BCC, oe of fescapement mechaniom is provided. ‘ett hand line j  
Russian Italic © pocum> Bac Sumo enosnm Y deft hand margin stops. "A paper ball serves instead of the |  
rs. |  
German Text Diefes ift eine Ghrift probe Mechanism: Type wheel construction as above described. ‘Two- j  
a os Y nd throw-off for stencil cutting. |  
Greek Tlohhkal yrAGttat Ovntolc, u Semi-enclosed, Dimensions: Width, 13 inches; dep’  
4 oid a EBS, 7 : oe weight, 21 pounds, including cover and’ base,  
: ‘ No. 26, in which th 8  
Armenian Cuwbp dégttwy Ip a «a jthe market October Ist, 1986, and supersedes all previous models  
iisiew Sy qwny ima ann an it ndard and portable sizes, except the Reversible Model,  
Bi!  
g 9777 TR 2? DIT7k TDR Prices  
haa ae ; uch 5h ales! a [Standard Variable Spacing Models] |  
‘urkish puss l. NAS at %. ». 26, 8%-Inch line: |  
‘cibis-Perd beeen ee wh > Lo er #4 aa : vari i and 14 characters Botte  
Punjabi faefa ysnns 3 was 3 L 4 ; . 120.00 i  
  
carriage, for any of above models, 12-inch line, 2 20.00  
  
matical Model, with keys for extra signs and characters up  
ped with shift keys for numerator and denominator:  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO. EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-2 : Page 7  
  
Standard Typewriters  
No, 11 with 16-inch carriage, taking paper 14,5 inch  
  
Sec. 47-2 : Page 6  
Ma  
  
Standard Typewriters and Equipmen,  
  
writing  
  
With 2 variable spacing adjustments, 10 and 14 characters ¢, spe eese cae os Shi08  
inch os sl No. 11 with 18-inch carriage, taking paper 17.82 inches, wri  
With 3 variable spacing adjustments, 10, 14 and 18 characterg ) 16.60 inches : vette 904  
  
PEE GA ene ae See carriage narrower than ‘the one originally supplied, can be sub-  
  
Reversible Model, writes in either direction, from left to right, or righ; at any time. Any carriage wider than the one originally supplied,  
left; controlled by lever, for such languages as Arabic, Persian’ t to o be substituted at any time but must have a wider rail,  
  
Hebrew, with spacing 10 ‘characters to the inch an  
  
tee  
All models are equipped with two type shuttles (two sets of type ‘aceall  
Additional type faces, $4.00 each and up. 3  
  
Special spacings for variable spacer models, additional........ $20.09. REMINGTON  
  
See also Portable Typewriters, Section No. 47-1.  
Motorized Typewriters, Section No. 47-3.  
Billing Machines, Section No. 7.  
Bookkeeping Machines, Section No. 8.  
  
OLIVER  
  
Made dy the Ouiven Treswnirm Company. General offces, 159 Nor  
Dearborn Street, Chicago, Illinois. Sold direct by mail and through sbecially b: a  
  
I le by the Reaincton Tyrewniter Company. Executive offices, 374 Broad-  
appointed dealers and agents. w York City. Sold by their own sales force through branch offices in  
PRINCIPALLY EMPHA- cities,  
  
SIZED FEATURES  
  
1, All advantageous, origi-  
nal Oliver features incorpor-  
ated in over one million ma-  
chines of previous models  
manufactured for 28 years,  
including the distinctive arch  
construction and actuating  
principle of the type bar.  
  
2, ‘Various size carriages  
interchangeable by the op-  
erator.  
  
8. Increased speed with  
noise reduced to the mini-  
mum consistent with effici-  
ency.  
  
xclusive of Portable models described in Section No. 47-1, and  
and Bookkeeping models described in Sections No. 7 and 8.):  
  
e-shift typewriters comprise models Nos. 12, 20 and 30,  
et-shift model No. 50.  
  
The Remington-Noiseless model No. 6.  
  
Motorized models described in Section No. 47-3.  
  
Carriage-Shift Models  
fundamental feature found advantageous and successful in  
s Remington typewriters, is contained in machines of the type.  
  
it buffers and felt insulated side plates greatly reduce the  
typing.  
  
SPECIFICATIONS i He-colled wire spring anvil accelerates the return action of the  
: E » cushions the blow and preserves alignment by preventing the  
  
General Features: Standard size, down stroke, double (carriage) shift,  
visible writing. Placed on the market in July, 1922. of the segment by type bars of the keys most used. ‘This  
  
j adjustable and .  
Keyboard: ‘Three rows, 28 keys writing 84 characters; right and le Baas Pena retewenia  
hand shift keys and shift lock; tabulator key and separate right and left: Natural Touch” is afforded by equalized key tension throughout  
margin release keys, situated directly above the top row of keyboard. e keyboard. It is the scientific adjustment of the key action to  
Carriage: Interchangeable, mounted on roller bearings; standard 01 to the natural muscular movements of the human hands.  
respondence model, takes paper 10% inches wide, writing ‘a line 9 inch  
long; rotary escapement; paper feed rolls extend entire length of carr  
inbuilt tabulator operated from single key above keyboard. Line space ang  
carriage return operated from left platen knob with an adjustment £0F  
single, double and triple line spacing and ratchet release, Back spastl  
operated from lever on right side of machine; variable line spacer;  
able paper fingers, sign  
Printing Mechanism: ‘Type bars of distinctive “U" shape or arch deity  
are mounted on either side of the printing point, held at both ends ;  
axis and strike downward on the platen. ont  
‘Two-color, nine-sixteenths Inch ribbon with automatic reverse and #  
throw-off. An indicating device denotes the exact printing point,  
out of the way with the downward stroke of the type bar.  
mstruction: Enclosed base. Inbuilt noise-reducing features.  
Pica, elite, medium Roman or print-typ.  
  
Models and Prices  
  
Model No. 11 with 11-inch carriage, taking paper 10.5 inches, writin§,  
line 9 inches...........  
  
Model No. 11 with 12-inch carriage, taking paper 12 inches, wrlting gj  
line 10.45 inches. . eee a  
  
MODEL NO. 30  
  
Left: monet. xo. 12  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-2 : Page 8 :  
Businoss Magni s Machine: l  
Standard Typewriters and Equipmens ipment Digest Standard Typewriters  
  
lowing Prices  
'r oper \*  
  
dels of this type are similar in construction, fo)  
Becl Eitions hereinafter given. ‘They differ only in ina  
  
z t F [Models No. 12, 20 and 80] &  
control follows: E LENGTH OF MAXIMUM PAPER OVER ALL PRICE  
Model No. 12 is usually sold for correspondence and generat yey P WRITING LINE sizk wiDTHt MopEL 12 movers 20 AND 30  
  
It is with a single tabulator key which pe, 8.1" 10.5” 156” $102.50 $122.50  
setting of EEO oeeInge auidiffarent selected ntasting points on they 7 9.5" 12,0" 1 107.80  
  
127.50  
it the necessity for any hand adjustments. This key ha D120 14.5" 10.5" 11280 182.60  
  
fer of important uses, among the principal being the indenting %-ume ee 1h" 23. 130.00 150.00  
in ordinary correspondence. a z 9. 155.00 115.00  
  
Model No. 30 is the standard model for form, tabular and statistioa  
work, In addition to the features which are standard on machineg‘s E Basket-Shift Model  
ae eee rh eee iit ie is me Be No. 50 is a special Remington product, differing in design and  
with side and end paper guides to insure accuracy of paper registap pe tion from the previously described models.  
  
. on, The basket-shift, whereby the car-  
Model No. 20 is also known as the “Remington Special”, yf - riage Is stationary and the entire type  
identical with Model No. 30, except that it has a special palm tab section shifts for writing capitals, is a  
(a lever located on the frame to the left of the keyboard, affording - more desirable structural arrangement  
quick and convenient means of actuating the tabulator, by touching ° when wide carriages are required for  
lever with the palm of the left hand). The decimal’ tabulator 1s to 2 the writing of wide forms. Instead of  
cated below the keyboard, at the front of the machine, instead of b “the necessity of lifting the weight of  
in-built, as on Model No. 30; the keys being pushed-in to operate in ‘ 4 the heavy carriage, the type basket  
stead of being depressed. This arrangement of the tabulator contro} by only is shifted for upper case letters,  
is generally preferred when the machine is to be used for billing an y the weight-lift being the same on a  
similar purposes. 4 ; wide carriage machine as it is on a  
x standard correspondence model, since  
we in either case the weight of the type  
section does not vary,  
  
| ‘This model has on over-size cylin-  
der, 1% inches in diameter ; a posi-  
mechanism with four ribbon adjustments, and a pleasing  
  
dels equipped with motorised carriage return, see Section No. 47-3.)  
  
