

# EQUIPMENT



*The Technical Side*

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*Production Gains Momentum*

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*Broadcast Equipment—1947*

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*RMA Personnel—Committees*

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*Consulting Engineers*

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*Chief Engineers of Stations  
In United States and Canada*

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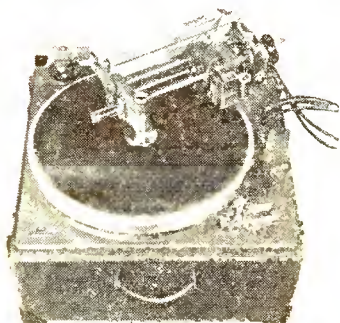
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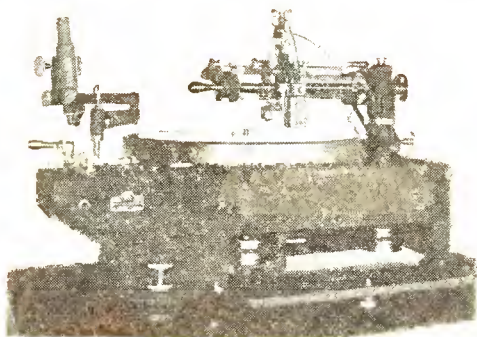
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# PRODUCTION GAINS MOMENTUM

By S. P. TAYLOR, *Mgr. Distributor Sales, Radio Div., Western Electric*

**P**RODUCTION to meet the radio industry's increased demands for new equipment was the Western Electric Radio Division's prime objective during 1946. At the beginning of the year the phenomenal growth of FM, the pressing



S. P. Taylor

needs for replacement of equipment in existing stations and the many new applications of radio and audio facilities posed seemingly unsurmountable production problems for the electronic industry.

The many new products designed by Bell Telephone Laboratories and the continuing improvement and re-design of established equipments necessitated almost complete re-tooling at Western Electric before production in large quantities could be attained. Two new plants were acquired in Winston-Salem and Burlington, N. C. adding over 500,000 square feet of factory space to Western's production facilities devoted exclusively to the manufacture of radio broadcasting, radio communications equipment and electronic apparatus of all types.

It was only natural for the Bell Labs-Western Electric team responsible for the negative feedback amplifier, the grounded plate FM transmitter, the non-directional and cardioid microphones and other major developments, to continue pioneering in the many expanded fields of radio communications. New Bell Telephone Laboratories designs which were put into production by Western Electric during 1946 included a multitude of items from microphone to antenna.

Early in 1946 Western Electric served the radio industry by field conversion of installed Western Electric FM transmitters and within a short time after the FCC assigned the new frequencies, many of these transmitters were converted and back "on the air" at the station's new frequency. By the end of the year 22

Western Electric FM transmitters were in operation daily in the United States.

High points of the year included the introduction of the 54A Clover-leaf Antenna for FM. Symbolically this "good-luck" antenna made its bow to broadcasters on St. Patrick's Day. The use of this high gain, broad band antenna eliminated the need of complex coupling and mounting equipment and solved many of the pressing technical problems of the industry.

The new line of "Transview" FM Transmitters with power ratings up to 50 KW, was announced in July 1946 and the first 1 KW equipment of this new series was delivered in October. These transmitters employ the field tested Western Electric method of Direct FM and Synchronized center frequency control and were engineered for the best over-all efficiency and the lowest possible distortion and intermodulation products.

New developments in Speech Input Equipment included Custom Built Studio Control Desks and the Relay Type Master Control Line Switching System. Because of the unique "plug-in" type of unit construction, control booth equipment using standardized components can be custom built for a station's individual needs and assembled in a compact attractive console. The Line Switching System in itself is an outstanding piece of flexible audio facility equipment. Individual panels, one for each line, can be added to accommodate the number of lines to be controlled.

A host of new Western Electric electron tubes, thermistors, crystals, deposited carbon resistors, etc. opens the way for still further advancement in the radio and communications art.

The Graybar Electric Co., national distributors for Western Electric, increased its service facilities for the industry by the addition of a number of trained sales engineers with electronic and broadcasting experience supplemented by Western Electric's newly organized Broadcast Field Engineering Force assures the broadcaster of full realization of the unsurpassed quality and reliability which is designed and built into the equipment.

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# BROADCAST EQUIPMENT-1947

By CLYDE E. DICKEY, Gen. Sales Mgr. Federal Telephone & Radio Corp.

**A** POLICY of continuing development and improvement coupled with maximum production of currently needed equipment is the keynote of Federal Telephone and Radio Corporation's broadcast equipment manufacturing program for 1947. Federal, a manufacturing associate of International Telephone and Telegraph Corp., is being called upon to supply a substantial portion of the equipment required by new stations, particularly FM, as well as replacement equipment for improvement and expansion of existing AM and FM stations. To meet these needs in the shortest possible time with equipment featuring the most recent advances in radio engineering has been Federal's prime consideration in developing its 1947 production program.

The diversified line of Federal equipment being produced under this policy includes such items as transmitters for AM and FM, broadcasting tubes for those applications, high frequency cable and a complete line of speech-input and transmitter control equipment. In the latter field, the latest model of the Federal transmitter control console was already being delivered at the start of 1947 and will be increasingly available during the year. Studio control consoles, as well as speech-input and allied studio equipment, have been subjected to the same intensive production schedule and are expected to be available in ample quantity within the next few months.

Federal has been a leader in the broadcast tube field since the earliest days of radio and is currently emphasizing the production of such tubes as a recently developed series of high output FM triodes and the highly regarded 6C22 television triode . . . the first tube ever to develop 600 watts output at 600 megacycles. In addition, the full Federal line of standard broadcast, industrial and special application tubes are being produced in quantities sufficient to permit immediate delivery.

In the field of FM, an indication of the extent of the 1947 equipment requirements came at the end of 1946 when the FCC announced that more than 900 applications for FM broadcasting licenses had been received and 426 construction permits and 211 conditional grants had been issued.

Since FCC has indicated the desirability of stations getting on the air as soon as possible after issuance of the CP and with the highest power obtainable within the allowed power output, it is noteworthy that Federal is now delivering transmitters rated at 1 KW, 3 KW and 10 KW. These are designed so that amplifiers for higher power may be added later.

Under this program, Federal has already made delivery on a large number of FM transmitters, antennas and associated equipment, most of which are already on the air. The first Federal 10 KW transmitter went on the air for Station WELD, Columbus, Ohio, early in 1947.

The accelerated production of Federal transmitters has been matched by the production rate of Federal's exclusive high-gain, super-directive Square Loop FM antenna. Hailed as one of the major post-war FM developments, this antenna has brought a new concept of operating efficiency and effectiveness to FM broadcasting. Impressive savings in initial transmitter investment and in day-to-day operating costs, as well as super-efficient coverage and high signal quality, are achieved through the use of these unique Square Loop antennas.

Thus is Federal carrying out its program of producing 3 and 10 KW FM transmitters to catch up with the demand in the early part of the year, pending delivery of 25 and 50 KW equipment later in the year.

The scope of expansion in FM during 1947 becomes impressively apparent through the FCC's estimate that 700 FM stations will be on the air by the end of the year. Federal is confident that the demands for its share of these requirements will be met during 1947.

Manufacturers of Frequency Modulation broadcasting equipment, confronted with the demands of an ever-increasing number of FM licensees anxious to go on the air, have adopted a policy of supplying low-powered temporary equipment rather than holding deliveries until permanent high-powered systems are available. Gearing this policy to a program of maximum production, the industry seems confident that the bulk of the demand will be satisfied, on an interim basis, at least, by the end of 1947.

# BETTER RECORDING EQUIPMENT

By THOMAS B. ALDRICH, General Sales Manager, Presto Recording Co.

AS RECENTLY as eight years ago the quality of reproduction offered by instantaneous recordings was such that the average broadcasting station was by no means certain that such recordings were of any value to it. The acetate disc was just beginning to offer a material quality assuring some sort of uniformity in frequency response, lack of surface noise and consistency of behavior. Today the acetate coated disc is performing splendidly notwithstanding the fact that recording personnel continue to wish for something better.



Thomas B. Aldrich

Advances in turntable (recording and transcription) equipment have been noticeable during the last eight years but improvements in magnetic cutting heads and reproducers have been more important. The standardization of the desired characteristic by the National Association of Broadcasters has been of great help. Today the best manufacturers offer equipment which will assure the user of a recording having adequate modulation to minimize surface noise, low distortion, and the proper characteristic—the latter of course, assumes adequately wide frequency response. The manufacturers of broadcast reproducers are today offering products whose characteristics complement the accepted standards for recording. As a result of small mechanical impedance and adequate vertical compliance of the stylus, distortion has been reduced to a new minimum. Frequency response equals or exceeds the recorded frequencies. The wearing of transcriptions has been greatly reduced and the durability of the pickup head much improved.

Diameter equalization to pre-emphasize high frequencies toward the center of the disc has become less important now that the NAB recording characteristic is becoming widely accepted. The NAB equalization at 10,000 cps is such that to add to this the usual diameter equalization at the inner part of a six-

teen inch disc would only produce high frequency overloading and distortion. Some recording engineers still wish to add a small degree of high frequency equalization for diameter but the amount is strictly limited.

It is to some extent surprising that a few individuals still refuse to completely accept the new recording characteristic. That these few may consider their own curves superior is understandable but those who must play back these off-standard recordings are faced with a real problem. Fortunately the situation is better today than previously and the characteristics of reproducers and compensators may be standardized with less fear of discs of individualized response making their appearance.

The high power amplifier, 50 watts or more, is obviously what the recording engineer of today wants. The 10 watt was adequate for recording a flat characteristic of limited high frequency content. However, equalized high frequency peaks can easily require an instantaneous output peak of 35 to 45 watts. It may be argued that a cutting head will not respond to such power but at least the 50 watt amplifier will and without reaching a point of high distortion.

The trend in turntable drives seems to be leaning toward direct gear drives at both 78 and 33-1/3 rpm. Idler operated rim drives, belt drives, and ball bearing planetary drives all have their advantages and disadvantages. Positively connected gear drives offer the most perfect speed regulation and modern tools make possible a much finer gear than previously—a gear which can be completely filtered with a reasonably simple mechanism.

The requirements for frequency modulation are somewhat higher than for amplitude modulation. The best recording and transcription equipment can meet the new specifications as far as speed regulation and mechanical background noise are concerned. Uniform frequencies between 30 and 15,000 cps are not strictly attainable with commercial equipment today but are closely approached. Considering the fact that most of the listening audience will not be in a position to purchase receivers of such fidelity, the frequency question should not be serious.

