(pfc)

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(pfct)

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(pct)

Advertising & Public Relations Dir: Diane G Yancey
Professional staff 31: chemistry; mechanical engineering; designing;
drafting; 14 technicians and auxiliarles
Field of R&D: Product and process development on reconstituted
tobacco products for the tobacco industry, based on analytically
oriented research programs; mechanical engineering applied in
product research and development for a complete range of tobacco
handling, making and packaging equipment

-Industrial Products Group 6301 Midlothian Turnpike, Richmond, VA 23225 (804) 276-1900 .9 V Pres & Group Exec: Douglas P Crane

--Bakery Systems Division, Apparel Equipment Division

(q)

and
Union Machinery Division
2115 W Laburnum Ave, Richmond, VA 23227
(703) 355-7961 Telex: 82-7410 and 82-8316
Cable: AMMAFOCO RCH
Professional staff 20: 14 technicians and auxiliaries
Field of R&D: Bakery research including continuous and batch dough processing, mixing processes, AMFlow and liquid sponge systems, divider rounder and proofer systems and processes, and baking, packaging and slicing processes; research in automated apparel equipment, photo-optical sensing, fusing applications, seaming and pressing, belt loop sewing and small part profile stitching

and pressing, delt 1009 sewing and small part profile stitching

11 -Potter & Brumfield Division
1200 E Broadway, Princeton, IN 47670
(812) 385-5251 TWX: 810-350-2343 Telex: 27-8451

Pres & Gen Manager: Joseph E Mulheim
V Pres of Engineering: Zeke R Smith
Dir of R&D: Walter J Richert
Dir of Personnel & Industrial Relations: James H Price
Safety Officer: James Romerhausen
Professional staff 28: electrical, mechanical and electronics engineering; physics; chemistry; 96 technicians and auxiliaries
Field of R&D: Applied research, design, development, tooling, testing, evaluation and analysis of solid state switching devices, dry reed relays, precision snap and slide switches, thermal and electromagnetic precision circuit breakers, custom hybrid assemblies, and a broad line of general purpose electromagnetic relays; switching of electrical circuits with solid state or mechanical devices which result in saleable products

-AMF Voit, Inc 3801 South Harbor Blvd, Santa Ana, CA 92704 (714) 546-4220 Pres: Marvin Rimland

-Research and Development Department --Research and Development Department
3801 South Harbor Blvd, Santa Ana, CA 92704
(714) 546-4220 Telex: 678-463
V Pres of R&D: Robert Bruce Henderson
Public Relations Officer: Richard G Smith
Professional staff 13: engineering; design drafting; administration;

7 technicians

Field of R&D: Research in plastics and rubber technology for use in recreational products, manufacturing processes for shaping metals and plastics, rubber technology for commercial products, and underwater technology

AP PARTS COMPANY See Questor Corporation

APM HEXSEAL CORPORATION

(pc)

(p)

44 Honeck St
Englewood, NJ 07631
(201) 569-5700 Telex: 13-3403
President and Director of Engineering: Milton Morse
Chief Engineer: Edward Dimitry
Professional staff 2: electrical and mechanical engineering; 2 technical

Field of R&D: Development of static and dynamic environmental seals for electronic devices; research in contact phenomena, in-sulators, metal flow, and corrosion; design and development of switch and shaft seals, armored power connectors, self-sealing fasteners, screws, bolts, rivets, and colored filters for miniature and sub-miniature clear lamps

A10 A R A CORPORATION 2844 Cascadia Ave Seattle, WA 98144 (206) 723-4600 Pres: James A Curry

.1 -Analysis Research Associates (pfc 2844 Cascadia Ave, Seattle, WA 98144 (206) 723-4600
Dir: James A Curry
Professional staff 3 (1 doctorate): mechanical engineering; computer

graphics; biochemistry; 1 technician
Field of R&D: Product- or market-oriented research on metabolic

aids, specialty foods, beverages, dairy and seafood products; the application of computer generated designs to tiles, wallpaper, rugs, draperies, textile fabrics, packaging films, thermoformable sheet, and decorative art; new specialty products of chemical or biological origin

A R C LABORATORIES 9236 N Tenth Ave

9236 N Tenth Ave Phoenix, AZ 85021 (602) 943-3573 Dir: John T Long, Jr Professional staff 3: hydrometallurgy; inorganic chemistry; organic

chemistry; 1 technician.
Field of R&D: Research in hydrometallurgy of ores and concentrates,
process development and improvement both chemical and mechanical

A12 A R F PRODUCTS, INC
Gardner Rd
Raton, NM 87740
(505) 445-3665
Chmn & Pres: Arthur Maciszewski V Pres of Development: Andrzes Przedpelski Personnel Manager: Larry Burda

Research and Development Laboratory (fct) .1 -Research and Development Laboratory
2559 75th St, Boulder, CO 80302
(303) 443-4844
Dir of Research: Larry G Stolarezyk
Professional staff 13 (1 doctorate): electrical and mechanical engineering; mathematics; 21 technicians and auxiliaries
Field of R&D: Missile-borne transponders; receiver-transmitter
technology; signal generation; instrumentation for the environmental sciences

mental sciences

A13 ARS/SPRAGUE-DAWLEY
(Division of The Mogul Corporation)
P O Box 4220
Madison, WI 53711
(608) 221-2211 Telex: 26-5487
Pres: J H Deming
Gen Manager, Head of Lab & Recruiting Contact: R D Fortney
Group V Pres of Sales: F B Young
Professional staff 3 doctorates: veterinary medicine; microbiology;
80 technicians and auxiliaries

80 technicians and auxiliaries
Field of R&D: Product-oriented research in animal genetics, gnotobiotics and microbiological diagnostics

A14 ASG INDUSTRIES, INC
P O Box 929
Kingsport, TN 37662
(615) 245-0211 Telex: 55-3411
Chmn: Nelson M Loud Pres & Chief Exec Officer: F M Herman Dir of R&D: A H Agett

.1 -Corporate Laboratory (p)
P O Box 929, Kingsport, TN 37662
(615) 245-0211
Manager of Lab: T C Carson
Manager of Personnel Admin: E R Marr, Jr
Professional staff 9: glass ceramics; mechanical engineering; analy-

sis; 15 technicians
Field of R&D: Applied research in the flat glass field and related raw
materials and finished products

A15 AST/SERVO SYSTEMS, INC
930 Broadway
Newark, NJ 07104
(201) 484-4233 Telex: 13-9164
Pres: Julian F Reichman

V Pres: Walter B Reichman Professional staff: 17 technicians and auxiliaries Field of R&D: Design, development, and testing of servo systems, servomechanisms, and related instrumentation

A-T-O INC 4420 Sherwin Rd Willoughby, CH 44094 (216) 946-9000 Telex: 98-5420 A16

⁽p) research for parent company (f) contract research for others (c) consultation for others (t) testing and analysis for others