SPECIFICATIONS  
  
Models No. 12, 20 and 30 4  
  
jeneral, ures dels: Standard size, front stroke, single shift  
« rbd ant Valera : lel has 42 keys, writing 84 characters. It is furnished either  
  
Keyboard: Four rows, 42 Keys, writing $4 characters; right, and lef without the Key-set decimal tabulator, and In seven carriage  
nift lock and rele: :  
hand shift eye, above for each model; back spacer and margin re SPECIFICATIONS  
kaye, > ae led specifications of the above s model are in all Important re-  
: i carriage P same as those of the Smith t iter, ibe  
ith adjustable stop: a d  
Key tabulator With dentations on letters, etc. Models No, $0 and 50 hat Peo celeme. (ee) ee  
ten-key decimal tabulators. acca), aa LENGTH OF MAXIMUM OVERALL with witnout  
Right or left hand line space petere een De Sige .throw-off tal \_ WRITING LINE PAPER SIZE woth TABULATOR TABULATOR  
JUTE te revolve freely; back space mechanism operated from Key on - 8.6" 10.6” 4K" $122.50 $102.50  
Prete tight and left margin stops, two sets on each side (for ree ie 10.1" 12.1" 16” 127.50 107.50  
poercns an legal forms, ete.), with lock to prevent over-printing i 12.6" 14.6 des 132.50  
Gnd of line; lateral paper guide; adjustable paper finge marginal 4 gee 23%" 160.00  
focatea on front of carriage; variable line spacer on right end © 20.6" 26%” isan io.te  
Is operted by one hand only. se hard BE 30.6” 31” 200.00 115.00  
Printing mechanism: ‘Type bars are of steel, corrugated, with ca . .  
  
le, Te ? Pica, medium Roman, elii  
‘tering, mounted on a removabl ica, jum Roman, elite and Gothic.  
remabielat Beene aaron: tn a one-piece slotted segment; tyDe 4 Remington-Noiseless  
at printing point. anvil ;  
- ire spring model No. 6 Remington-Noiseless typewriter, with a f  
‘A feature is an adjustable and renewable double-colled w nS aa lew m y Ke  
superseding the east anvil. The mechanical properties of this ‘tinh rd Keyboard, was placed on the market in March 1925, re-  
anvil provide acceleration of the return stroke of the type J0' Jsual former Model No. 5, which had a three-row keyboard.  
  
Hast anvil at the'polnt beauties of GheTmoat weed type bars. ents the first four-row keyboard machine constructed on the  
cast  
  
See ee eee ene tor principle, ever commercially manufactured.  
Two-color %-inch ribbon, wi . 84 characters, but has only 22 type bars. Twenty of the  
bh Cast frame, equipped with felt insulated side plates: % (all except the end bar on each side) carries upper and lower  
  
‘tal parts not enameled or nickeled are rustproofed. 4 mre different characters, and each is actuated by two different  
me i ;  
  
ial f keys control each type bar to present either the upper or  
faces: Pica, medium Roman, elite or Gothic. Several spec! ‘e of its particular character. In action the type bar mover  
  
aire bulletin size Gothic, are also supplied. ully to the printing point, or describes a downward curve, ac-  
PATO See SE ST ee a a Pena ees iano ah 2  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
Sec. 47-2 : Page 9  
  
|  
4

Sec. 47-2 : P:  
Sec. 47-2 : Page 10 Machines. phe  
  
BusinessM, ipment Digest Sta: 7  
Standard Typewriters and Equismen, PS : ; ndard Typewriters  
  
ting Mechanism: ‘Type bars are of steel with a projection to pre-  
tering and are instantly removable without special tools. Type  
at printing point, locking type against vertical and horizontal vi-  
  
a  
  
color %4-inch ribbon, with automatic reverse and cut-out for stencil  
  
uction: Cast frame; enclosed design; dust-proof.  
  
T: ti  
medium Roman, Gothic. ee  
Prices  
[Remington-Noiseless]  
PAPER SIZE WRITING LINE PRICE  
10%” 9” = $150.00  
12%" 11" 1158.00  
14K" 13” + 180.00  
18%” 4995 hy . 165.00  
4 notes standard correspondence modes,  
REMINGTON-NOISELESS NO. 6  
YAL  
cording to which key is then controlling it. The carriage shifts 4 RO.  
capitals. ; pee Bett aiid “constitusone See also Portable Typewriters, Section No. 47-1  
onstruction provides for perm: stitutional ot ;  
opsnstion; the machine may be operated. anywhere without thet the Rovat, Tyrewnrter Company, Ixconroratep. Executive offices,  
  
traction and irritation so commonly caused by the usual noise of  
writer operation. ee ines 4 ree.  
ressure, instead of by the hammer blo . ‘ x  
brnting, is accomplished ubyiores Preyer ce by the hati OR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
The distance which the type bar travels is limited by the length of  
type action itself, and is so fixed that each type just reaches the pap  
rough a combination of leverage, impelled by the momentum of | cht, responsive, elas-  
weight attached to each type bar, the momentum set-up by the rapi Mn and a wechant-  
movement of the type bar to the paper, exerts a very strong pressure  
sufficient to make a perfect impression on the original and produce 4  
usual number of carbon copies. taal of the cgelerating  
Print modified and the degree of pressure controlled by a ism.” As the  
Bitcatt adsnetmont of the platen, adjusted by a graduated mit of the key’ lever  
dial, located on the front of the machine just above the keyboard. he ratio of speed  
adjustment decreases or increases minutely the distance between e bar is increased.  
platen and the typeface, at the end of the type bar stroke. Thus # Mimtriction of the  
pressure may be varied according to the number of carbon copies & on of the special  
quired, or to control the density of the impression on the origin fodel is such that at a  
this construction it is unnecessary to increase the force of the short distance (approxi-  
stroke to make multiple carbon copies. i Hikrees) trom. the  
‘The platen is rubber (the platen on previous Noiseless models he driving leverage is  
  
ane sing over a center, allowing the type bar to travel by its  
  
i SPECIFICATIONS aa een cam to the Daper. |The absence of an anvil on the seg-  
  
s ingle shift ; nin e of impact, and all other sounds of operation are  
  
General Features: eta Ponds eerreinced ‘on the market down to a minimum. There is an increased lightness and elas-  
  
Meee ee eee ae ae ee stein: t-row keyboatl the touch. ‘The result is a positive uniformity of impressions  
which’ are no longer manufactured. aaximum of speéd and a minimum of noise.  
  
. K p ice; letter writing, card typing and billing without  
board: Standard, four-rows, 22 keys writing 84 characters. HG serv: ig, yping ic  
as tape cond ie ‘which 20 are each controlled by two keys. Right ments and without change of adjustments.  
lock f h. Back space,  
  
lease Reva aivcaten on neryboacds res toca SPECIFICATIONS  
  
Carriage: Mounted on ball bearings; takes paper in widths f° toy Master Model No. 10  
as shown below. Full drop speed escapement. Practically erro zs ‘proved model was first placed on the markét in September, 1921,  
rolla extending along platen, with spring tension ileyst: £0 See ith s oy various other models manufactured since 1908.  
ment for one, two and three line spacing and platen ratchet retell jentures: Standard size, front stroke, single shift (carriage  
  
rgin stops; paper bail designed to provide hand’ .  
  
seen cas of iaheet: ‘variable tus) ‘spacer operated by left 3 Four rows, 42 keys, writing 84 characters, right and left  
  
side of © ft Keys, with left hand shift lock and double rel b:  
Justable lateral paper gulde; paper release key on left oa e\* and double releases; back space  
right and hand carriage release levers; single-key at rack, } ator a situated on keyboard; touch adju:  
from key on keyboard. The tabulator stops are on a 8eD' 4 (located underneath mac!  
  
do not interfere with margin stops. 4 rating keys at once.  
  
way, New York City. Sold by specially appointed dealers and their  
  
EE Sa SESE Cd  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO

AT-2 2  
Sec. 47-2 : Page 12 Sec. 47-2 : Page 13  
  
Standard Typewriters  
  
; - Machines\_\_  
\_BusinessM  
| Standard Typewriters and Eavipmene b oo  
  
dishter, {ouch (a8 described on preceding page), designed to increase  
d steel rails, with », and reduce the noise in operation.  
riage: Mounted on drop forged, hardene x all bear.  
| iagnropentitcg inaids nore en nape raneeerec rack trie ae a Prices  
ting line 9 incl rot  
De ger ene ties ahi cetenat eteecaty earrings release love aud irra iieee pooper 149 wdc” writen ins it0 fe  
lait cciivor carting. taniclaveanicubetaniemicperaten tren: ie, \* aa X-14, takes paper 15” wide, writes line 12” lone...  
Poatas tient sud lett hand ‘margin stop with fine look te prevent aa I No. X-18, takes paper 19” wide, writes ling ie long.  
oats end of line; margin release, ee eee oe cront font: tapes paper ai” wide, writes line 19” long.  
bove keyboard; positive locking, variable line sp’ on left twirler nal t ulator on any model, extra.  
single rear and unit front feed rolls with release lever; bullt-in ca  
  