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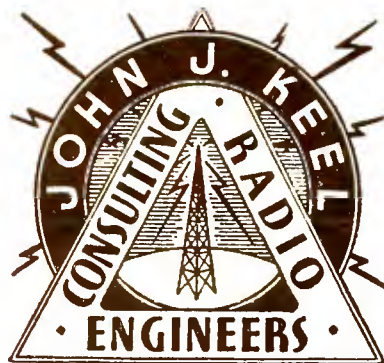
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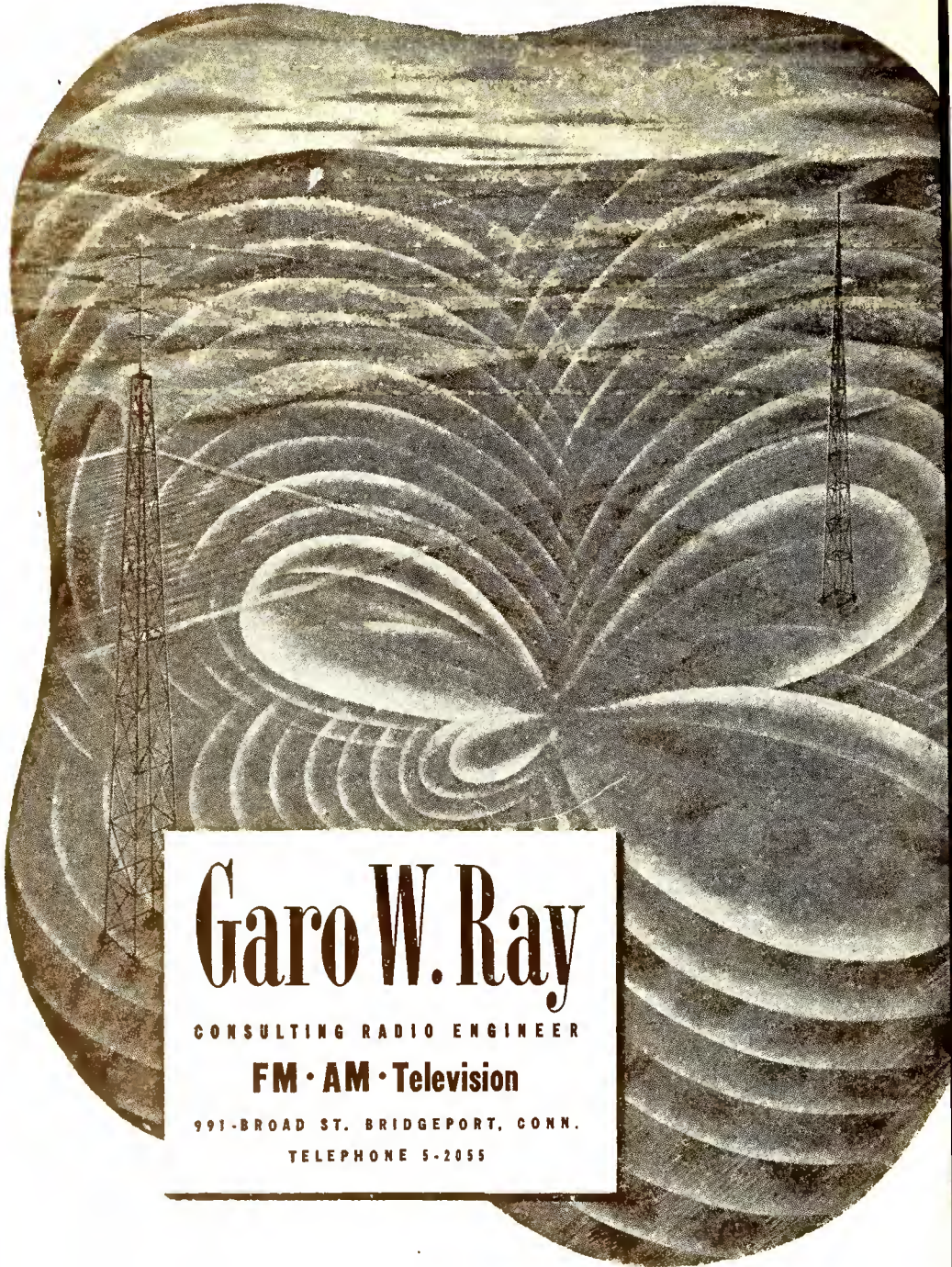
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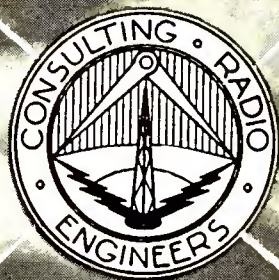
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KMYR ..... Glen James  
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General Manager.....F. A. Yarbrough  
PRODUCTS: Crystal & dynamic micro-  
phones, crystal phonograph pickups, micro-  
phone stands.

### American Transformer Co.

178 Emmet St., Newark 5, N. J.  
Phone: Bigelow 3-4444

President-Treasurer.....Thomas M. Hunter  
Executive Vice-President...Stuart F. Marvin  
Vice-President.....A. A. Emlen  
Vice-President.....Walter Garlick, Jr.  
Advertising Manager.....George G. Felt

PRODUCTS: Amplifiers, ballast transform-  
ers for fluorescent lighting, distribution  
transformers, electronic components, indus-  
trial-dry type-indoor or outdoor use indus-  
trial transformers, air cooled industrial phase  
changers, modulation reactors, modulation  
transformers, net work transformers, oil or  
abestol-immersed plate transformers, power  
transformers, precipitation transformers, ra-  
dio type "P" precision line, radio silcor line  
audio components, rectifiers, regulators, test  
sets, transtats, "W" type transmitter, wave  
filters, welding and soldering transformers.

### Amperex Electronic Corp.

79 Washington St., Brooklyn, N. Y.  
Phone Main 5-2050

Vice-Pres. Sales Manager.....S. Norris  
PRODUCTS: Electronic tubes for com-  
munication, industrial, television, electro-  
medical and special purposes.

### Amplifier Corp. of America

398 Broadway, New York 13, N. Y.  
CAAnal 6-7612

Chg. Prod. & Procurement.....R. Epstein  
Engineering & Sales.....N. M. Haynes  
Chief Engineer.....A. C. Shaney  
Sales Manager.....H. S. Manney

PRODUCTS: Electronic equipment, Regu-  
lated Power Supplies, Transformers, Filter  
Networks.

### Amy, Aceves & King, Inc.

11 West 42nd St., New York 18, N. Y.  
Phone LOngacre 5-6622

President.....Ernest V. Amy  
V. P.-Treasurer.....Frank King  
Secretary.....Julius G. Aceves  
Sales Manager.....F. A. Klingenschmitt

PRODUCTS: Antenna Systems, Television  
and FM Antennas. Electronic Developments.

### Andrea Radio Corp.

27-01 Bridge Plaza North, L. I. C. 1, N. Y.  
Phone: STillwell 4-5411

President.....F. A. D. Andrea  
Chief Engineer.....H. L. Heindel  
PRODUCTS: Radio and Television Re-  
ceivers and Phono. combinations.

### Ansley Radio Corp.

41 St. Joes Ave., Trenton 9, N. J.  
Phone: 4-1175

President.....Arthur C. Ansley  
Vice-President.....Anne Klein Ansley  
General Mgr. ....C. A. Clinton  
Plant Superintendent.....C. Donato  
Advertising Mgr. ....Harriet Westin

BRANCH OFFICE: Empire State Bldg.,  
N. Y. C. Show room, New York, N. Y., Phone,  
Longacre 3-2768, Anne Klein Ansley.

PRODUCTS: Radio-phonograph combina-  
tions (Ansley Dynaphone), Electronic piano  
(Ansley Dynatone), Built-in-wall radio (Ans-  
ley Paneltone).

### The Astatic Corp.

Harbor & Jackson Sts., Conneaut, Ohio  
Phone: 12-656

President.....F. H. Woodworth  
Vice President.....C. M. Chorpening  
Treasurer.....C. B. Fraser  
Sales Mgr.—Jobber Div...R. T. Schottenberg  
Sales Mgr.—Manufacturing

Div.....W. J. Doyle  
Chief Engineer.....G. A. Morrell  
Dir. of Purchasing.....H. G. Green

PRODUCTS: Microphones, Phonograph  
pickups, pickup cartridges, recording heads,  
microphone desk stands, and accessories.

### Audak Company

500 Fifth Ave., New York, N. Y.  
Phone LA 4-3723

Contact.....Geo. V. Sullivan  
BRANCH OFFICES: All key cities.  
PRODUCTS: Microdyne Pickups, Cutting  
Heads, and Acoustic Instruments.

### Audio Devices, Inc.

444 Madison Ave., New York 22, N. Y.  
Phone: PLaza 3-0973

President.....Wm. C. Speed  
Vice-President-Sec.....Bryce Haynes  
Vice-President.....N. K. Hoskins  
Research Engineer.....E. J. Franck  
National Sales Manager.....C. C. Pell, Jr.

PRODUCTS: Recording Discs (Audio-  
discs), Recording and Playback Points  
(Audiopoints).

**Automatic Manufacturing Corp.**

900 Passaic Ave., East Newark, N. J.

Phone: Harrison 6-6630

President & Gen. Mgr. .... Martin H. Benedek  
 Vice-Pres., Charge of Sales.... Bert E. Smith  
 Chief Engineer..... Joseph R. Mazzola  
 Credit Manager..... M. E. Silver  
 Purchasing Agent..... J. A. Heimbruch

PRODUCTS: Mica trimmer condensers, intermediate frequency transformers, radio frequency coils, R. F. choke coils, adjustable padder condensers, permeability tuners.

**John F. Beasley Construction Co.**

P. O. Box 1624, Muskogee, Okla.

Phone Muskogee 4762

Manager..... John F. Beasley  
 Construction Mgr..... James H. Beasley  
 Erection Superintendent... Sydney N. Beasley  
 Office Manager ..... C. A. McLarty, Jr.

BRANCH OFFICE: 1614 Mercantile Bank Bldg., Dallas, Texas, Phone, Riverside 3228, John F. Beasley.

PRODUCTS: Steel erection (radio towers).

**Bendix Radio (Division of Bendix Aviation Corp.)**

East Joppa Rd., Towson, Md. (Gen. Offices)  
 Phone: Tuxedo 4020

Gen'l Mgr..... W. P. Hilliard  
 Divisional Comptroller..... F. S. Gutekunst  
 Divisional Attorney..... Leo Horney  
 Dir. of Engineering & Research... W. L. Webb  
 Dir. of Industrial Relations..... R. Smith  
 Factory Manager..... E. K. Foster  
 Director of Procurement... R. A. Anderson  
 Credit Manager..... C. T. Dwyer  
 General Sales Manager—Radio  
 and Television ..... L. C. Truesdell  
 Advertising Manager—Radio  
 and Television..... Earl L. Hadley  
 Sales Manager—

Communications Radio... J. W. Hammond

PRODUCTS: Aviation radio receivers, transmitters, radio compasses, electronic measuring equipment and accessories, broadcast receivers and radio-phonograph combinations, television receivers, headphones, microphones.

**Blaw-Knox Co.**

Farmers Bank Bldg., Pittsburgh 22, Pa.

Phone St. 2700

Manager, Tower Sales..... E. J. Staubitz  
 Asst. Mgr., Tower Sales..... A. H. Jackson

BRANCH OFFICES: Brown Marx Bldg., Birmingham 3, Ala., Phone: 3-4931, Wm. E. Balliet; 607 Peoples Gas Bldg., Chicago 3,

Ill., Phone: Harrison 7633, J. C. McQuade; 342 Madison Ave., New York 17, N. Y., Phone: VANDerbilt 6-0661, T. M. Avery; 1617 Pennsylvania Blvd., Philadelphia 3, Pa., Phone: Rittenhouse 1681, W. F. Simmons; 423 Munsey Bldg., Washington 4, D. C., Phone: Republic 3142, J. N. Critchlow; Export Dept.: 342 Madison Ave., New York 17, N. Y., Phone: VANDerbilt 6-0661, H. T. Schwier.

PRODUCTS: Antenna Towers for FM, AM and Television.

**William Brand & Co.**

276 Fourth Ave., New York 10, N. Y.

Phone: ORchard 4-6960

Partners.

William Brand, William Naumburg, Jr.  
 Sales Manager..... J. R. Garey

BRANCH OFFICES: 325 W. Huron St., Chicago, Ill., Phone, Superior 1782, Manager, Earl W. Brinson; Case Bldg., Rochester, N. Y., Gilbert Cislason; 647 Main St., Hartford, Conn., E. E. Pack; 600 Pingree, Detroit, Mich., Ralph Hulton.

PRODUCTS: Insulation Materials, electrical; Varnished Cotton Tubing; Varnished Glass Tubing; Saturated Sleeving; Plastic Insulated Wire; Plastic Insulating Tubing; Varnished Cambric, Cloths, Tapes; Mica, Block and Films; Mica-Plate; Wire Markers, identification.

**Browning Laboratories, Inc.**

750 Main St., Winchester, Mass.

Phone: Winchester 2121

President..... G. H. Browning  
 V. P.-Sales Manager..... R. L. Purrington  
 Purchasing Agent..... C. W. Craven  
 General Manager..... C. H. Day  
 Chief Engineer..... F. A. Spindell

PRODUCTS: Frequency Meters, Audio & Radio; Frequency Standards, Cathode Ray Oscilloscopes, Capacity Relays, Ultra-High and Super-High Signal Generators, FM-AM Tuners, Amateur Frequency Meters, Capacitance Alarm Systems, and Special Electrical Equipment.

**The Brush Development Company**

3405 Perkins Ave., Cleveland 14, Ohio

Phone: Endicott 3315

General Sales Manager..... Blair Foulds  
 Mgr. Magnetic Recording

Dept..... R. B. Matheson  
 Mgr. Acoustic and Hearing

Aid Div..... H. D. Hill  
 Mgr. Industrial

Instrument Div..... M. P. Odell  
 Mgr. Crystal Div..... R. B. Nottingham

PRODUCTS: Magnetic Recording Equip-

ment, Recording Equipment: Record cutters, phonograph pickups, cartridges, Microphones, headphones, Hushatones.

### **William W. L. Burnett Radio Lab.**

4818 Idaho St., San Diego 4, Calif.  
Phone Talbot 4943

Chief Eng.-Owner... William W. L. Burnett

PRODUCTS: Piezo-Electric Crystals, Holders, Constant Temperature Ovens, Frequency Measuring Equipment, Laboratory Equipment, Conducting of Radio Laboratory Measurements, Frequency Monitoring Service, Special Laboratory Testing Equipment.

### **California Telephone & Electric Co.**

6075 W. Pico Blvd., Los Angeles 35, Calif.  
President..... C. W. Evans  
Supt., Intercommunicating Equipment

M. E. Harris  
Foreman, Microphone Dept..... O. B. Carrier

PRODUCTS: Microphones, intercommunicating telephones, talk-back equipment, amplifiers.

### **Chicago Telephone Supply Co.**

1142-1228 W. Beardsley Ave., Elkhart, Ind.  
Phone: Elkhart 1205

President..... F. C. Best  
Sales Manager..... W. A. Nicely  
Chief Engineer..... N. C. Schellenger  
Credit Manager..... M. F. Schneck  
Purchasing Agent..... B. S. Turner

PRODUCTS: Volume controls, tone controls, switches, plugs, jacks, headsets, ringers, generators, remote controls, switch keys, push switches.

### **Clarostat Mfg. Co., Inc.**

130 Clinton St., Brooklyn, N. Y.  
Phone: Main 4-1190

Pres.-General Manager..... Victor Mucher  
Treasurer..... William Mucher  
Secretary..... Charles H. Burnell  
Chief Engineer..... George Mucher  
Sales Engineer..... I. J. Youngblood

BRANCH OFFICES: 540 No. Mich. Ave., Chicago. PRODUCTS: Fixed and Variable Power Resistors, Power Rheostats, Power Resistor Decade Boxes, Wire Wound Potentiometers, "T" "L" Cism Pads, 25 and 10 Watt Attenuators, Special Resistor Products, and Composition Potentiometers.

### **Collins Radio Co.**

Cedar Rapids, Iowa  
Phone: 3-3281

President..... Arthur A. Collins  
Exec. V. P.—New York..... W. J. Barkley  
Vice President..... R. S. Gates  
Vice-President..... L. M. Craft  
Secretary-Treasurer..... S. J. Strom

BRANCH OFFICES: 11 W. 42nd St., New York 18, N. Y., Phone, Lackawanna 4-0229,

Executive, W. J. Barkley; 458 S. Spring St., Los Angeles 13, Cal., Phone, Tucker 9404, Carl W. Service.

PRODUCTS: AM Broadcast Transmitter, FM Broadcast Transmitters, Broadcast Speech Equipment and Accessories, Airborne Radio Communication Transmitters and Receivers, Ground Station Radio Communication Transmitters and Receivers, Radio Amateur Transmitters, Receivers, and Variable Frequency Oscillators.

### **Colonial Radio Corp.**

254 Rano St., Buffalo 7, N. Y.  
Phone: Riverside 2450

President..... A. H. Gardner  
V. P. in charge of Eng..... H. C. Forbes  
V. P.-Secy.-Comptroller..... H. E. Riordon  
Works Manager..... J. C. Ryan  
Director of Purchases..... J. K. McDonough  
Manager-Industrial Relations..... C. J. Kolb  
Sales Mgr.—Home Set

Division..... T. P. Cunningham  
Sales Mgr.—Automotive

Division..... C. H. Symington  
Service Manager..... R. K. Pew

BRANCH OFFICES: Bloomington, Ill., Phone, 7631, H. P. Wangelin; 1020 Fisher Bldg., Detroit, Mich., Phone, Madison 7251, C. H. Symington.

PRODUCTS: AM and FM radio receivers, automobile receivers, battery operated radio receivers, radio-phonograph recorder combinations, television receivers.

### **Communication Equipment & Engineering Co.**

5646 W. Race St., Chicago, Ill.  
Phone: EStebrook 3109-10

President..... Robert A. Clark  
Vice-President..... R. Farrell  
Secretary-Treasurer..... R. E. Meyers

PRODUCTS: Transmitters, receivers, amplifiers and test equipment, carriers telephone and telegraph equipment.

### **Continental Carbon, Inc.**

13900 Lorain Ave., Cleveland 11, Ohio  
Phone: CLearwater 6500

President-Sales Manager.... G. F. Benkelman  
PRODUCTS: Fixed composition resistors, suppressors, precision resistors.

### **Continental Electric Co.**

Geneva Illinois  
Phone: Col. 1216

President & Treasurer..... H. A. McIlvane  
Secretary..... O. T. McIlvane  
Vice-President..... W. S. Sims  
Vice-Pres. in Charge of Publicity & Sales  
R. E. Smiley

Vice-Pres. in Charge of Engineering  
J. H. Hutchings  
Export Manager..... E. D. Magnus

**BRANCH OFFICE:** 188 W. Randolph St., Chicago, Ill., Phone Andover 5029, Vice-President in charge of Publicity and Sales, R. E. Smiley.

**PRODUCTS:** Electronic tubes, phototubes, rectifier tubes, grid control tubes, fluorescent lamps, ultra violet and stationery lamps. Special tubes of all kinds.

**Cornell-Dubilier Electric Corp.**

333 Hamilton Blvd., S. Plainfield, N. J.  
Phone: PLainfield 6-9000

President.....Octave Blake  
Vice-President.....William Dubilier  
Vice-Pres.-Treas.....Hlaim Beyer  
Vice-President.....Wm. M. Bailey  
Vice-President.....Paul McK. Deeley  
Vice-President.....Felix Weiss  
Vice-President.....T. E. Abeel  
Vice-President.....Max Bleich  
Secretary.....Kenneth E. Ryan  
Asst. Treasurer.....L. F. Geiser  
Asst. Secretary.....M. F. Keating  
Comptroller.....J. A. Bertolacci

**PRODUCT:** Capacitors.

**Corning Glass Works**

Corning, New York  
Phone: Corning 372

President.....W. C. Decker  
Vice-President-Sales Mgr....C. D. LaFollette  
Mgr. Electronic Sales Dept....C. J. Phillips

**BRANCH OFFICES:** New York, N. Y., C. P. Eggleton; Chicago, Ill., J. D. Brown; San Francisco, Calif., T. J. Thompson.

**PRODUCTS:** Glass envelopes for tubes used for radio receiving, broadcasting, cathode ray, television and all other electronic purposes, tubing and special sealing glasses, insulators, coil forms, resistor tubes, metalized glassware, including timmer capacitors, resistors, etc.

**Cornish Wire Co., Inc.**

15 Park Row, New York, N. Y.  
Phone CO 7-2525

President.....John Cook  
Contact.....W. F. Osler, Jr.

**PRODUCTS:** Radio and Electrical Wires and Cables.

**The Crosley Corp.**

1329 Arlington St., Cincinnati 25, Ohio  
Phone: Klrby 6600

President.....I. B. Babcock  
Vice-President &

General Manager.....R. C. Cosgrove  
Vice-Pres. in Charge of Research & Engr.

L. M. Clement  
V. P.-General Sales Mgr.....S. D. Mahan  
Dir. of Purchases.....Frank Warner

Asst. Secy. & Asst. Treas.....E. J. Ellig  
Dir. of Industrial Relations...G. F. Gamber  
Asst. to V. P. & Gen. Mgr..Lincoln J. Karmen  
Dir. of Purchases.....Frank W. Warner  
Controller.....L. W. Adkins

**PRODUCTS:** Radio—AM, FM, Television.

**Crystal Research Laboratories, Inc.**

29 Allyn St., Hartford 3, Conn.  
Phone: 7-3215

President-General Manager..Samuel I. Ward  
Vice-President.....Henry F. Jochim  
Secretary.....Frances M. Andrews  
Mgr.—Crysecon Div.....Philip Scharr  
Mgr.—Crystal Div.....Ernest B. Lewis  
Mgr.—Metronoma Div....D. Harold Hickey  
Chief Engineer.....Walther Anderson  
Purchasing Agent.....K. O. Jacobs  
Mgr.—Metavac Div.....G. Fadel  
Machine Shop Head.....George Waller  
Ultrasonorator Div. Head....Lewis Harden  
Personnel Mgr.....D. H. Hickey  
Research Physicist.....Dr. Leo Epstein

**BRANCH OFFICES:** 37 M Mill St., Unionville, Conn., Phone, Farm. 599, Philip Scharr; Avery Ave., Flushing, N. Y., Phone, FLushing 9-8839, George Fadel.

**PRODUCTS:** Quartz oscillating plates (communication and non-communication); the Ultrasonorator; the Metronoma; Padder and postage stamp condensers; fused quartz fabrications; metal and chemical coatings; amateur xtals and components; synthetic jewel operations.

**De Mornay-Budd, Inc.**

475 Grand Concourse, New York 51, N. Y.  
Phone: Melrose 5-1900

President .....R. DeMornay  
Sales Manager .....Eugene L. Berman  
Chief Engineer.....Leonard Sherbin  
Comptroller.....Roger Baker  
Production Manager.....Louis Della Penna  
Electronic Sales.....Charles George  
Purchasing Agent.....Robert Heffernan  
Dir. of Sales Prom.....Karl A. Barleben  
Dir. of Adv. & Pub.....Ben Kerner

**PRODUCTS:** Navigational equipment, marine and aircraft radar, R. F. transmission lines, stub-supported coaxial lines, mixers, rotating joints, directional couplers, H. F. test equipment, modulators, I. F. strips, antennae, bench and field testing equipment, wave guides.

**Doolittle Radio, Inc.**

7421 S. Loomis St., Chicago 36, Ill.  
Phone: Radcliffe 4100

President.....E. M. Doolittle  
Chief Engineer.....H. Knaack

Sales Manager.....H. V. Carlson  
Purchasing Agent.....M. Yatsak

**BRANCH OFFICES:** Manufacturers representatives throughout the United States.

**PRODUCTS:** Emergency radio communications equipment, including station transmitters and receivers, mobile transmitters and receivers and all accessories. Concentric transmission line, frequency monitors, distortion meters, broadcast frequency monitors.

### **Allen B. DuMont Labs., Inc.**

2 Main Ave., Passaic, N. J.  
Phone Passaic 3-1616

President.....Allen B. Du Mont  
Vice-President.....Leonard F. Cramer  
Secretary.....Bernard Goodwin  
Treasurer.....Paul Raibourn  
Dir. Tele B'casting.....Leonard F. Cramer  
Gen. Mgr. Mfg. Div.....C. Edwin Williams  
Gen. Mgr. Tech. Sales....G. Robert Mezger  
Dir. of Research.....Thos. T. Goldsmith, Jr.  
Chief Engineer.....P. S. Christaldi  
Controller.....B. L. Graham  
Gen. Mgr. Tele Sales.....Ernest A. Marx  
Plant Supt.....Bruce T. DuMont  
Purchasing Agent.....F. P. Rice  
Personnel Director.....H. Houston

**BRANCH OFFICE:** 515 Madison Ave., New York, N. Y., Phone, ELdorado 5-4822, Manager, Samuel H. Cuff.

**PRODUCTS:** Television Receivers, Transmitters and Studio Equipment, Cathode-Ray Tubes and Oscillographs and Material Test Instruments.

### **Dumont Electric Corp.**

34 Hubert St., New York, N. Y.  
Phone: CANal 6-7980

President & Sales Manager...Philip Dubilier  
**PRODUCTS:** Paper, electrolytic and mica condensers.

### **DX Crystal Co.**

1200 N. Claremont Ave., Chicago 22, Ill.  
Phone: ARmitage 3740

Co-owner.....Louis J. Patla  
Co-owner.....Maurice P. McLean  
Sales Manager.....George H. Timmings  
Chief Engineer.....John Laban  
Credit Manager.....Corliss Bangart  
Purchasing Agent.....Jane Sullivan  
Advertising Manager.....Michael Mayger

**PRODUCTS:** Quartz xtals, toroid coils, coil transformers, screw machine parts, universal joints and mechanical assemblies, loudspeakers.

### **Eastern Electronics Corp.**

41 Chestnut St., New Haven 11, Conn.  
Phone: New Haven 8-3191

President.....Amy G. Annis  
General Manager.....J. Robert Potter  
Director of Engineering..Roland S. Bruneau  
Secretary-Treasurer.....John J. Sullivan

Chief Mech. Engr.....George H. Newton  
Office Manager.....Maurice E. Fossett

**PRODUCTS:** Radio, electronic, and laboratory test equipment, Precision Wire Wound Resistors, Phonograph Turntable Units, Portable Phonograph Record Players, Radio Receiving Sets, Rotary Selector Switches, Wheatstone Bridges, Impedance Bridges, Audio Oscillators, Radio-Phono Combinations.

### **Hugh H. Eby, Inc.**

18 W. Chelton Ave., Philadelphia 44, Pa.  
Phone: TENnessee 9-1800

President.....James L. Hawley  
V. P.-Treasurer.....Frank Holmstrom  
Secretary.....T. J. Mullaney  
Chief Engineer.....L. Wanner  
Purchasing Agent.....J. Gould

**PRODUCTS:** Binding posts and terminals, cable connectors and couplings, custom moldings, electric eyes, headphones, knobs, metal stampings, lugs, microphones, photoelectric relays, photocells, phototubes, plugs, screw-machine parts, speaker connectors, terminal plugs, terminal strips and hlocks, tube shields (miniature), tube sockets, electrical assemblies of all types for radar, telephones, headsets, microphones; jacks.