+ $102.50  
+++ 105.00  
107.50  
112.50  
+ 122.50  
150.00  
  
Viena sreeeeeceseees 20,00  
Td device pe Faces: Pica, elite, medium Roman, elite or pica single or double  
with overhead ball and adjustable margin and tabuiator stops. Poste jc, medium roman single Gothie,  
locks operate automatically to hold carriage in upper or lower positige  
  
during travel of type bar to prevent high or low mis-alignmeng, "oR  
ight of the shift Is balanced.  
Deetnites Mechanism: ‘Type bars corrugated, mounted in one piece eg. by L. C. SMITH  
ith single type bar pivot; accelerating type bar action inere; See also Corona P rtable T; it Secti Ne  
the ratio of speed of the type bar as the key ts depressed, incur pe ‘orona Portable Typewriter, Section No. 47-1,  
SR I ea El ig or rear oreveai scby ke &- Situ ann Conoxa Tyrewntrens, Inconronatiy. Executive  
battering of type faces by striking against each other; one pion type | iiss, New York. Sold through branch offices and by specohn on,  
Sate ‘dealers and their sales forces.  
: bbon with automatic reverse, and cut out for stenely  
ier ety sae gH prevent portion of any character being printea In SEE GREEN PAGES.]  
a second color. Fer skc poston, acc PRINCIPALLY EMPHASIZED FEATURES  
General Construction: Cast frame,, with glass side plates, designed to pearings ; in type bar (each type bar mounted on 15 balls); in  
ed errant meciaoberatinn ss Cau anielce icestadover the type bar aaa in carriage runways and every other Important functional pare  
over bearin z type segment (th : ins stationar:  
\* anufacturers announced that a ‘ype segm ‘© carriage remains stationary and the  
Prauiraumate Twhuuuetteit(niotedisewimsstines on nee, This Section raises for capitals) provides lighter shift, uniform eo  
Gi vscects fovecataitront: teal kere iiotatdtatove the cantare 1c cea or wide carriage models,  
the key action being of the same ‘tension as the letter keys. It is bullt,  
as ordered, in one of the five following arrangements:  
  
number of copies desired. Platens  
Provided for card writing and other kinds of work.  
  
ce of right or left hand carriage return. Right hand return ts  
d equipment.  
  
# For attachments for special work, see the following:  
No. 4: Address Stencil Writer.  
Visible Index Card Writing Attachment,  
  
SPECIFICATIONS  
Models No. 7 and No. 8  
  
Models No. 7 and No. $ are the same  
machine except that Model No. 7 has 38  
keys writing 76 characters; Model No. 8  
has 42 keys writing 84 characters. Both  
models have been on the market with {m-  
provements added from time to time,  
since 1915, superseding other models  
marketed since 1904,  
  
General Features: Standard size, front  
stroke, single (basket) shift, visible writ-  
ing.  
  
q Keyboard: Four rows, 42 keys (on  
  
:: Model No. 8) writing 84 characters, or  
  
as are 88 keys (on Model No, 7) writing 16  
comm! characters; right and left hand shift keys,  
with left hand shift lock and releases; back space key, margin  
yi five tabulator keys, and color control ribbon key, all’ situated  
d.  
5  
  
DECIMAL TABULATOR MODEL  
  
ing when oo  
rked for proper column spac! rowance  
aa to: peperate columns of en amount; No, 2 without, allow alee with  
commas; Ne- §, without allowance for decimal’ point; English N°. tie  
both sterling and comma scale; English No. 2, with  
  
without provision for commas.  
  
Quiet Model  
  
ture:  
yulet Model is the same in all general fea‘  
abate! repaints except for a change in the design of  
  
. Touch is adjustable (by mechante only),  
  
M  
  
ter  
3 as the Mas!  
f the type bar  
  
ee ee RO  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
FQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-2 : Page 14  
Standard Typewriters  
  
Sec. 47-2 : Page 15  
(Silt Satie REP ED BRERA SMES Gah  
Digest Standard Typewriters  
  
five keys mounted above top row of keyboard; line space lever q im operated by action of key levers to insure even wear of  
  
located at option of purchaser for right or left hand operation, Gan be  
  
Provided with adjustments for single, double, or frinle, line, spacing 4 ty SPECIFICATIONS  
  
with throw-off to allow platen to revo! A release levers 40 Features: Standard size, front stroke, single (basket) shift, visl-  
  
5 f nm  
  
at end of line; line indicator; variable line spacer; adjustable paper auune Hitred and sold extensively for years by the Remington ‘Typewriter  
  
holding paper to allow typing to end of sheet jateral paper guide, -, The most quickly recognized improvement is that the type bars  
Printing Mechanism: Type bars (corrugated) mounted on fifteen ted in a solid slotted segment, whereas the Monarch had indl-  
  
bearings in a basket segment, having adjustments for take up of well  
  
projection on each type bar and construction, prevents battering of tyng d: Four rows; Model No. 60 has 46 keys writing 92 characters  
  
by striking against each other or on metal paper fingers; type guide eighth fractions; Model No. 50 has 42 keys writing 84 characters;  
‘Two-color, %-inch ribbon, operated by carriage main spring, equippeg left hand shift keys with shift lock and release; back 8}  
  
with both automatic and hand reverse, with cut out for stencil worl, ee key and margin release key situated on the right o:  
General Construction: Cast frame, open design; buffers or silencers arg above the keyboard.  
  
placed at noise centers to reduce noise to a minimum; ball bearings in'tgne ded between race ralis with six stec! roller bearings,  
  
bars, carriage bearings and capital shift bearings, adjustable to take’) roll separator. Correspo  
  
Leaked 1D mee rrites line 8.6% wide. rapa tor, as 1 eaulps  
  
lecima!l design. e an ine space lever with adjustment for  
  
Pome Ma cosa: Anty Geb veriatyn cr at Dap uac eee. uble or triple spacing and ratchet throw-off; back spacer operated  
  
; Prices of all Models 4 yy on keyboard; right and left hand margin release levers with line  
Model No, 7 Correspondence model, 76 characters. . pap bail with movable rolls or adjustable paper fingers; variable  
  
Model No, $10" Takes paper 10%” wide, writes line fi  
  
Model No. 812" Takes paper 12%” writes line K Mechanism: Basket shift mounted on eight steel roller bearings  
  
Model No. 8—14" Takes, paper 14447 line : dened V-shaped raceways with flat, hardened steel, corrugated type  
  
Model No. 818" Takes paper 18 %47 line . jounted in a solid slotted segment with a stroke stop ring. Type bars  
  
Model No. S—20" ‘Takes paper 2044” Une i sis to prevent battering. Type guide at printing poin  
  
Model No. &—26" Takes paper 26% rites line 34 . lor, %-inch ribbon with four ,position adjustment; one position  
[For L. C. Smith typewriters equipped for writing on Visible Record System color of two-color ribbon, stencil cutting position and a serpentine  
  
cards, see Section No. 49.] ent for one-color ribbon to insure the use of the entire ribbon. Auto-  
  
SMITH PREMIER se operated by the action of the key levers.  
  
on: Open face, designed for speed of operation; frame is en-  
Made by the Surru\_ Premier Typewriter Company.  
  
a th dust panels. ' Regularly furnished with pica, ‘elite, medium  
A General offices 37mm or Gothic typefaces.  
  
Broadway, New York City. Sold through their own sales force and specially  
  
appointed representatives.  
  
[FOR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
PRINCIPALLY  
EMPHASIZED FEATURES  
  
1—Open-face construction  
without the obstruction of  
bars or rods, affording visi-  
bility and accessibility.  
2—Extra size platen (1%  
inches in diameter) provides  
a better grip on the paper  
and adds to the life of the  
platen.  
3—Designed in all its parts  
and action for the highest  
possible speed with a mini-  
mum of energy and effort on  
the part of the operator. eet cate  
4—Type bar segment shifts q i y) bhi QUIFPED WITH  
for capitals; the carriage 4 ala ieee bay  
moves only from side to side. tessttll  
‘The weight to be shifted is constant regardless of the carriage, ‘  
ing fatigue and increasing speed.  
In April 1925, several changes and refinements in the inter!  
  