### **Eckstein Radio and Television Co.**

914-18 LaSalle Ave., Minneapolis 2, Minn.  
Phone: Main 8359

Secretary-Treasurer.....E. R. Bostrom  
Chief Engineer.....Frederick Lewis  
Production Manager.....D. F. Boulett  
Purchasing Agent.....E. A. Eckstein  
Export Manager.....Harry Scheel  
Sales Manager.....E. R. Bostrom  
Manager—Metal Shop.....L. D. Eldridge

**BRANCH OFFICE:** 4237 N. Lincoln Ave., Chicago 18, Ill., Phone, DIVersey 3672-3, Harry J. Scheel (Export Sales).

**PRODUCTS:** Communication type car receivers (Karadio), home receivers (Ecko), private aircraft receivers, audio amplifiers..

### **Electronic Corp. of America**

170 - 53rd St., Brooklyn 32, N. Y.  
Phone: GEDney 9-5335

President .....Garrard Mountjoy  
Export Manager.....E. Rojo  
Assistant Sales Manager.....Tom Ward  
Advertising Manager.....Paul Rofield  
Credit Manager.....Roy Neusch  
Office Manager.....A. Eyer  
Chairman of the Board.....S. Novick  
Director of Purchases.....M. Bloom

**PRODUCTS:** ECA (Consumer Radios), Typatune (musical toy typewriter), Pianotune (toy piano).



**Electronic Laboratories, Inc.**

24 W. 24th St., Indianapolis, Indiana  
Phone: Talbot 2442, Riley 1551

President.....William W. Garstang  
Vice-President-Engineering.....R. H. Frye  
Vice-President-Sales.....W. E. Peek  
Vice-President-Manufacturing...H. C. May  
Secretary.....Albert M. Campbell  
Treasurer & Comptroller.....A. L. Mack  
Chief Inspector.....H. Palin  
Quality Control Head.....R. M. Loomis  
Purchasing Agent.....D. A. Wilson

BRANCH OFFICES: 222 E. 38th St., New York 16, N. Y., Phone, VA 6-3463, Lee Rocke; 13 E. 40th St., New York 16, N. Y., VA 6-3463, Arthur Rocke.

PRODUCTS: Vibrators, regulated vibrator power supplies, inverters, converters, rectifier packs, Electrical toys, railroad, marine and bus fluorescent lighting, radios, radio permeability tuners.

**Electronic Specialty Co.**

3456 Glendale Blvd., Los Angeles 26, Calif.  
Phone: No. 2-2168

General Manager.....D. A. Marcus  
Chief Engineer.....S. K. Babcock  
Purchasing Agent.....R. T. Liggitt  
Controller.....Frank C. Mann  
Factory Representative.....J. H. Holley  
Manager—Inverter Division..W. H. Burgess

PRODUCTS: Ranger aircraft radio equipment: transmitters, receivers, and interphone, the transmeter, the electronic inverter.

**Electronic Tube Corp.**

1200 E. Mermaid Ave., Phila. 18, Pa.  
Phone: Chestnut Hill 6800

Pres.-Sec.-Treas. ....Seymour Turner  
V.P.-Chief Engineer.....Henry Bemford  
Senior Engineer.....James W. Phillips  
Engineers.....D. F. Ottolini, Paul A. Keller  
Purchasing Agent.....Mary R. Scott

PRODUCTS: Multiple gun cathode ray tubes, standard cathode ray tubes, multiple channel oscilloscopes, magnetostriction oscillators, miscellaneous electronic equipment.

**Emerson Radio & Phonograph Corp.**

111 Eighth Ave., New York 11, N. Y.  
Phone: Chelsea 2-1800

President.....Benjamin Abrams  
Secretary-Treasurer.....Max Abrams  
V. P.-Engineering & Production

Dorman D. Israel  
V. P. Head of Home Prods. Div..P. G. Gillig  
V.P. Chg. Purchasing.....Harvey Tullo  
Cabinet Design.....Stephen Chew  
Personnel Manager.....Peter R. Certo  
Merchandising Counsel..Warren R. Lightfoot

Sales Pro. Mgr.....Charles O'N. Weisser  
Advertising Manager.....E. Frances Solow  
Comptroller .....Victor Stevens  
Chief Engr. Home Prod...A. George Rogers  
Chief Engr. Special Prod...Maurice Levy

BRANCH OFFICES: 666 Lake Shore Drive, Chicago, Ill., Phone, Superior 4100. E. N. Greenebaum, Jr., Manager.

PRODUCTS: Home radio receivers—AM and FM radios: table models—AC and AC-DC, compact models—AC-DC, personal models—self powered, portable models—self powered—AC-DC, console models—AC and AC-DC, record players—table models and portables, phonoradios—table models and consoles and portables, portable recorder and playback, television receivers, hearing aid radios, public address system, industrial television, components: speakers, radio vacuum tubes, phonograph needles. Electronic Equipment: radar sets, radio transmitting and receiving sets, electronic navigation equipment, electronic traffic control equipment, marine communication equipment.

**Erco Radio Laboratories Inc.**

Hempstead, Long Island  
Phone: Hempstead 6985-985

PRODUCTS: Receivers, Transmitters, Radio Airport Traffic Control Equipment, Radio Frequency Standards, Radio Communications Equipment, Radio Test Equipment. (\*resonance meters.)

AFFILIATED COMPANY: Aero Communications, Inc., Hempstead, Long Island, N. Y., Phone, Hempstead 6985-985.

PRODUCTS: Receivers, transmitters, radio airport traffic control equipment, radio frequency standards, radio communications equipment, radio test equipment, and resonance meters.

**Espey Manufacturing Co., Inc.**

528 E. 72nd St., New York 21, N. Y.  
Phone: BÜtterfield 8-2300

President-General Manager...Nathan Pinsley  
V.P.—Production .....James Valladares  
V.P.—Engineering .....Harry Zion  
V.P.—Research Eng.....Jack Rosenbaum  
Secretary .....Morris Pinsley  
Mdse, Control Div.....Gordon Poole  
Comptroller .....Max Goldberg  
Personnel Director.....Julius Treuman  
Merchandise Manager.....Michael Ross

PRODUCTS—Receiving sets, radio-phonograph combinations, FM receiving sets, record-players, television sets.

**Fada Radio & Electric Co., Inc.**

30-20 Thomson Ave., Long Island City, N. Y.  
Phone: Ironsides 6-5400

President.....J. M. Marks

Secretary-Treasurer.....D. I. Marks  
 Director of Procurement.....I. N. Marks  
 Sales Manager.....A. Wellington  
 Advertising Manager.....H. N. Lubet  
 Export Manager.....H. N. Laubet  
 Comptroller.....H. Carlish  
 Plant Manager.....J. Lewandowski

PRODUCTS: Radio receivers, radio-phonograph combinations, portable receivers, portable phonograph amplifiers, phonograph wireless record players, FM receivers and radio-phonograph combinations, television receivers.

### Fairchild Camera and Instrument Corporation

88-06 Van Wyck Blvd., Jamaica 1, N. Y.  
 Phone Jamaica 6-3800

President.....J. S. Ogsbury  
 Exec. Vice-Pres.....E. Robinson  
 Vice-President—Sales.....C. A. Harrison  
 Vice-Pres. & Secy.....C. L. Terrill  
 Vice-President.....J. A. Hewlett  
 Treasurer.....J. H. Dalton  
 Dir. Eng. & Research.....R. H. Lasche  
 Asst. Vice-Pres. & Works Manager

R. A. Draghi  
 Asst. Vice-President.....R. G. Sanders  
 Purchasing Agent.....O. Leutz  
 Dir. of Publicity.....R. H. Bailey  
 Advertising Manager.....H. K. Yulke

PRODUCTS: Sound recorders (console and portable), amplifier-equalizers, transcription turntables, dynamic pick-ups, magnetic cutterheads, radio direction finders, precision potentiometers, special motors.

### Farnsworth Television & Radio Corp.

3702 E. Pontiac St., Fort Wayne 1, Indiana  
 Phone: Anthony 5301

President.....E. A. Nicholas  
 Vice-President—Engineering

B. Ray Cummings  
 Vice-President—Sales.....E. H. Vogel  
 Vice-President-Secretary.....E. M. Martin  
 Vice-President-Treasurer.....J. P. Rogers  
 General Superintendent.....R. C. Jenkins  
 Manager—Research.....Madison Cawein  
 Chief Engineer—Electronic

Apparatus Division.....J. C. Ferguson  
 Chief Engr.—Receiver Div.....W. H. Myers  
 Dir. of Public Relations.....Paul J. Boxell  
 Mgr.—Broadcast Div.....Pierre Boucheron  
 Mgr.—Mobile Communications  
 Division.....J. A. Curtis

Sales Mgr.—Farnsworth Div.....E. H. McCarthy  
 Sales Mgr.—Capehart Div.....I. C. Hunter  
 Adv. Sales Prom. Mgr.....J. S. Garceau  
 Special Prod. Sales Div. Mgr.....E. S. Needler  
 Export Dept. Mgr.....Frank Harris  
 Purchasing Agent.....R. L. Colfax

BRANCH OFFICES: 3301 S. Adams St., Marion, Ind., Phone, 4600, J. P. Rogers; Lucretia Ave., Huntington, Ind., Phone, 1331, R. C. Jenkins; 805 W. Walnut St., Bluffton, Ind., Phone, 911, R. C. Jenkins.

PRODUCTS: AM radios and phonograph-radios, AM/FM radios and phonograph-radios, Capehart and Panamuse by Capehart AM/FM phonograph-radios; automobile radios, television receivers, television transmitting equipment, television studio equipment, television-telemetering equipment, FM transmitters, railroad radio communications equipment, taxicab radio communications equipment, mobile communications equipment, automatic record changers, television tubes, television antennas.

### Federal Recorder Co., Inc.

630 S. Wabash Ave., Chicago, Ill.  
 Phone Har. 8330

General Manager.....Ralph Rubenstein  
 Engineer.....Earl Kent

BRANCH OFFICES: 251 Fourth Ave., Gramercy 5-0711, New York, N. Y.; 150 Marietta St., N. W., Atlanta, Ga.; 569 Mission St., San Francisco, Calif. PRODUCTS: 12 and 16" Recording Discs, Cutter Heads, Recording Amplifiers, Home Recorders, Cutting and Playback Needles, Steel, Glass and Paper Base Recording Blanks.

### Federal Telephone and Radio Corp.

200 Mt. Pleasant Ave., Newark 4, N. J.  
 Phone: Humboldt 2-8000

President.....Sosthenes Behn  
 Vice-President.....Theodore M. Douglas  
 Vice-President.....Edward N. Wendell  
 Exec. Sales Dir.....Norman E. Wunderlich  
 Chief Engineer.....Francis X. Rettenmeyer

BRANCH OFFICES: 343 N. Michigan Ave., Chicago 11, Ill., Phone, Central 6900, Harold KaDell; 8 DuPont Circle, Washington, D. C., Phone, Michigan 0622, E. J. Girard.

PRODUCTS: Complete broadcast systems—AM, FM, TV; FM square-loop antenna; AM-FM transmitting and rectifying tubes; coaxial cable; FM and lead-in wire; selenium rectifiers; home radio receivers.

### Ferranti Electric, Inc.

30 Rockefeller Plaza, New York, N. Y.  
 Phone: Circle 7-0912

Vice-President.....W. R. Spittal  
 PRODUCTS: Audio and power, transformers, chokes, filters, wiring and assembly, sheet metal, and bakelite fabrication.

### Finch Telecommunications, Inc.

4th & Virginia Sts., Passaic, N. J.  
 Phone: Passaic 2-3440

President.....W. G. H. Finch  
 Treasurer.....Harold J. Frees  
 Secretary.....Margaret C. Harkey  
 Plant Mgr.—Chief Engineer.....Richard E. Mathes  
 Sales Manager.....Herman H. Rathkamp

BRANCH OFFICE: 10 E. 40th St., New York 16, N. Y. Phone, Circle 6-8080. W. G. H. Finch, President.

PRODUCTS: Facsimile, recording paper, Finch rocket antennas.

**A. W. Franklin Mfg. Corp.**

43-20 34th St., Long Island City 1, N. Y.  
Phone: STillwell 4-1160

President.....Albert W. Franklin  
V.P.—Engineering Prod...Joseph M. Vananzi  
Vice-President—Sales.....N. H. Lawton  
Credit Manager.....Fred Weller  
Purchasing Agent.....S. Yurman  
Service Manager.....William Telmoss

BRANCH OFFICES: 635 N. Penn St., Indianapolis 4, Ind., Phone, Lincoln 5191, George R. Brand, Sales; 2216 W. 11th St., Los Angeles 6, Calif., Phone, Drexel 1263, Harry A. Lasure, Sales & Warehouse.

PRODUCTS: Sockets, plugs, switches, terminal strips, plastic and metal fabrications and assemblies, locking rings, metal stampings, plastic molded products, air-loops.

**Freed Radio Corp.**

200 Hudson St., New York 13, N. Y.  
Phone: WAlker 5-8765

President.....Max Adelberg  
Vice-President-General Mgr...Arthur Freed  
Treasurer.....Melvin Zalkin

PRODUCTS: Manufacturer of Freed-Eisemann high-fidelity radio-phonograph combinations, all incorporating frequency modulation band.

**Galvin Mfg. Corporation**

4545 Augusta Blvd., Chicago 51, Ill.  
Phone: SPAulding 6500

President.....Paul V. Galvin  
Vice-President in Charge of Production  
Frank J. O'Brien

Vice-President in Charge of Automotive Division .....Elmer H. Wavering  
Vice-President in Charge of Home Products Division.....W. H. Stellner

PRODUCTS: Motorola Home Receiving Sets, Radio Phonograph Combinations, FM Receiving Sets, Automatic Record Players, Auto Radio Receiving Sets, AM and FM 2-Way Police Radio Communication Systems, Aircraft Radio, Gasoline car heaters.

**Garod Radio Corp.**

70 Washington St., Brooklyn 1, N. Y.  
Phone: MAIn 4-6044

President.....Max W. Weintraub  
Assistant to President....Maurice Raphael  
Sales Manager.....Louis Silver  
Treasurer.....B. S. Trott  
Purchasing Agent.....Emanuel Weintraub  
Advertising Manager.....Joseph G. DeVico

PRODUCTS: Radio and television re-

ceivers, television-phonograph-radio combinations, radio-phonographs, portables, farm radios.

**General Electric  
Electronics Department**

Thompson Road, Syracuse, N. Y.  
Phone: 6-4411

President of Company.....C. E. Wilson  
Vice-Pres. in Charge of Electronics Dept.

Dr. W. R. G. Baker  
Genl. Sales Mgr.....A. A. Brandt

BRANCH OFFICES: 140 Federal St., Boston, Mass., R. L. Hanks; 570 Lexington Ave., New York 22, N. Y., H. J. Mandernach; 1405 Locust St., Philadelphia 2, Pa., T. B. Jacobs; 187 Spring St., N.W., Atlanta 3, Ga., T. B. Willard; 4966 Woodland Ave., Cleveland 4, Ohio, R. P. VanZile; 840 So. Canal St., Chicago 80, Ill., G. S. Peterson, 106 W. 14th St., Kansas City 6, Mo., R. J. Meigs; 1801 N. Lamar St., Dallas 2, Texas, W. M. Skillman; 235 Montgomery St., San Francisco 4, Calif., W. M. Boland.

PRODUCTS: Receivers, Transmitters, Tubes, Components.

**General Electronics Inc.**

1819 Broadway, Room 1410  
New York 23, N. Y.  
Phone: Circle 7-8093

Vice-President-Treasurer...D. E. Replogle  
Sales Manager.....T. A. Haish

PRODUCTS: Electron power and transmitting tubes, fluorescent starters.

**The General Industries Co.**

Olive & Taylor Sts., Elyria, Ohio  
Phone: 2235

President.....A. W. Fritzsche  
Treasurer.....C. F. Russert  
Vice-Pres., Factory Mgr.-Plastics Div.

O. W. Marsh  
Vice-Pres., Factory Mgr.-Mech. Div.

W. A. Schmittgen  
Vice-Pres., Sales Mgr. of Mechanical Div.

H. E. Moon  
Vice-Pres., Sales Mgr. of Plastics Div.

Steve Hiltibrant

PRODUCTS: Molded plastics — electric spring phonograph motors, record changers; recorders — combination record changer; heater and defroster motors.

**General Instrument Corp.**

Subsidiaries:

General Instrument & Appliance Corp.  
General Electronic Apparatus Corp.

829 Newark Ave., Elizabeth 3, N. J.  
Phone: Elizabeth 3-4400

Chairman of the Board.....Samuel Cohen  
 President-Treasurer.....A. Blumenkrantz  
 Executive Vice-President...Richard E. Laux  
 Vice-President—Sales.....Don J. Phelps  
 Sales Manager.....George P. Marron  
 Speaker Division.....Leon Golder  
 Chief Engineer.....Berne N. Fisher

PRODUCTS: Variable condensers, push button devices, record changers, loud speakers.

**General Laminated Products, Inc.**

2857 South Halsted Street, Chicago 8, Ill.  
 Phone: Victory 0707

President .....Morris Perlman  
 Gen. Manager.....Edward Metzger  
 Chief Engineer.....Lester Lindgren  
 Credit Manager.....Vera Ludwig  
 Purchasing Agent.....Ernest Neustadter  
 Sales.....L. Tenenberg, Vera Chrest

PRODUCTS: Coil Forms, Terminal Strips, Radio Backs, Baffle Boards, Loop Forms, Sockets, Battery & Wafer, etc., Special Assemblies, Fabricators of Laminated Phenolic Materials and other products.

**General Radio Co.**

275 Massachusetts Ave., Cambridge 39, Mass.  
 Phone: TRowbridge 4400

Chairman of Board.....H. B. Richmond  
 President.....E. H. Locke  
 Vice-Pres. for Sales.....A. E. Thiessen  
 Vice-Pres. for Production.....C. C. Carey  
 Secretary-Treasurer.....F. L. Tucker  
 Asst. Secretary-Treasurer....C. E. Hills, Jr.  
 Chief Engineer.....M. Eastham

BRANCH OFFICES: Rm. 815, 90 West St., New York 6, N. Y., Phone, WOrth 2-5837, I. G. Easton; 950 N. Highland Ave., Los Angeles 38, Calif., Phone, Hollywood 6201, Fred Ireland; 920 S. Michigan Ave., Chicago 5, Ill., Phone, Wabash 3820, Kiplin Adams.

PRODUCTS: Precision radio and electronic laboratory and testing instruments.

**The Fred Goat Co., Inc.**

314 Dean Street, Brooklyn 17, N. Y.  
 Phone: TRiangle 5-0940

President.....Walter Goat  
 Vice-President & Gen. Mgr....J. R. Ellison  
 V. P. & Sales Mgr.....E. M. Haines  
 Secretary.....H. D. Smith

PRODUCTS: Tube shields—small intricate drawn, formed and stamped parts, manufactured to very close tolerances from the difficult working metals and alloys.

**The Hallicrafters Co.**

4401 W. 5th Ave., Chicago 24, Ill.  
 Phone: Van Buren 6300

President.....W. J. Halligan  
 Exec. Vice-President.....R. W. Durst  
 Vice-President—Engineering R. E. Samuelson  
 Secretary-Treasurer.....J. J. Frendreis

Sales Manager.....R. J. Sherwood  
 Asst. Sec.-Purch. Agent.....E. J. Corcoran  
 Assistant Treasurer.....M. P. Heinz  
 Vice-President.....L. L. Kelsey  
 Works Manager.....G. H. Hartley

PRODUCTS: Short-wave radio communication receivers and transmitters, marine radio-telephones; home set receivers.

**Hamilton Radio Corp.**

510 Sixth Ave., New York 11, N. Y.  
 Phone: GRamercy 7-5210

President.....A. A. Juviler  
 Vice-President.....P. L. Schoenen  
 Asst. Treasurer.....M. Sobin  
 Director of Sales.....J. F. Crossin  
 Chief Engineer.....J. Ravdin  
 Purchasing Engineer.....M. Z. Landau  
 Office Manager.....L. Haber

PRODUCTS: Complete line of home receivers. AM and FM television receivers.

**The Hammarlund Mfg. Co., Inc.**

460 West 34th St., New York 1, N. Y.  
 Phone LOngacre 5-1300

President.....Lloyd A. Hammarlund  
 V-P & Treasurer.....Joseph Lush  
 V-P .....H. B. Macartney  
 Secretary-Comptroller.....E. A. Wittmer  
 Advertising Mgr.....G. W. Shuart

PRODUCTS: Manufacturers of precision communications equipment.

**Frederick Hart & Co., Inc.**

(Formerly Amertype Recordgraph Corp.)  
 350 Madison Ave., New York 17, N. Y.  
 Phone: Vanderbilt 6-3236

Vice-President.....Albert D. Stern

PRODUCTS: Sound recording-reproducing instruments for radio stations, 2-way telephone conversations where authorized, radio interception and monitoring, film recorder-reproducers, magnetic recorder-reproducers.

**Hartenstine Zane Co., Inc.**

225 Broadway, New York 7, N. Y.  
 Phone: BA 7-8390-1

Secretary-Gen.-Mgr.....Chas. J. Hartenstine

BRANCH OFFICE: 571 Springdale Ave., East Orange, N. J. Phone, Orange 4-6054. M. A. Hartenstine, Asst. Secretary. PRODUCTS: Antennae Installation including all field work for foundations, erection, painting, lighting, and servicing radio towers. Installing ground systems and coaxial cable.

**Harvey Radio Laboratories, Inc.**

447 Concord Avenue, Cambridge 38, Mass.  
 Phone: Trowbridge 2800

President.....Frank Lyman, Jr.  
 Asst. to Pres.....David T. Ferrier  
 Clerk of Corp.....Ronald W. Martin  
 Chief Engineer.....Bernard J. Cosman

• • • **EQUIPMENT MANUFACTURERS** • • •

Purchasing Agent.....Frank Waterhouse  
Comptroller.....Gordon Genthner  
**PRODUCTS:** FM Broadcast Transmitters,  
Marine Radio Equipment, Police Radio  
Equipment, Regulated Power Supplies, Elec-  
tronic Equipment, Communications Equip-  
ment.

**Haydu Brothers**

P. O. Box 1226, Plainfield, New Jersey  
Phone: Plainfield 6-0878  
Partner-Sales Manager... George K. Haydu  
Chief Engineer.....Zoltan Haydu  
Purchasing Agent.....E. Sichel

**PRODUCTS:** Precision stampings and  
wire forms for radio, radar and television  
tubes; burner equipment for glass forming  
machinery.

**Hazeltine Corporation**

1775 Broadway, New York 19, N. Y.  
Phone: COlumbus 5-0793

Chairman.....Edgar Rickard  
President.....Jack Binns  
Vice-Pres.-Chief Eng.....W. A. McDonald  
Asst. Treas.....Herbert F. Clough

**PRODUCTS:** Patents and engineering ser-  
vice to manufacturers.

**Hewlett-Packard Co.**

395 Page Mill Road, Palo Alto, Calif.  
Phone: Palo Alto 2-4651

Partner.....David Packard  
Partner.....William R. Hewlett  
General Manager.....Glenn Zieber  
Chief Development Engineer...Bruton Bauer  
**PRODUCTS:** Laboratory instruments.

**Hoffman Radio Corp.**

3761 S. Hill St., Los Angeles 7, Calif.  
Phone: Prospect 3446

Sales Manager.....R. J. McNeely  
Director of Engineering.....M. J. Manahan  
Chief Engineers...A. E. Bennett, Stanley Cutler  
Export Agents.....Exportadora, Inc.,  
Los Angeles, Calif.

Manager, Special  
Electronics Division.....Elmer P. Gertsch  
Comptroller.....C. E. Underwood  
Treasurer.....R. A. Yarcho  
Purch. Agent.....P. L. Fleming  
Sales Prom. Mgr.....Daniel E. Anderson  
Service Manager.....F. J. Bauer  
Vice-President.....Walter D. Douglas  
Asst. Sales Mgr.....D. D. Spence

**BRANCH OFFICE:** Merchandise Mart,  
1355 Market St., San Francisco, Calif., Walter  
J. Epstein.

**PRODUCTS:** Radios, table models, con-  
soles, combinations, combinations with re-  
corders.

**Howard Radio Co.**

1731-35 Belmont Ave., Chicago 13, Ill.  
Phone: Diversey 2000

President.....Joseph F. Riley  
Vice-President.....J. M. Muniz  
Vice-President.....Howard C. Briggs  
Chief Engineer.....W. James  
**PRODUCTS:** AM-FM radios and phono-  
graph combinations, television receivers and  
other electronic products.