Models and Prices  
ior con: Models No. 50 and 60  
  
struction of the machine were made, including a redesigned Sa wiprt WRITING CORRESPONDENCE — TABULATING  
ment mechanism preventing escapement from operating whet OF PAPER \* MACHINE MACHINE  
lock is engaged; a redesigned universal bar mechanism, he 10.6 +$102.50 $122.60  
against skipping; a redesigned space bar mechanism, providing (0% aaa "107/60 127.50  
adjustment of the escapement mechanism to operate at any Re + 112.50 - 182.50  
point in the depressing of the space bar; the intermediate 1¢°\* quo ane + 10.00 150.00  
tween the key levers and type bars are now constructed {0 0 aa . Hoda alate  
clearer and firmer impressions and to provide a pleasing touch’ d i Aner Any  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO RQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-2 : Page 16  
Standard Typewriters  
  
Sec. 47-2 : Page 17  
Standard Typewriters  
  
ball bearing escapement with pivot point bearings for loose and  
  
UNDERWOOD “dogs, designed to prevent crowding, piling or skipping of letters;  
  
7 Beesistor ii surtaraatls (BERS) unit style Serna Sam single  
  
ewriters, Section No. 47-1. keyboard; left hand combination carriage return and line space  
  
Chien die fea tates plichian ts ith adjustments for one, two or three line spacing, and release to  
  
Billing Machines, Section No. 7. rotation of platen; right hand paper release lever; back space  
  
Bookkeeping Machines, Section No. 8. ism operated from key on keyboard; right and left margin locks  
  
7 fed from front of carriage in connection with computing scale for  
  
Made, by the Unpeawoon Tvrrwnrren Comrany,, INCORPORATED. Genera @ centering of all lines; right side lock, equipped with bell signal  
  
ofices, 30 Vesey Street, New York City. Sold by their own sales force thysar@l ag, Prevents type from striking when ena of line has been reached;  
branch offices located in principal cities.  
  
leator scale (called cylinder scales) on cach side of printing poln  
- lower with platen when carriage 1s shifted; variable line space  
[POR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES, ] m attached to left side platen knob; lateral paper guide artartea  
table; front sliding paper fingers; pressure lever for holding en-  
gs or cards flat while imprinting.  
Mechanism: ‘Type bars of flat hardened steel, corrugated with  
stion on end to prevent battering; mounted in a ‘one-piece slotted  
op ring on segment provides uni-  
pressions and steady alignment; type bars may be removed easily  
replaced, singly, without disturbing any others; type guide enforces  
t alignment by guiding and locking type bar in’ printing position,  
color %-inch ribbon, mounted in vibrator at printing point; with  
je reverse and throw-off for stencil cutting.  
Construction: Cast base, open design,  
} faces furnished are pica, elite, medium Roman, elite Gothic, pica  
,and medium Roman Gothic.  
  
Model No. 3  
earriage machines, (12” to 26”) with keyboard the same as Model  
  
ok  
  
hed  
  
\UNpenwo0d  
  
‘MODEL NO. 5  
  
PRINCIPALLY EMPHASIZED FEATURES E  
d perfected  
1 front stroke, visible typewriter, refined an: :  
ia tita te eoede! dag conseruction which is claimed to be the standard  
| of the world.  
2, Nearly three million machines have been sold to date. :  
3, A long record of speed contests won by amateur and professional vgn  
operators. ez ; 4 E  
fies For special typewriters he Abel Sines: with special attach: ps ot aevtcn ass funtion | pais HOARE  
; f , see the following: , pewriter, to deaden the noise of operation:  
Hee caesar vita miro Label Writing Machine; Automatic De  
Section No. 4: ire 4 a  
Envelope and Card Inserter. ; oa  
ep No. Condensed Billing Typewriter; Continuous Fan-fold B ?  
Section No. 49: Visible Index Card Writing Machine.  
SPECIFICATIONS  
Models No. 4 and No. 5 nol  
nat Model NOt  
. 4 and No. 5 are the same machine except a  
han he hers writing 76 characters; Model No, 6 has 42 keys Yo cents  
characters, Both models have been marketed since 1900,  
having been added from time to time. Pee  
General Features: Standard size, front stroke, single shift  
visible writing. Sees  
Keyboard: Four rows, 38 keys (on Model No. 4) \  
or 42 keys (on Model No. 5) writing $4 characters; righ! O70, ang  
shift keys, with shift lock operating in connection with right Toy  
key; tabulator key and back spacer Key located on keyboard Teton,  
lease key located above left side of keyboard; individua! xe  
‘arriage: Mounted on ball bearing rollers; takes paper here  
ues fine 8 inches long; instantaneous lock on upper and |  
  
MODEL NO, 3  
  
QUIET APPLIANCE DECIMAL TABULATOR  
  
EARCH CORPORATION, CHICAGO  
  
TquIPuENT: EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
Vleet

Sec. 47-2 : Page 18  
Standard Typewriters  
  
and Equipny  
  
1  
  
© SOUNDPROOF CABINET  
  
nsists of sound-muffling metal paneis for attach=  
‘of the base and frame, to enclose the sides, b  
‘The feet of the typewriter rest on a felt  
m the table or desk top. j  
4 glass cabinet, constructed in  
to deaden sound, which fits ov  
e typewriter, with the exception of the  
It is dustproof.  
s under the glass cover,  
Special line space and  
4 through the cabine'  
‘of the cabinet causes the cover to open au!  
ing part accessible.  
Josed and the typewriting  
  
The Quiet Apphance co  
ment to the open portions  
and bottom of the typewriter.  
which prevents resonance fro}  
  
‘The Soundproof Cal  
cordance with the sci  
and completely encloses th  
levers and the keyboard,  
  
‘The carriage move!  
visible at all times.  
than standard, to exten  
of a button on the left front  
matically, leaving every wo  
serted, the cover ma}  
  
binet is a metal ani  
ence of acoustics,  
  
and the writing is ent  
arriage release levers, lon  
are furnished. t  
  
‘When the paper is  
ompleted before  
  
Sec, 47-2 : Page 19  
Equipment Digest Standard Typewriters  
  
‘and card inserter, (see description in Section No. 4). = 11.50  
“foll attachment for addressing labels fed from a continuous  
  
, (see description in Section No, 4). + 14.00  
minor attachments are also furnished, such as for feeding and  
cards in position for typing; for writing railroad way bills; for  
insurance policies, etc. The manufacturers or the Eguirment-Re-  
Corroration will furnish those interested with complete details,  
  
3 The prices above given for Auxiliary Equipment are somewhat  
‘than those charged when such equipment is furnish  
  
ewriter itself 1s ordered. UE R EE EU cn ee  
  
WOODSTOCK  
See also Motorised Typewriters, Section No. 47-3.  
by the Woovstock Tvrewarten Company. General offices and factor  
  
Illinois. Sold direct by their own salesmen and th ially  
dealers and distributors. and throwoh pecal  
  
FOR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
  
PRINCIPALLY  
ask (ize: EMPHASIZED FEATURES  
‘ 1—Built on the unit system  
having a single casting each  
for (1) the base, (2) the top  
plate, and (3) the carriage,  
each ‘carrying its own essen:  
tial working parts.  
2—Light action, open face  
construction, speedy in oper-  
ation, quiet’ to the point of  
best operation and efficiency,  
  
‘When used with and other features desirable  
  
e cover to remove the sheets.  
‘a special base is supplied.  
ached to any model.  
ted under and in b  
  
is necessary to reopen thi  
drop head typewriter desk,  
Tabulator may be att  
The Decimiasembly\_ which 1s moun  
trolled by ten keys located in a row,  
is directly under the space bar.  
at the back of the cat  
y-set decimal tabul  
stops may be set rapidly an:  
Tt is especially adaptabli  
By depressing  
at which the carriage is stopp  
‘all stops to an inoperative positio  
  
tained unit assem!  
writer, and is cont  
tabulator is attached,  
The stops are 8  
by hand, usually,  
by which the tabulator  
front of the machine.  
forms of different set-up  
stop is set for the space  
restoring plate restores  
is no longer wanted.  
[For Underwoo  
cards, see Section  
  
which, when  
  
et along a rack riage, and are  
  
Jat ecmpastal Bo conveniently from.  
  
umn work Wh  
stop setting key,  
  
Spped at that, M6, |  
  
n when the set  
  
9 on Visible Record  
  
ypewrit i writin  
rd typewriters cawiy eee Leting addressing machine stem  
  
No. 49; equipped for writing add  
  
on a standard typewriter.  
SPECIFICATIONS  
General Features: Standard  
size, front stroke, single (car-  
hift, visible writing. Placed on the market in 1916, supersedes  
dels manufactured since 1914,  
d: Four rows, 42 keys writing 84 character:  
with left hand shift lock and release;  
in release keys, located on keyboard.  
ual touch.  
Mounted in dirt proof rails on eight ball bearings. Standard  
dence model takes paper 11% inches wide, writing line 9% inches  
h speed rotary escapement; unit feed rolls, Tabulator is of the  
inbuilt design, operating ‘from key on keyboard and equipped  
absorbing device on standard width carriages, and also with  
  
right and left hand  
ik space, tabulator  
‘Tension is adjustable to  
  
Section No. 4.)  
  
all Models  
  
takes paper 1:  
takes paper 14”  
takes paper 16”  
takes paper 18”  
takes paper 20”  
3—26", takes paper 26”  
  
wide, writes line 12”  
wide, writes line 14”  
wide, writes line 16”  
writes line 18”  
wide, writes line 24  
  
AUXILIARY EQUIPMENT  
  
Quiet appliance Fah  
f cabinet: For models No. 4 and 6  
Sound proof c: won models ite  
Decimal tabulator:  
for models No. 4  
  
For other models, up to 3-26, depending on length 0!  
  