**Hytron Radio & Electronics Corp.**

76 Lafayette St., Salem, Mass.  
Phone: Salem 2260

President.....Bruce A. Coffin  
Chairman of Board-Treas....Lloyd H. Coffin  
Sales Manager.....John Q. Adams  
Chief Engineer.....C. F. Stromeyer  
Credit Manager.....M. S. Jones  
Advertising Manager.....Harry G. Burnett

**PRODUCTS:** The following vacuum tubes:  
receiving, ballast, very-high-frequency triodes  
and pentodes, miniatures, medium and low-  
power transmitting triodes, R. F. beam te-  
todes (particularly instant-heating), R. F.  
pentodes, gaseous voltage regulators, and  
rectifiers.

**Ideal Fluorescent Products Co.**

150 Summit St., Newark, N. J.  
Phone: Mi 2-6466

Manager.....Herman K. Kuthe  
**PRODUCTS:** "Ideal" fluorescent starter  
switches, and electronic tubes.

**The Indiana Steel Products Co.**

6 N. Michigan Ave., Chicago, Ill.  
Phone: FRAnklin 1114

President & Treas....A. D. Plamondon, Jr.  
Vice-Pres. & Genl. Mgr....Joseph F. Drennan  
Secretary.....Albert Kahn  
Asst. Secretary.....M. J. Drew  
**PRODUCTS:** Permanent magnets, radar  
magnet assemblies, alloy castings. 149 Devon-  
shire Court, Rochester, N. Y., Gerald Troy.

**Industrial & Commercial Electronics**

601 O'Neill Ave., Belmont, Calif.  
Phone: Belmont 664

President.....Ralph C. Shermund  
Vice-President.....Charles V. Litton  
Chief Engineer.....D. Gordon Clifford  
Credit Manager.....G. C. Stuparich  
Purchasing Agent.....M. M. Fisch  
**PRODUCTS:** Industrial transmitting tubes,  
vacuum condensers, vacuum relays.

**Insuline Corp. of America**

3602-10 35th Ave., Long Island City 1, N. Y.  
Phone AStoria 8-3738

.....S. J. Spector

Sales Manager.....Bernard L. Cahn  
Vice-President.....M. Sherover  
Treasurer.....A. S. Spector  
Chief Engineer.....John Donato

PRODUCTS: Radio Receiving-Transmitting Parts and Accessories, Stamping Metal Goods, Radio Chassis, Metal Cabinets, Plugs, Jacks, Sockets, Screw Machine Parts, Test Tools, Test Leads, Auto Antennas, Auto Radio Noise Suppressors.

### International Detrola Corporation

Beard Avenue at Chatfield, Detroit 9, Mich.  
Phone: Vinewood 1-8100

V.P. in Chg. Sales.....G. A. Bodem  
Sales Mgr. Home Radios...Harley R. Wall  
Advertising Manager.....G. E. Rakovan  
Dir. of Purchases.....J. E. Ruder  
Dir. of Engineering.....R. M. Daugherty  
Works Manager.....W. S. Wright  
Service Manager.....K. L. Granger

PRODUCTS: Receivers: Electric—Compact, table, portable, console; Battery—Automobile, portable, portable AC-DC, table, console; Combinations—Radio-Phonograph, radio—phonograph—recorder; Frequency Modulation—Table, console, FM-AM table, FM-AM console; record players and automatic record changers.

### International Detrola Corporation Utah Radio Products Division

Beard Avenue at Chatfield  
Detroit 9, Mich.

Phone: Vinewood 1-8100

V.P. Chg. Sales & Eng'g...W. Austin Ellmore  
Sales Mgr. Wholesale & Sound....J. Prince  
Sales Engineers....Ed O'Flara, A. M. Stump

PRODUCTS: For radio set manufacturer—Speakers; For jobber replacements—Loud speakers, transformers, chokes, vibrators, wire wound resistors, volume controls, jacks, jack switches, button switches, plugs.

### International Detrola Corporation Saswell-Runyan Division Huntington, Indiana

General Manager.....Adolph H. Schenkel  
Asst. Secty., Asst. Treas.

& Credit Manager.....R. P. Schmelzer

PRODUCTS: Radio cabinets.

### International Resistance Co.

407 N. Broad St., Phila. 8, Pa.  
Phone: Walnut 2-2166

President.....Ernest Searing  
Vice-Pres., Sales.....Harry Ehle  
Vice-Pres., Chief Eng.....Jesse Marsten  
Manager, Radio Division.....C. H. Griffith

BRANCH OFFICE: 165 Broadway, Room 1438, New York, N. Y., Phone, Cortland 7-5020, Manager, A. H. Harddick.

PRODUCTS: Fixed and variable resistors

### Isolantite Inc.

343 Cortland St., Belleville 9, N. J.  
Phone: Belleville 2-4600

President.....K. D. Hamilton  
Vice-President.....P. H. Mouraud  
Secty.-Treas. ....A. Heard  
Sales Manager.....L. C. Sanford

PRODUCTS: Steatite, heat shock refractories, high frequency radio insulators, coaxial transmission line and accessory equipment, special antenna equipment and radar assemblies.

### J. F. D. Manufacturing Co.

4109-4123 Fort Hamilton Parkway,  
Brooklyn 19, N. Y.

Phone: Windsor 3-3100

President.....Julius Finkel  
Vice-President.....Albert Finkel  
Sales Manager.....Edward Finkel

PRODUCTS "Sockette" radio tube adapters, exact duplicate ballast tubes, phosphor bronze dial cable, battery adapter harnesses, adjustable ballast tubes, resistance cord adapters, phono adapter switches, microphone connectors, midget jacks & plugs, phonograph needles, resistance cords, AC service cords, toggle switches, auto condensers, speaker cement, antenna loops, auto antennas, battery plugs, tube shields, radio wire, suppressors, dial belts, dial cord, dial pointers, test lead wire, remote-o-cable-replacer, flashlite cable, casing, auto radios, fittings.

### The Jackson Electrical Instrument Co.

16-18 S. Patterson Blvd., Dayton 1, O.  
Phone: Hemlock 4076

President-Sales Manager...Paul F. Jackson  
Chief Engineer.....George M. Buchard

PRODUCTS: Test equipment.

### Jefferson Electric Co.

25th Ave. & Madison St., Bellwood, Ill.  
Phone: MANsfield 7161

President.....J. C. Daley  
Exec. Vice-Pres.....Alfred E. Tregenza  
Vice-Pres. & Secy.....J. M. Bennan  
Vice-President.....R. A. Hoagland  
V.-P., Engineer.....L. Maurer  
Executive Engineer.....R. J. Horstman  
Credit Manager.....Victor E. Lee  
Export Manager.....M. J. Schmitt  
Director of Purchases...Edward J. Banigan

PRODUCTS: Power transformers, chokes and audio input and output transformers, television deflecting yokes, horizontal and vertical scanning transformers, centering and focusing coils.

### Jensen Radio Manufacturing Co.

6601 S. Laramie Ave., Chicago 38, Ill.  
Phone: Portsmouth 7600

EQUIPMENT MANUFACTURERS

President.....Thomas A. White
Vice-President.....Hugh S. Knowles
Purchasing Agent.....George H. Turner
Secretary.....A. L. Oliver
Advertising Manager.....Bayard H. Clark
Chief Engineer.....Hugh S. Knowles
BRANCH OFFICE: Box 825, Oakland, Calif. Phil Bechamber, rep.
PRODUCTS: Loudspeakers, reproducers.

Johns-Manville Corp.

22 East 40th St., New York 16, N. Y.
Phone LExington 2-7600

PRODUCTS: Sound-control materials for broadcasting studios.

Kellogg Switchboard & Supply Co.

6650 S. Cicero Ave., Chicago, Ill.
Phone: Portsmouth 6900

President.....J. G. Kellogg
Executive Asst. to President...C. D. Manning
Secretary.....J. H. Kellogg
Treasurer.....H. C. McCluskey

PRODUCTS: Oil and wax condensers, communications equipment, microphones, earphones, noise filters, volume controls, retractable electrical cords (Koilod Kords).

Ken-Rad Tube & Lamp Corp., Inc.

Owensboro, Ky.
Phone: Owensboro 2000

President.....Roy Burlew
Sales Manager.....R. W. Metzner
PRODUCTS: Receiving, transmitting, cathode ray and special purpose tubes.

Kenyon Transformer Co., Inc.

840 Barry St., New York 59, N. Y.
Phone DAYton 9-0100

President.....Franklin P. Kenyon
Vice-President & Chief Engineer

Richard B. Shimer

PRODUCTS: Transformers, Reactors, Filters.

Kerrigan Lewis, Mfg. Co.

4421 W. Rice St., Chicago 51, Ill.
Phone: Spaulding 7208

Partner.....Vincent M. Kerrigan
Partner.....Charles F. Lewis

PRODUCTS: Magnet and Litzendraht Wire.

King Laboratories, Inc.

127 Solar St., Syracuse 4, N. Y.
Phone: 2-5209

President.....Aden J. King
Vice-President.....F. M. Michaelian
General Manager.....W. R. MacLeod

Secy. & Treas.....George L. King
PRODUCTS: Special alloys, chemicals and metals, radio tube parts, metal punchings and stampings, barex getters.

Kludge Electronics Co.

2125 1/4 Sunset Blvd., Los Angeles 26, Calif.
Phone: Exposition 1742, Fitzroy 7430

President.....Myron E. Kludge
Vice-President.....Edward C. Bickhart
Chief Engineer.....Paul D. Langrick
Sales Manager.....J. R. Muratta

BRANCH OFFICE: Main Factory: 137 W. Commercial, Pamona, Calif., Myron E. Kludge.

PRODUCTS: Transmitters, tubes, frequency & modulation monitors, magnetic recording & reproducing equipment.

Kuthe Laboratories, Inc.

150 Summit St., Newark 4, N. J.
Phone: MITchell 2-6466

President.....Herman K. Kuthe
Vice-President.....Bernard Hellring
Treasurer.....Hedwig Kuthe

PRODUCTS: Electronic transmitting tubes, rectifiers, voltage regulators, indicators, fluorescent starter switches, specialty-gas filled tubes.

The Langevin Co., Inc.

36 W. 65th St., New York 23, N. Y.
Phone: Endicott 2-7200

President.....Carl C. Langevin
V.P.—Sales.....H. B. Miller
V.P.—Manufacturing.....P. F. Kavanagh
V.P.—Field Engineering.....W. J. Jurek
V.P.—Development.....W. J. Dallin

BRANCH OFFICES: 1050 Howard St., San Francisco 3, Calif., H. A. Wollenberg, Vice-President. 1000 N. Seward St., Los Angeles 38, Calif., W. T. Brown, Vice-President.

PRODUCTS: Speech input equipment and audio amplifying facilities, rectifiers, transformers.

Lapp Insulator Co., Inc.

Le Roy, N. Y.
Phone Le Roy 385

President.....J. S. Lapp
Vice-President.....W. F. Young
Chief Engineer.....Ralph L. Jenner

PRODUCTS: Tower footing and guy insulators; standoff, entrance and antenna insulators; radio frequency high voltage condensers.

Lear, Inc.

110 Ionia Ave., N. W., Grand Rapids 2, Mich.
Phone: 6-9651

President.....William P. Lear

**Vice-President in**

Chg. Radio.....Elmer R. Crane  
V.P. Chg. Electro-Mechanical...R. M. Mock  
Mdse. Manager—Home Radio Div.Nate Hast  
Sales Manager—Aircraft Radio Div.

Hal T. Sagert  
Manager—Wire Recording Div.

Andy W. Korb  
Advertising Co-Ordinator.....H. J. Silbar

**PRODUCTS:** Radio Division (aircraft & home): automatic aircraft antenna reels, shielded antennae, gyro & directional compasses, control tower equipment, automatic direction finders. Receivers: aircraft, home, beacon, grid marker, portable, phonograph combinations, receiver-transmitters, wire recording combination, ultra high frequency, very high frequency, wire record. Transmitters: aircraft, portable, ultra high frequency, very high frequency. Wire recorders for office, commercial and home use. Trade name, "Learadio."

**Lehigh Structural Steel Co.**

17 Battery Place, New York, N. Y.  
Phone Whitehall 4-1424

Contact.....J. F. Neary  
**BRANCH OFFICES:** In all principal cities.  
**PRODUCTS:** Vertical Radiators, Antenna Towers and Masts. Supporting Towers for FM and Television.

**Lektra Laboratories, Inc.**

30 E. 10th St., New York 3, N. Y.  
Phone: Algonquin 4-0230

President.....Milton W. Blatner  
Vice-President.....Ben Eisenberg  
Purchasing Agent.....A. Severin  
**PRODUCTS:** Electronic Photo Timers, Electronic Industrial Timers, Electro Shock Therapy equipment, Galvanic Generators, Faradic Generators, Sinusoidal Generators, Electrolysis Equipment.

**Lewyt Corp.**

60 Broadway, Brooklyn 11, N. Y.  
Phone: Evergreen 8-9600

President.....Atex M. Lewyt  
Works Manager.....Arnold Wolf  
Sales Mgr.—Contract Div...Jerome L. Strauss  
**PRODUCTS:** (Manufactured by Radio-Electronic-Television Consumer Division): Radios, table and portable models; radio-phonograph combinations, consoles, FM, AM, television, record players. (Manufactured by Contract Division): Radios and electronic equipment to customer's specifications.

**Libbey Glass**

**Division of Owen-Illinois Glass Co.**  
Ohio Bldg., Toledo 1, Ohio  
Phone: Main 7131

President.....J. Preston Levis

**V.P. Gen'l Mgr.,**

Libbey Glass.....John H. Wright  
Mgr., Industrial  
Glassware Sales.....R. W. Rogers  
Adv. & Mdse. Mgr.....C. U. Fauster

**BRANCH OFFICES:** 405 Lexington Ave., New York, N. Y., C. J. Zihlman; 1582 Merchandise Mart, Chicago, Ill., F. W. Levis.

**PRODUCTS:** Component glass parts for radio and television tubes.

**John E. Lingo and Son, Inc.**

2814 Buren Ave., Camden, N. J.  
Phone Camden 0487

President.....J. E. Lingo  
Asst. to President.....Joseph J. Taylor  
Chief Engineer.....Wesley Thompson  
Production Superintendent..George Burrows

**PRODUCTS:** Vertical Radiators; Guyed Tubular Steel and Portable Dural; Turnstile and UHF Antennae, Tubular Steel Supporting Poles (for UHF Antennae).

**Machlett Laboratories, Inc.**

Power Tube Division: 25 Grand St.  
Norwalk, Conn.  
Phone: Norwalk 6-5581  
X-Ray Division: 1063 Hope Street  
Springdale, Conn.  
Phone: Stamford 4-5781

President.....R. R. Machlett  
Vice-President  
in Chg. Sales.....W. E. Stevenson  
Treasurer.....J. A. Lambert  
General Sales Manager.....H. J. Hoffman

**PRODUCTS:** High power Radio transmitting tubes, high vacuum & Mercury vapor rectifiers, V.H.F. transmitting tubes for relay application, hydrogen thyratrons, magnetrons, water and forced air-cooled tubes for industrial R.F. heating, electron tubes for diatherm.

**The Magnavox Company**

2131 Bueter Rd., Fort Wane 4, Indiana  
Phone: A-5474

President.....Richard A. O'Connor  
Executive Vice-President...Frank Freimann  
Factory Manager.....L. E. Quinnell  
Chief Electrical Engineer, Radio-Phonograph Division...R. H. Dreisbach  
Sales Manager—Components Div.

Stanley S. Sondles  
**PRODUCTS:** Receivers: Combinations radio-phonograph, radio-phonograph modulation-table, console, FM-AM console, television-console, speakers, capacitors, solenoids, sound slide film equipment.

**Majestic Radio & Television Corp.**

Elgin, Ill.  
Phones:  
(Chicago Exchange) EST. 6900  
(Elgin Exchange) 8300

President.....Tracey



# EQUIPMENT MANUFACTURERS

V.P.-Dir. of Sales.....Parker H. Eriksen  
V.P.-Exec. Engr.....E. B. Passow  
VP.-Prod. Mgr.....John Stevens

PRODUCTS: Home receivers; table model radios; table model radio-phonographs; radio-phonograph consoles, AM and FM.

## Measurements Corp.

116 Monroe St., Boonton, N. J.  
Phone: Boonton 8-2131

President.....H. W. Houck  
Chief Engineer.....Jerry B. Minter  
Chief Research Engineer...John van Beuren

PRODUCTS: Model 58 radio noise & field strength meter, model 62 vacuum tube voltmeter, models 65B, 78 78FM, 80, 84 UHF signal generators, model 71 square wave meter, model 79B pulse generator, megacycle meters, megohm meters, moisture meters, FM & Television test equipment, models M-234, M-235 R. F. attenuators; phase sequence indicators; peak voltmeters; inductance bridges; capacitance bridges.

## John Meck Industries, Inc.

Liberty at Pennsylvania Sts., Plymouth, Ind  
Phone: Plymouth 33

President.....John S. Meck  
Secty. & Controller.....Russell G. Eggo

BRANCH OFFICE: 35 E. Wacker Dr., Chicago, Ill., Phone, And. 3550, B. L. Bethel, Dir. of Purchases.

PRODUCTS: Radios, radio-phonograph combinations, phonographs, transmitters, amplifiers, public address systems and other miscellaneous electronic products.

## Meissner Mfg. Division Maguire Industries, Inc.

Mt. Carmel, Illinois  
Phone: 733

Vice-President.....James T. Watson  
Sales Manager.....Oden F. Jester  
Director of Purchases...William F. Covert  
Works Manager.....Fred Lester  
Chief Engineer.....E. J. Stanmyre  
Jobbing Sales Manager.....R. M. Karet  
Asst. Secretary.....Madge A. Hubbard  
Division Accountant.....G. W. Osbeck  
Service Manager.....W. M. Atkins

PRODUCTS: AM & FM radio receivers, radio-phonograph combinations, radio amateur equipment, radio coils for replacement, radio coils for equipment, radio servicemen's test equipment.

## Miles Reproducer Co., Inc.

812 Broadway, New York, N. Y.  
Phone GRamercy 5-9466

President.....Dr. R. Byrne

Secretary—Ch. Eng.....J. M. Kuhlik, Sc.D.  
Treasurer.....H. B. Kuhlik  
Advertising Mgr.....A. Altomari  
Vice-President.....G. Ruskin  
Public Relations.....B. Burns  
Electronics Head.....P. Katzoff, E.E.

PRODUCTS: Sound-On Film Recorders, Sound-On Film Reproducers, Telephone Recording Machines, Dictating Recording Machines, Dictating Transcribers, Throat Microphones, Sound Protection Equipment, Continuous Recorders and Transcribers for every occasion, "Talkie" Recorders for 8-16 mm. Motion Pictures.

## Mirror Record Corp.

1133 Broadway, New York 10, N. Y.  
Phone CH 3-2222

Pres. & Treas.....Paul K. Trautwein  
PRODUCTS: Recording accessories (discs, cutting needles, playback needles).

## The Muter Co.

1255 S. Michigan Ave., Chicago 5, Ill.  
Phone: Wabash 8800

President-Treasurer.....Leslie F. Muter  
V.P.-Credit Manager.....A. A. Dailey  
Sales Mgr.-Vice-President....Paul J. Pfohl  
Chief Engineer.....K. E. Rollefson  
Purchasing Agent.....A. R. Campbell

PRODUCTS: Resistors, switches, ceramic condensers, ballasts, coils, spira shields, antenna loops, I. F. and R. F. transformers.

## National Carbon Co., Inc.

30 East 42nd St., New York 17, N. Y.  
Phone: MUrray Hill 2-6800

President.....A. V. Wilker  
Vice-Pres. & Gen. Mgr.....J. M. Spangler  
Vice-Presidents.....C. O. Kleinsmith,  
H. M. Warren

General Sales Mgr.....R. P. Bergan  
Mgr. Battery Eng. Dept.....W. H. Fritz

PRODUCTS: "Eveready" "Mini-Max" "B" batteries for portable and farm type receivers, "Eveready" dry cells, "Eveready" flashlight batteries for miniature receivers, "Eveready" "Air Cell" batteries for 2-volt and 1.4 volt receivers.

## National Union Radio Corp.

57 State St., Newark 2, N. J.  
Phone: HUmboldt 2-5050

President.....S. W. Muldowny  
Controller.....E. O. Sandstrom  
Dir. of Labor Relations.....A. C. Beeson  
Dir. of Distributor Sales.....J. J. Clune  
Production Manager.....F. A. Turnquist  
Credit Manager.....H. A. Pope  
Advertising Manager.....E. J. Maginot

PRODUCTS: Receiving Tubes, Cathode Ray Tubes, Television Tubes, Transmitting Tubes, Ballast Tubes, Phototubes, Condensers, Dry Batteries, Volume Controls, Radio Sets, Vibrators, Panel Lamps.

### Oxford Radio Corp.

3911 S. Michigan Ave., Chicago, Ill.  
Phone: ATLantic 6161

President.....John A. Proctor  
V.P. & General Manager....Robert Adams  
Secretary-Treasurer.....David E. Davis  
V.P.-Sales Manager.....Robert Adams  
Service Manager.....J. H. Wood  
Chief Engineer.....Harold Sappenfield  
Chief Inspector.....Stanley O'Gorek  
Production Manager.....A. A. Polak

PRODUCTS: Radio speakers, output and line transformers.

### Packard-Bell Co.

3443 Wilshire Blvd., Los Angeles 5, Calif.  
Phone: Fairfax 2414

President.....Herbert A. Bell  
Ex. V.P. & Gen. Mgr....H. D. Thomas, Jr.  
V.P. & Director of Sales.....J. M. Spain  
V.P. & Asst. Gen. Mgr.....Lowell Wood  
Sales Manager.....F. E. Ware  
Advertising Manager.....C. C. Alsop  
Purchasing Agent.....A. T. Baxter  
Production Manager.....C. Davies  
Personnel Director.....A. S. White  
Comptroller.....L. R. Day

PRODUCTS: Radios, phonographs, home recording instruments, FM and Television equipment.

### Philco Corp.

Tioga & C Sts., Philadelphia 34, Pa.  
Phone: NEBraska 4-5100

Chairman of the Board.....Larry E. Gubb  
Chairman of Exec. Comm..James T. Buckley  
President.....John Ballantyne  
V.P., Charge of Operations..Wm. Balderston  
V.P., Charge of Industrial Relations...Harold W. Butler  
V.P., Charge of Merchandising.....James H. Carmine  
V.P., Charge of Radio Production.....Joseph H. Gillies  
V.P., Charge of Home Radio Division....Larry F. Hardy  
Vice-President.....Russell L. Heberling  
V.P., Charge of Storage Battery Division..M. W. Heinritz  
V.P., Charge of Service Division.....Robert F. Herr  
V.P., Charge of Sales...Thomas A. Kennally  
V.P., Charge of Engineering..David B. Smith  
Treasurer.....William R. Wilson  
Secretary.....Charles F. Steinruck, Jr.  
Comptroller.....William B. Yoder  
Chief Radio Engr.....Palmer M. Craig  
Chief Television Engr.....F. J. Bingley  
General Purchasing Agent....R. A. Boyce

PRODUCTS: Radio receivers, auto radios, radio-phonographs, Television receivers, refrigerators, freezers, air conditioners, storage batteries, dry batteries, radio tubes, replacement parts, export products, electronic equipment, mobile radio-telephones. For the Government: Advanced research in radar and electronics; airborne radar equipment.

### Philharmonic Radio Corp.

528 E. 72nd St., New York 21, N. Y.  
Phone: Butterfield 8-2300

President-Treasurer.....Z. Soucek  
Vice-President—Engineering...V. Brociner  
Asst. Secretary-Treasurer.....L. Ertle  
Plant Manager.....P. Cassata  
Personnel Manager.....I. Juliber  
Chairman of Board.....Thomas R. Jones

PRODUCTS: FM-AM radio-phonographs, FM-AM receiving sets, television sets, airborne radar equipment, radio transmitters, test equipment, synchroscopes, square-wave generators, underwater sound equipment, two-band high sensitivity portable receivers, cathode ray equipment, monitor and control equipment.

### Philmore Mfg. Co.

113 University Pl., New York 3, N. Y.  
Phone: ALgonquin 4-3363

Manager.....Philip Schwartz  
Chief Engineer.....Reginald Burke  
Credit Manager.....C. Levine  
Export Manager.....M. L. Granat  
Purchasing Agent.....Murray Granat

PRODUCTS: Amateur sets, crystal sets, microphones (carbon type), detectors, plugs, 1, 2 and 3-tube receivers, headphones, signal keys, short wave and broadcast plug-in coils, aerial kits, speaker microphones.

### Pilot Radio Corp.

37-06 36th St., Long Island City 1, N. Y.  
Phone: Stillwell 4-5455

President.....Isidor Goldberg  
Executive Vice-President.....E. L. Hall  
Secretary.....I. W. Wyckoff  
General Prod. Manager.....J. Benjamin  
Domestic Sales Manager...Allen D. McGehee  
Export Sales Manager.....J. E. Chorlian  
Chief Engineer.....Dr. W. Auerbacher  
Purchasing Agent.....A. Weissman

PRODUCTS: AM-FM table models and phono combinations, portable radio receivers and television receivers, non-breakable pilotone vinylite records.