EQUIPMENT-RESEARCH CORPORATION,  
  
carriages. Left hand line space lever with adjustment for  
ble and triple spacing and ratchet release. Right and left  
e levers; back spacer operated from key on keyboard. Paper  
forward, affording access and visibility in setting tabulator  
in front of machine, Lateral paper guide; paper fingers have  
justment and are hinged at bottom. Scale indicator and line  
ale; inbuilt card holder is standard equipment. Variable line  
@istinctive construction is a secondary knob operating through,  
ing entirely independent of, the regular left hand platen knob.  
Mechanism: ‘Type bars are pivoted in @ one-piece type bar  
Wing an abutment or striking ring against which the bars end  
stroke, to provide uniform printing impressions and prevent  
platen. Type bars are provided with protecting heels to pre-  
ing of type faces. Type guide at printing point. Type bar  
ire adjustable. All type bars are of the same length, and have  
ting parts.  
» yx inch ribbon with automatic reverse, actuated by a sing!  
y character key; stencil cut-out.  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-2 : Page 20 7 a See, 47-2 : Page 19  
BusinessM ’ ss Machines.  
  
Standard Typewriters ‘and Equipmeny sim ipment Digest Standard Typewriters  
  
Construction: Unit construction, consisting of base, top plate a;  
rlage each carrying its own essential working parts. Open design ono  
and open face front contruction. fray  
  
Models and Prices  
  
and card inserter, (see description in Section No. 4)....... 11.50  
Ml attachment for addressing labels fed from a continuous  
(see description in Section No, 4). sees 14,00  
minor attachments are also furnished, such as for feeding and  
, /eards in position for typing; for writing ‘railroad way bills; for  
Model No. 5N, Standard correspondence model, extra wide ce a ; insurance policies, etc. The manufacturers or the Eguirment-Re-  
taking paper 11%” wide and writing a line 9%” long Fi ti ORATION will furnish those interested with complete details,  
Model 8-14", Has a carriage taking paper 14%" wide snd writing g The prices above given for Auxiliary Equipment are somewhat  
12. jong. . n ose charged when such equipment is furnished attached when  
Model No. 8-18". Has u carriage taking paper 18%" wide ana Ba miter Itself 1s ordered,  
a line 17” long. +$150.09  
Model No. 8-22”. .  
a line 21” long .  
  
WOODSTOCK  
  
; See also Motorised Typewriters, Section No. 47-3.  
THE HALL BRAILLE TYPEWRITER ‘by the Woovsrock Tyrewniter Company. General offices and facto  
  
Illinois. Sold di ir ty  
recs iweniinal : b dllincis. | Seld direct by’ their oun salesmen and through Metta  
  
Made by the Coorrr ENcINxERING AND Manvractuninc Company, 1 LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
  
PorATED, 558-562 West Washington Boulevard, Chicago, Illinois,  
  
This machine, while in no sense a business machine, is aes 4 PRINCIPALLY  
herein as information to those who may be seeking some noma 2 Vv EMPHASIZED FEATURES  
regarding typewriters for the blind. = 1—Built on the unit system  
  
It is a practical, portable typewriter for the production of Braille or having a single casting each  
New York point characters to be read by the finger tip method for (1) the base, (2) the top  
touch by the blind. It takes paper 12 inches wide and writes a line plate, and (3) the carriage,  
105 inches long, the equivalent of 42 Braille cells. Any desl > cach carrying its own essen-  
  
margin can be obtained by use of marginal stops. If New York point % tial working parts.  
instead of Braille is to be written, a special interchangeable rack ‘ 2—Light action, open face  
used. The machine conforms to the .90 x .90 x .250 x .400 spacl construction, speedy in oper-  
recommended by the Commission on Uniform Type for the Blind. ation, quiet to the point of  
best operation and efficiency,  
back to the surface of a special paper. The arrangement of the point and other features desirable  
and the relation of one point to another in the cell or character blo on a standard typewriter.  
denotes differences between letters. Previously one side of the shee SPECIFICATIONS  
only could be used, but improvements recently added permit of F General Features: Standard  
on both sides of the paper by interlining. size, front stroke, single (car-  
  
‘The paper is inserted in a carriage similar to that on a s\ d it, visible writing. Placed on the market in 1916, supersedes  
typewriter, and moves as the keys are depressed. The keyboai lels manufactured since 1914.  
sists of six keys, similar to the black keys on a piano, and a space bal Reds Four rows, 42 Keys writing 84 characters; right and left hana  
  
“f a wit left hand shift lock and release; back space, tabulator  
Models and Prices n release keys, located on keyboard. ‘Tension is adjustable to  
jual touch.  
  
. Mounted in dirt proof rails on eight ball bearings. Standard  
Equipment to write New York point, as well as Braille dence model takes paper 11% inches wide, writing li 9% Inches  
Carrying case ... ‘Soa nail igh speed rotary escapement; unit feed rolls. Tabulator is of the  
  
Special paper for use with this machine in lots of not le 3 inbuilt design, operating from key on keyboard and equipped  
  
This company “also manufactures stereotype mee reille terse uble and triple spacing and ratchet release. Right and left  
presses, and map making machines for production of Brall % lovers; back spacer operated from key on keyboard, Paper  
  
With aluminum frame, weight 9% pounds.  
With tron frame, weight 12 pounds.  
  
r, , ii dei of # ts forward, affording access and visibility in setting tabulator  
Nore: The Hammond Typewriter Company also furnish a mee i in front of machine. Lateral paper guide; paper finge  
machine, described in this Section, for writing Braille characters for # Bh andvare\* hingea'‘at’bottout::) Sosle’ tucioatoryand  
  
inbuilt card holder is standard equipment. Variable Ii  
distinctive construction is a secondary knob operating through,  
entirely independent of, the regular left hand platen knob.  
Mechanism: ‘Type bars are pivoted in w one-piece type bar  
ving an abutment or striking ring against which the bars end  
ting stroke, to provide uniform printing impressions and prevent  
Platen, Type bars are provided with protecting heels to pr  
of type faces. Type guide at printing point. ‘Type bar  
adjustable. All type bars are of the same length, and have  
lating parts,  
lor, y% inch ribbon with automatic reverse, actuated by a single  
Character key; stencil cut-out. 2  
  
JUIPMENT-RESEARCH CORPORATION, CHICAGO EQUIPMENT-RESEARCH CORPORATION, CHICAGO

s Sec. 47-3 : Page 1  
Motorized Typewriters  
  
Sec. 47-2 : Page 20 '  
—— i a  
Standard Typewriters ‘and Eauipeetchines cr Machine  
  
Construction: Unit construction, consisting of base, top plate ang ;  
riage each carrying its own essential working parts. Open desi; car.  
  
Rear eee dear ca Gearrentnet om oe aay Motorized Typewriters  
  
Models and Prices be considered as a reliable prediction that, responding to the  
  
Model No. 5N. Standard correspondence model, extra wide carri, approval of the business public, all prominent manufacturers  
  
taking paper 11%” wide and writing a line 9%” long....... -$102655 n the near future, supply motorized typewriters.  
  
Aer pee eeae Has a carriage taking paper 14%” wide and writing a ting ahs motor equipment are not, as one might suppose in  
9" 10) Bets cty ng the term “Electric Typewriters”, given them by the ad-  
Model No. 8-18”. rriage taking paper 18%” wide ana ill announcements, a radical development, subject to experiment.  
  
a Ine 17” long + $150.0 nately, those so far produced, utilize as the typing unit, time tried  
Model No. 8-22”. Has a carriage taking paper 22%” wide and writy q 7 s of standard typewriters, into which have been built the neces-  
a line 21” long .. a7 chanism, driven by an electric motor, to actuate the type bars,  
  
ording to the make) other operations.  
ingement is intended to assist in the hand operation of the  
  
THE HALL BRAILLE TYPEWRITER { es approximating replacement, nS unmum OF changes  
  
[For the Blind] a ould be understood that so called “Blectric Typewriters” are  
Made by the Coorer Enctneertnc ann Manuractunine C. Tncoull ce crenata acne Ie onerted fone  
oMPany, riven . |  
roratED, 358-562 West Washington Boulevard, Chicago, Illino rooms Br ae eas aaa TS eens ae ete tio et oa tocroptuoten  
This machine, while in no sense a business machine, is inclu hanism to shift the carriage, on machines so arranged, and to  
herein as information to those who may be seeking some information ce and return the carriage for the writing of the next line.  
regarding typewriters for the blind. ;  
It is a practical, portable typewriter for the production of Braille or MECHANICAL PRINCIPLES  
New York point characters to be read by the finger tip method of  
touch by the blind. It takes paper 12 inches wide and writes a line ctent to which the motor power is applied to actuate the several  
10% inches long, the equivalent of 42 Braille cells. is of the typewriter, such as shifting for capitals and returning  
margin can be obtained by use of marginal stops. If New York poin riage, etc., differs as between makes. One make utilizes the  
instead of Braille is to be written, a special interchangeable rack 1s actuate the type bars only, Others are equipped to apply  
used. The machine conforms to the .90 x .90 x .260 x .400 5 all operations of the machine, except the insertion of the  
recommended by the Commission on Uniform Type for the Blind. the actual designation of the character and control keys  
Braille characters consist of very small points embossed from the syboard, which require but a very slight, and very light de-  
back to the surface of a special paper. The arrangement of the po to cause the desired operation to function.  
and the relation of one point to another in the cell or character b chanical principle employed in applying power, is approxi-  
denotes diterences between letters. Previously one side of the he same on all principal makes of motorized typewriters.  
only could be used, but improvements recently added permit o : notor rotates a shaft or roller at high speed, continuously. When  
on both sides of the paper by interlining. is depressed it releases a latch which permits an actuator or  
‘The paper is inserted in a carriage similar to that on a stan which there is one for each key), to fall against the serrations  
typewriter, and moves as the keys are depressed. The keyboard con- xxtend in rows from end to end of the shaft; the cam is engaged  
sists of six keys, similar to the black keys on a piano, and a space b fy with the shaft, thus setting up the motion, conveyed to the  
iandelstendsPeics r and type bar, to carry the type bar to the printing point.  
- m releases from the shaft and is thrown back into a home  
cE RE beeper trey Ne amt ag | when but part of the revolution of the shaft has been made.  
Equipment to write York poin case of those machines having a revolving roller, which is  
Carrying case . M covered, and is similar to a platen, the depression of the key  
of not less than. & keyboard releases a cam, (called a “lobe”, of which there is one  
; key), permitting its milled face to be engaged by the rubber  
the roller, which causes the cam to make a half revolution,  
up the’ motion necessary to carry the type bar to the  
oint. "The cams are two sided, each side engaging on alter-  
ns.  
  
Special paper for use with this machine in lots  
pounds, 20¢ per pound.  
  
‘This company also manufactures stereotype machines,  
presses, and map making machines for production of Braill  
  
rotary printing  
  
Je literature.  
  
Nore: The Hammond Typewriter Company also furnish « model of  
machine, il in this Section, for writing Braille characters for the sp g and shifting for capitals are actuated also by cams,  
pike “ +4 as for letter characters. The carriage return is effected by  
ment of a planetary clutch, mounted on the main drive shaft.  
ols for all operations are keys on the keyboard.  
pared with typewriters operated by unassisted hand power,  
esting to note that typical motorized typewriters require  
of but one. quarter of an ounce to two ounces to operate a  
  
key, as against ten to fifteen ounces for the ordinary type-  
nd the key depression is less than one-tenth of an inch on the  
  
en machines, whereas it averages five-eighths of an inch on  
  
n machines,  
  
in typing on a standard model typewriter, allowance is  
permit the type bar to return to its home position, and to  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-3 : Page 3  
‘  
Motorized Typewriters  
  
Sec. 47-3 : Page 2  
  
ie  
Motorized Typewriters and: Bauipmen bin  
  
pu muotetiaed typewriters is such that clashing of type bars js p.m by the Hammonp Tyrewnrrer Company. Factory and gaat  
ly eliminated, and on one make, it is impossible to start an, i "Street at Brook Avenue, New York City. ry and general offices:  
type bar before the previous one has returned to rest. other Si cinted dealers theetghem hemor ee  
On motorized machines on which power is applied to raise ik aiiee:  
carriage for writing capitals, and to return the carriage at the < ,the  
a line and line space, the energy of the operator is greatly cons 9  
  
[FOR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
  
e Hammond motorized typewriter  
by r a le 0] a h een attached ‘Soh  
ire an average pull or push of five pounds. e operat ey 9 .  
Keys controlling capital shift and carriage return, on motorizeq’ t® Key depression is the same as on regular models, but ts lightened  
eu uiet redalres no more Here than for the depression of the charam= uate the hammer. ‘This force is applied by tg oneratces treaes  
eys. racter zy @ operator, thro  
ADVANTAGES OF MOTOR DRIVE Bento pang artaas i ust  
P starts automatically when the machine is put {  
‘The speed of operation possible is so much beyond that or automat put into use  
produced in the operation of standard typewriters, that its actus say, fi increasing the speed of tho motor to two atages, tn cates  
is rather difficult to appreciate without seeing. for manifolding work. ges, in addition to  
  
Speed is not alone the result of the rapidity with which the mechan BME. oss cece geees  
ism operates. The operator is relieved of sojmuch of the usual effort ‘ i  
of typing that there is. considerably less occasion for fatigue.  
speed can be attained and sustained, the result being increased volume  
of daily production. : § HOOVEN  
  
Besides the motions of operation and control sre shortened, as for  
instance, the great reduction of depression of each key, and, on soy ‘Hooven Aut  
machines, the centralizing of all control in the keyboard, eliminating letters, at Mgt aneeds Tana fa auction eth nae production of  
the usual arm movements to return the carriage and line space. Hence. operations by the attendant. m jout requiring any  
Breater speed in completing the necessary operating movements Bera Pena tperalae dian Coheeloe ico en Base noe  
natural. e actuated by the  
  
nt of  
  
‘The strength of impression necessary to make many carbon of a perforated paper strip, similar to a plano roll, through  
is uniformly extended to every type bar through the simple method of  
increasing the speed of the motor. ‘The faster the type bar is made t Bmplete description of the construction and operation will be  
travel to the paper, the harder will be its blow of impression. 7 é pe ohaean  
control for this purpose is a small dial of a rheostat, mounted on  
typewriter frame. Regardless of any adjustment of this dial, the key 3  
touch and depression remain unchanged. 4 :  
  
No greater effort on the part of the typist is required to prodi 4 MERCEDES ELECTRA  
many carbon copies, than is applied to make one, In fact, votateell by Merceves Buromascutnen-Werxe, Zella-Mehlis 2, Thi  
Enosred, and beyond her control to vary. Tach key is but a tig my. Pending organized representation in the United States, inquiries  
which permits the uniform power of the motor to be applied equ a? oh, RatemC. Coxmean Comrosation, Sid Floor, Wool  
to each type bar to make a uniform impression. If the touch is heavier a ye  
than needed, the surplus energy is confined to the key lever and d  
not reach the type bar.  
  
‘The result of this construction is completely uniform impression  
all characters—perfect typewriting.  
  
‘This same uniformity of impression may be expected to have  
advantageous effect on the durability of the machine. ‘The opera!  
constantly being smooth and of measured force, results in an a 5  
of strains and shocks to the mechanism, hence as long, if not Jom  
production life may be expected from motorized typewriters 9%  
standard writing machines. a  
  
‘The details of construction and operation are more fully relate’  
connection with descriptions of each make. The cost of power  
for operation is reported to be but a few cents per each machine  
  
150.00  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 47-3 : Page 5  
Sec. 47-3 : Page 4  
b  
  
Motorized Typewriter:  
  
Business Mach; k q fpoees Diaeet  
Motorized Typewriters and Equipment Dj,  
  
‘The motor power on this machine is applied to the type bars, tne REMINGTON ELECTRIC  
bar, carriage return an in acer,  
wpe aerign and construction of the mechanlam, WNC actuatey by the Reaixoron Tyrxwarrrn Comrany, Executive offices, 374  
The design and cofo that of the Woodstock Hlectrite, herein describe BBN ew York Coon Go by thete ony ells fore tarosak trea  
type bers ie motor drives a serrated shaft, running from right to Jeqt\_ | he Ga  
- tact with actuators 4 4  
to the sub ‘ume shaft also drives the mechanism for the capital shith  
weYoe bar, and carriage return and line eee ayer. i  
vents any type bar from being operatea whit  
Be eee yotiony nah preventing all possibility of clashing ‘ype  
bars or piling letters. ?  
the carriage remains locked until the  
In operating the shift key, healiy sec j  
nar efor necencary hat the shift key be hela ove a of cams, called lobes, one for each key on the keyboard, are  
normal position. vided to permit the writing of a series of capitals, REMairow! cious, tormad -verellairwin theeasihy cb ce ore  
ae ey key on the keyboard,  
trolled from a 'y Five  
The carriage sy apeed, to permit variation in force of impression for  
"e secured from an indicator knob.  
tag caries and control keys have a depression of one-eighth of  
rhe chavauiring @ pressure of only one-quarter of an ounce, :  
» ti ing unit is a standard Model No. 4 Mercedes typewriter,  
mich Of sectional construction, permitting it to be demounted in four  
Seer iad ‘units consisting of the main frame which proucen ie ribbon  
assembled uni'® fype bar and sub lever section, the carriage frame and  
mec , :  
ne Piatotor is mounted on the right side of the machine and runs  
ata cukcriaea principles are obtainable applied to the book~  
odels of this typewriter. a  
ce eetracion of the bookkeeping machine is similar to, the. Ren  
hapten: Model No. 23, described Paes me = a Sa  
ited on e a x  
Cas totea one track at the right side of the machine, below  
carriage rail.  
  
Remington Electric typewriter is motorized as to the printing  
, the shift keys, the shift lock, the back spacer, the tabulator key  
  
je carriage return and line space.  
nted under the sub levers is a rubber covered cylinder, similar  
e platen, which is rotated at high speed by the electric  
  
FRONT VIEW  
  
| a key is depressed, a cam is released, permitting its milled  
vontact with the rubber surface of the cylinder, which draws  
ound one-half revolution, thus conveying the motion to the  
and type bar necessary to cause the type bar to strike the  
  
ime principle, employing other cams, actuates the capital shift,  
Spacer and other motorized features, except the carriage  
ich is actuated by a clutch driven from the motor shaft. All  
‘are controlled from keys on the keyboard, and the carriage  
md line space may be actuated automatically from the right  
  
of keys on the keyboard are arranged on an almost even  
differing from the usual stepped arrangement usual on  
typewriters, This flat arrangement is intended to induce  
of operation in conjunction with the key depression of  
‘of an inch, requiring an operating force of two ounces.  
  
SqUTPNCENT weseAncAe CORPORATION, CHT

Sec. 47-3 : Page 7  
  
Motorized Typewriters  
  
Sec. 47-3 : Page 6  
  
Motorized Typewriters  
  
WOODSTOCK ELECTRITE  
  
fade by the Woovstocx Tyrwniter Company. General offices and factory,  
tock, Illinois. Sold direct by their own salesmen and through specially  
jed dealers and distributors,  
  
[PoR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
  
REAR VIEW  
  
ssion knob located at the rear of the left side of the ma-  
chine, controls a, theostat to speed up the motor to any desired speed  
to increase the force of the type bar blow for manifolding purposes.  
The motor switch is located at the front of the right side frame,  
‘The basis of the typewriter itself is the standard model No. 12, de- —  
scribed and illustrated in Section No. ee “Since ome Te  
Blectric is so new a development that the plans  
tne akutachivers, as to whether or not the motorized feature. will  
be extended to the printing keys of thelr billing and bookkeeping ma  
chines, described in Sections Nos. 7 and 8, have not been announged  
Rr nam eet parca eae 4 typewriter is a standard model Woodstock, described in Section  
ge  
  
7-2,  
er, equipped with size A carriage, 7  
Fe eee en ere aide ritiae a uae f.1" long, for A. C. ° soil a key on the keyboard is depressed it releases an actuator at-  
  
ID chrourrent to the sub-lever for that key, permitting the actuator to fall  
. C. et teeeee ELS 7 the revolving shaft, whereupon the actuator is engaged by one  
  
motorized functions of this machine extend to the keyboard  
nd type bars.  
  
ding from left to right under the sub levers is a serrated shaft,  
is rotated at high speed by the motor which is attached to the  
side of the typewriter frame,  
  
MOTOR CARRIAGE RETURN ON elem tabu- ® ridges which extends the length of the shaft, and is drawn for-  
Model No. 20, the Remington typewriter Bete iy section ‘No. 4% penveying pete to the sub lever and the type bar, necessary  
lator for convenience in billing, which is described in Section 0-59, e type bar to strike the paper. At a point part way in its  
  
tion, the shaft automatically loses its engagement with the ac-  
permitting it to return to a set position ready for the next  
  
of its key.  
  
motor drive is not applied to any other functions of the machine.  
  
lostat controlling the speed of the motor to impart a heavier  
  
the type bars, for manifolding work, has five stages of adjust-  
  
turn,  
may be equipped with a motor carriage return,  
additional to those prices shown for regular macl  
47-2 under Remington typewriter descriptions.  
  
shines in Section NO  
  
Additional to prices of regular models described in Section No.  
SUREAR ory + $65.00  
  
FQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
egeiae ty ae eee  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO

Sec. 48 : Page 1  
  
Typewriter Auxiliaries  
  
siness Machines  
nd Equipment Digest  
  
s $48, be th fi 86 4 . “Ts .  
'When, Ability is the first requisite Typewriter Auxiliaries  
in such matters... | ang  
special you must be sure of abso. Cushion Keys  
problems lute impartiality. Rubber and composition keys to be attached over the tops of regular  
  
iter and adding machine keys, are intended to remove eye  
q , provide resiliency on the impact of the finger with the key and  
ll a | prevent fatigue on the part of the operator. .  
call Jor . A substantial part of our Phere is little to choose as between the different makes, except that  
  
x ne have concave tops to fit the fingers.  
ial work is done on a service ey may be purchased from stationers and office equipment dealers,  
  
specia ‘ iehic : ; lirect from the following manufacturers :  
  
: : : basis for individual clients ’ 4 [Brand name precedes firm name}  
  
investigation consisting of sury eys incoln” Ttneoln eS Company, 27 Thames Street,  
of their needs... involy- \_ nson’ Munson Supply Company, 28 City Hall Place, New  
: tae j ic Touch” The Park Company, 19 Park Place, New York City.  
ing all conditions as 4 eerless” Peerless Key Company, 176 Fulton Street, New York  
basis of determining sity:  
  
Speed Key Manufacturing Company, 20 Columbus Place,  
Brooklyn, New York.  
  
Rubber Cushion Knobs and Rubber Feet  
  
‘ion knobs slip over the hard rubber platen knobs of type-  
ers and adding machines to provide a softer and larger grip, par-  
ly for operators with sensitive hands.  
may be purchased from stationers or office equipment dealers,  
ym the following manufacturers:  
  
Supply Company, 564-572 West Randolph Street, Chicago, Tlli-  
  
—FIRST—If the purchase of machines or  
equipment is warranted  
  
Since we do not sell machines or  
equipment of any kind, we are not  
concerned in whether you buy or not  
  
Rubber Company, 54th and 20th Streets, Cicero, Illinois.  
ge H. Fox and Company, 325 West Ohio Street, Chicago, Illinois.  
abber cushion feet are designed to be slipped under the standard  
  
r feet on typewriters and are equipped with an air cushion which «  
nded to absorb some of the sounds created through the operation  
  
(1 breed  
  
“e) ty “ite desk id to i rt easi touch to  
  
SECOND—Definitely advising the adapt- writer operation, They can be purchased tron nt ost ae  
  
bility of equipment best suited for the — equipment dealers, or direct from the above listed manufacturers,  
abut, $  
  
purchaser’s requirements.  
  
Miscellaneous Attachments for Typewriters  
  
: an ferent typewriter companies furnish attachments for special typ-  
Our neutral position eliminates all their machines such as for cutting addressing machine stencils;  
influence of sales propaganda and ors for the rapid injection and discharge of envelopes and cards  
Bene liee tad a igh speed addressing; card holding attachments for typing on the  
advertising claims. edge of cards used with visible record equipment; card holding  
  
4 ments for making ordinary index cards lie close to the platen  
KNOWLEDGE ASSURES CORRECT CONCLUSION hot interfere with the ribbon movement when typing.  
  
different devices are described in the sections pertaining to  
hines with which they are to be used and will also be found  
Sections concerning addressing machines (No. 4) and visible  
equipment (No. 49).  
  
Equipment-Research Corporation  
  
Harris Trust Building  
Chicago  
  
a  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO

] See. 48 : Page 2  
£3 Fe Business Ma hina  
  
©  
| Typewriter Auxiliaries and Equipment Digect  
  
Sec. 48 : Page 3  
  
‘Typewriter Auxiliaries  
  
jsiness Machines  
d Equipment Digest  
  
} CHAMPION CARBON PAPER CONSERVER  
  
It can be folded out of the way when the typewrit  
he desk, or may be quickly removed entirely, Dee prema ooo  
  
Made by the Cuamvron Consrrver Comrany, Dixie Terminal Building, Cin, en $10.00  
i cinnait, Ohio, Sold direct to the user. bon paper, per roll. s 1.00  
i [FoR LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES. ]  
This device per- q  
mits the use of car- INSTANTO TYPE CLEANER  
bon paper in roll Sold by the Instanto Saves Corporation, 27 East 22nd Street, New York  
  
| form on any. type- ;  
Baar Les [For LocattzeD List OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
the use of carbon e Instanto Type Cleaner is a de-  
paper by providing . for cleaning the typefaces of  
a means of regu- \_ ington, Underwood, L. C.. Smith  
lating the length of : d Royal ‘typewriters, with speed and  
carbon Sreeeanrey ‘e anliness to the operator.  
  
: & : consists of a brush, set in a metal  
generally unused at ick, shaped to conform to the are  
of single sheets, and ; ; led by the type when they are at  
of single sheets, and . st. A stamped steel frame which  
waste due to sheets ps to the frame of the typewriter,  
becoming creased + ‘ aE er  
  
and wrinkled by be-  
ing placed in desk © operate, the thumbs are pressed  
  
Mieeee ate ins : uinst both ‘sides of the frame, caus-  
HN Gane anid thane: the brush to pass over the surface  
after discarded. all o, ae at Bre) Bue, cleaning  
a one quick motion. Re-  
Ingerting the. carbon paper ng the pressure allows the’ brush  
between the letterhead and SEOs  
second sheets is speeded by ss A °° °»+«S- ee | {TC Made for the above mentioned machines only......... $5.00  
the use of this device. Car- : :  
bon paper is always in the  
pied place, directly above 4  
e point where it is inserted 4  
into the typewriter, and when KRANTZ  
several copies are required,  
ee foe ore required. Combined Shock Absorber, Silencer and Desk Clamp  
tendency to smudge and sol Md 4 “alesmen throughout the world.” ‘gh office equipment dealers  
3 is reduced, be- ;  
Suijeeh lous; handling’ tare: ~ A [For Locatizep List OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
quired. his device is intended to supplant, by a single  
The device is a light metal : i peduipment heretofore employed to reduce. the noise ‘ereatea ‘he  
frame attached to the car- E makin; a typewriter on a desk; to enliven the touch of the  
jage of the typewriter and 4 iting operation more pleasing ; to relleve the mechanism of  
supported by a.rail attached 4 rom the jars and shocks of operation, thus increasing  
» . 4 ts e neer =  
through a roller, avoids add- nein relieve the end of the day fatigue of eae pies iy leanne  
Strowa already in the i9pe fectrly to tho plattorm of drop haa weeds {208 the typer  
: i for rop head desks.  
writer are ample for attaching. Models are regularly furnished ewise it may be used  
Royal, L. C. Smith, and Underwood machines. pec ‘and calculating machines: ate eens and billing: machines,  
~ =] it to the num py  
copies desired, ts placed on a spool mounted above the carriage of uel RE mechanical cushion TaiweeeRCE fhe device, creates an tn-  
typewriter so'as to bring the ends of the carbon paper directly abovt, the sounds created by tole bene (gan ene, machine, to  
the letterhead and copy sheets, as they are placed in the anna the Sounds created by typing being transmitted to and magni-  
When the twirler knobs are turned, the carbon is carrie eit fl  
chine with the writing paper, carbon sheets being inserted s° thet a | sel A at ote vee om the under side with felt, com-  
tops are at the point of the first writing line. After a letter 1s AMY tor a eign embers, to each of which is riveted a top member  
the carbon is wound back on the roll automatically, before the Old, he ade, into Which are sunk, through apertures, Steel cups  
is removed, ready for use on the next letter. A cutting edge P on springs of therooreee: Canslony woome tan are spiral  
faint. s, ed in re-  
the worn portion to be cut off when copies become to the weight of the tpewniter "the feet of the trnewse reat  
  
EQUIPMENT-RESEARCH CORPORATION, CHICAGO  
  
EARCH CORPORATION, CHICAGO

48:  
jusiness Machines Sec. 48 : Page 5  
  
Ba Banlpment Digest Typewriter Auxiliaries  
  
Sec. 48 : Page 4  
Business Mach  
  
Typewriter Auxiliaries and Equipment pj  
  
fest,  
attached. ‘The extra resiliency produced in these auxiliary k  
  
ded to climinate the shock and jar of the type bar impact)  
Finished in dull green or black enamel, with characters in white.  
e per set $4.00  
  
NOISELESS AUTOMATICS  
  
Made by the Srexp Key Manvracturixc Company, Ixconrora:  
SOS Fooniyn sNews) Voeas: Sols by Sypemriteridediore otra  
  
[vor LOCALIZED LIST OF SALES REPRESENTATIVES, SEE GREEN PAGES.]  
  
Combines a desk clamp  
d sound and shock ab-  
rbing device for type-  
riters. Two frame pieces  
ch hold two cups, into  
jich the rubber feet of  
typewriter are insert-  
mitting the weight  
‘the typewriter to rest  
m felt. covered coil  
forming an ar-  
ent which is a non-  
ductor of sound, and  
When the feet of the machine are inserted into the cups, and the ch applies a cushion-  
cups in turn are dropped into openings of the bridge or side frames — effect to the operation  
of the device, the typewriter, instead of resting solidly, is held in he typewriter.  
suspension, (by the cup springs, and also by the spring tension of — BM onan each  
the bridge itself) yet the necessary rigidity for efficient operation is irsivpewriter or  
maintained. The principle of suspension has the effect of imparting a — Minto the deal by  
live, flexible action to the keys; the noise of impact of the type bars — Mth fook-laten hel  
and carriage movement is lessened; the jar on the working parts is Rirition by = oecte By  
reduced. \* 2  
‘Adjustments are provided to accommodate the feet spacing of any — fe pee re tape  
typewriter. Because the thread for the fastening bolt of the feet d in a drop-head desk.  
differs in each machine, special feet with the correct bolts are furn-— Mcangenent permite  
ished with each outfit.’ A slide locks-in the feet, serving the same MMioval of thet Ss  
purpose as a clamp to hold the machine securely when the desk head — E 'ypewriter at any time for cleaning, etc.  
js dropped. The typewriter may be detached instantly if desired. The — he apaidels are made for each typewriter, the difference being  
entire mechanism is fastened to the desk with four screws on the fe ahacing of the cups to accommodate the ‘feet, and the position  
adjusting slide. These allow the typewriter to be pulled forward to length of the hook for holding the typewriter with respect to the  
n and dimension of the side frames.  
  
suit operator. z  
Models and Prices ,  
  
Made in one Universal Model, adjustable for all makes of standard J  
  
typewriters, Special rubber feet and fastening bolts are supplied 0!  
  
machine it Is desired to equip.  
  
Price, F. 0. B. Chicago.  
  
MASTER SPEED KEYS  
  
Made by the Seep Kny Manuracturtne Coarany, Ixcorroraten, 2  
  
bus Place, Brooklyn, New York. Sold by typewriter dealers.  
[FOR LOCALIZED LIST OF SALES REPRESENTATIVES, sét GHEEN PACES]  
  
Serving the same purpose as rubber cushion oid  
for typewriters, these keys are of metal and CCl ong  
construction, employing a more positive and perm  
cushioning medium. Each key consists of an ass  
comprising the key top or striking surface of  
black celluloid, a base section, and a coil sprint.  
top surface rides on a tension set up by the sprint  
when touched with the finger, is slightly, T°  
similar to but more pronounced than rubber.) joys  
"base section slips on over the top of the stand key  
on a typewriter, in a manner similar to that by which Tr!  
  
0 Colum  
  
TQUIPMENT-RESEARCIT CORPORATION, CHICAGO EQUIPMENT-RESEARCH CORPORATION, CHICAGO