### Precision Specialties

210 N. Western Ave., Los Angeles, Calif.  
Phone: Hi. 8333

General Manager-Co-owner.....L. Glaser  
Sales Manager-Co-owner.....J. Raeburn  
Radio Dept. Head.....W. F. Frankart  
Chief Purchasing Agent.....C. Gould

Chief Engineer—Plastics.....M. R. Roberts  
 Comptroller.....P. Gatov  
 General Sales Manager.....P. Belvin, 3rd  
 Plant Manager—Plastics.....Mr. Washburn  
 Plastic Stylist-Engineer.....Lee McMurray

**PRODUCTS:** Broadcast receivers AC-DC, Phono-combinations, FM-AM consoles, crystal sets, electronic toys, short wave communication equipment, civilian walkie-talkie, radio equipment.

**Press Wireless Mfg. Corp.**

1475 Broadway, New York 18, N. Y.  
 Phone: Bryant 9-5030

President.....A. Warren Norton  
 Vice-President.....F. P. Andrews  
 Treasurer.....James Humphry, Jr.  
 Secy. & Gen. Counsel.....James E. Denning  
 Factory Manager.....M. G. Himmel  
 Chief Engineer.....L. N. Hatfield  
 Sales Manager.....Stephen Horbach

**BRANCH OFFICE:** (Factory) — Hicksville, L. I., Phone, Hks. 988, M. G. Himmel, Factory Manager.

**PRODUCTS:** Radio Transmitters, Radio Receivers, Transmitting Keyers, Radio Facsimile, Radio Amplifiers, Radio Transceivers, Radio Recorders, Frequency Shift Converters, Radio Photo Transceivers Facsimile High Speed Ink Tape Recorders and Optical Tape Scanners.

**Presto Recording Corp.**

242 W. 55th St., New York 19, N. Y.  
 Phone: Circle 5-7760

President.....George J. Saliba  
 Secretary.....Morris M. Gruber  
 Treasurer.....A. Benjamin  
 Comptroller.....Ruth B. Sholes  
 Sales Manager.....Thomas B. Aldrich

**BRANCH OFFICES:** 13000 Mackenzie Ave., Detroit, Mich., Phone, University 1-0180, Art Adams, Manager. 139 S. Fairview Ave., Upper Darby, Pa., Phone, Sunset 2383R, Malcolm A. Peckham, Manager. 350 Lake St., Boston, Mass., Phone, Belmont 4510, H. M. Lane, Manager. 309 Reliance Bldg., Kansas City, Mo., Phone, Victor 4631, C. E. Terry, Manager. 139 N. Central Ave., Clayton, Mo., Lee Maynard, Manager. 1836 Euclid Ave.; Cleveland, Ohio, Phone, Main 1565, E. P. Scott, Manager. 600 S. Michigan Ave., Chicago, Ill., Phone, Harrison 4240, Leroy W. Beier, Manager. Washington, D. C. (Silver Spring, Md.), Phone, Shepherd 4003, Morris F. Taylor, Manager. 7422 Melrose Ave., Los Angeles, Calif., Phone, Whitney 1147, Norman B. Neeley, Manager. 104 Battery St., Seattle, Wash., Phone, Sen. 2560, L. D. Marsh, Manager. P. O. Box 1805, Dallas, Texas, Phone, Tenni-

son 3-7093, J. Earl Smith, Manager. Dominion Square Bldg., Montreal, Quebec, Phone, Marquette 6368, W. P. Downs, Manager. 4253 Quitman St., Denver, Colo., Phone, Grand 1768, Richard A. Hyde, Manager. 25 Warren St., New York, N. Y. (Export), Phone, Barclay 7-5513, Norman Simons, Manager. 940 Lake Elbert Drive, Winter Haven, Fla., Phone, 22-684, R. H. Van Dusen, Manager. Ellicott Square Bldg., Buffalo, N. Y., Phone, Washington 2517, R. W. Mitscher, Manager. 3355 Dell Trail, Chattanooga, Tenn., Phone, 4-4026, Jesse P. Johnson, Manager. 1105 Kapiolani Blvd., Honolulu, Hawaii, Phone, 3966, Tommy Kearns, Manager.

**PRODUCTS:** Sound recording equipment, discs, needles, transcription turntables, recording amplifiers and accessory recording equipment.

**Radio Condenser Co.**

Davis & Copewood Sts., Camden, N. J.  
 Phone: Camden 7300

President.....Stanley S. Cramer  
 Vice-President.....Russell E. Cramer  
 Vice-President.....Russell E. Cramer, Jr.  
 Sales Manager.....William J. May  
 Factory Manager.....Charles F. Molzen  
 Treasurer.....William W. Paul  
 Purchasing Agent.....James W. Willard

**PRODUCTS:** Variable air condensers and mechanical push-button controls.

**Radio Corp. of America  
 (RCA Victor Division)**

Front & Cooper Streets  
 Camden, New Jersey  
 Phone Camden 8000

Exec.-Vice-Pres., Charge of Division  
 Frank M. Folsom

Operating V. P.—  
 RCA Victor Div.....J. G. Wilson  
 V. P.—General Attorney....J. H. McConnell  
 Dir. of Purchasing.....V. dePaul Goubeau  
 V. P.—Charge Engr. Dept.....D. F. Schmit  
 Pres.—RCA Service Co.....E. C. Cahill  
 V. P.—Charge Home

Instrument Dept.....J. B. Elliott  
 Chief Engineer—Home

Instrument Dept.....D. D. Cole  
 Sales Manager—Home

Instrument Dept.....H. G. Baker  
 V. P.—Charge Record Dept....J. W. Murray  
 Chief Engr.—Record Dept....H. I. Reiskind  
 V. P., Actg. Gen. Sales Mgr.—

Charge Tube Dept.....L. W. Teegarden  
 Chief Engr.—Tube Dept....Dr. G. R. Shaw  
 V. P.—Chg. Engr.

Products Dept.....W. W. Watts  
 Chief Engr.—Engr.

Products Dept.....M. C. Batsel

Sales Mgr.—Engr.

Products Dept.....T. A. Smith

**DIVISION PLANTS:** Main Offices: Camden, N. J.; Harrison, N. J.; Lancaster, Pa.; Indianapolis, Ind.; Bloomington, Ind.; Monticello, Ind.; Pulaski, Va.; Chicago, Ill.; Detroit, Mich.; Hollywood, Calif.

**PRODUCTS:** Antenna Systems, Application & Maintenance, Engineering Services, Aviation Radio Equipment, Battle Announce Systems; Brenkert Projection Equipment, Broadcast Station Equipment (AM and FM), Communications Equipment, Component Radio & Electronic Parts, Custom Disc Recordings, Direction Finders, Drive-In Theatre Equipment, Electronic Carillons & Chimes, Electronic Fire Control Equipment, Electronic Tube Parts & Machinery, Electron Microscopes, Facsimile Equipment, Faradon Condensers, Film Recording Equipment, Film Recording Service Studio (New York and Hollywood), High Frequency Heating Equipment, Industrial Electronic Products, Industrial Sound Equipment, Inter-Communication Equipment, Microphones, Music Library Service, Police Radio Equipment; Projection Booth Equipment, Public Address & Plant Broadcasting Equipment, Radar Equipment, Radio Parts, RCA Dry Batteries, RCA Victor Radios, RCA, Cunningham, and RCA Victor Electron Tubes, RCA Victor Records, Albums, Needles, Recording Equipment, Scientific Equipment, Screens, Service & Maintenance for Theatre Sound Equipment, 16mm Sound Film Projectors, Sonar Equipment, Sound Discs for Slide Films, Sound Powered Telephones, Sound Systems & Components, Special Apparatus & Technical Services for U. S. Government, Television Receivers, Transmitters, and Associated Equipment, Test & Measuring Equipment, Theatre Furnishings, Theatre Sound Systems, Victrola Radio-Phonographs.

**Radio Development & Research Corp.**

26 Cornelison Ave., Jersey City 4, N. J.

Phone: Bergen 3-6900 Rector 2-2337

President.....S. Irving Weiss  
Asst. to President.....C. A. Porter  
Sales Manager.....C. A. Porter  
Purchasing Agent.....Kenneth Malbie  
Chief Engineer.....Robert Dorr  
Plant Superintendent.....A. H. Baus  
Service Manager.....Richard Simms

**PRODUCTS:** Home receivers, two-way plane communications, magnetic steel tape recorders, public address systems, ship-to-shore communications. Trade names Magitone, Chronovox.

**Radio Engineering Labs., Inc.**

35-54—36th St., Long Island City 1, N. Y.

Phone: Astoria 8-1010

President.....Charles M. Srebroff

Vice-Pres.....Frank A. Gunther  
Secretary.....Marion Wade  
Chief Engineer.....Malbon H. Jennings  
Plant Manager.....Henry Dietz  
Sales Manager.....Joseph Behr  
Director of Purchases.....Marion Wade  
Director of Research.....James R. Day

**PRODUCTS:** Broadcast transmitters, FM and AM, 250 watts to 50 kw; Antennas—FM, speech input equipment, Frequency Modulation monitors, FM receivers, FM studio to transmitter link equipment, portable transmitters for remote pick up service, mobile two-way FM transmitters.

**Raytheon Manufacturing Co.**

Waltham 54, Mass.

President.....Laurence K. Marshall  
Vice-Pres.-Treas.....David T. Schultz  
Secretary.....D. L. Trouant  
Vice-President.....Joseph Pierson  
Vice-President.....Ray C. Ellis  
Gen. Sales Dept. Mgr. John H. Fenstermacher

**BRANCH OFFICES:** Offices in New York, N. Y.; Chicago, Ill.; Los Angeles, Calif.; Waltham, Mass.; Newton, Mass. Plants Located in Newton, Mass.; Waltham, Mass.; Chicago, Ill.

**PRODUCTS:** Electronic components, equipments, systems.

**Scophony Corp. of America**

527 Fifth Ave., New York 17, N. Y.

Phone: MURray Hill 2-5960

President.....Arthur Levey  
Vice-President.....Joseph E. Swan  
Treasurer.....Franklin Field  
Director of Research...Dr. A. H. Rosenthal

**BRANCH OFFICES:** 40 Gloucester Sq. W., London, Eng. Sir M. B. Carter, Chairman. Wells, Somerset, England, W. G. Elcock, Managing Director.

**PRODUCTS:** Television projectors, electronic devices.

**Sentinel Radio Corp.**

2100 Dempster St., Evanston, Illinois

Phone: University 2400

President.....E. Alschuler  
Vice-President.....O. F. Taylor  
Production Manager.....I. Jacobsen

**PRODUCTS:** Radio receiving sets and table, console models, portable radios, radio-phonograph combinations, table and console models, FM-AM table console and radio phonograph combinations.

**Sheridan Electronics Corp.**

2850 South Michigan Ave., Chicago 16, Ill.

Phone: Calumet 2100

President.....John J. Sheridan  
Vice-President.....Arthur Sheridan  
Secretary.....L. Schlifkin  
Comptroller.....Lucille Daniels

Plant Supt.....F. Lorentz  
 Purchasing Agent.....J. H. Stackhouse  
**PRODUCTS:** Radio Receivers AC/DC,  
 Table Models, Consoles AM/FM, Phonographs AC, Amplifiers.

**Sonora Radio & Television Corp.**

77 W. Washington St., Chicago 2, Ill.  
 Phone: Cen. 3614

V. P.—Charge Sales.....Edward Harris  
 V. P.—Charge Finances.....Ray Shadley  
 Executive Vice-President.....Ben Freund  
 V. P.—Charge Engineering...Don Fetterman  
 Advertising Mgr.....Herbert S. Hall  
 Recording Director.....Marie Ruebens

**BRANCH OFFICES:** Reko-Plastik Div.,  
 Meridan, Conn., W. R. Dodds, Sr.; Sonora  
 Radio & Tel. Corp., 730 Fifth Ave., New  
 York 19, N. Y., Phone, Circle 7-5492, Milton  
 J. Benjamin; Sterling Wood Working Div.,  
 Chicago, Ill., Walter Roberts.

**PRODUCTS:** Radios, radio-phonographs,  
 portables, AM-FM combinations, television  
 receivers, phonograph records, Sterling cedar  
 chests.

**Stewart-Warner Corp.**

1826 Diversey Pkwy., Chicago 14, Ill.  
 Phone: Lakeview 6000

President.....J. S. Knowlson  
 Exec. Vice-President.....F. A. Hiter  
 Mgr. Radio Department.....F. D. Masters  
 Asst. Mgr. Radio Dept.....J. R. Brandenburg  
 Mgr. Radio Service.....N. J. Cooper  
 Mgr. Radio Adv.....L. B. Pambrun  
 E. L. Ebran, K. B. Doan, G. W. Oehlsen  
 Field Representatives.....Frank Helderle,  
 M. O. Beckham, E. R. Rutledge

**PRODUCTS:** Radios: AM-FM, Console,  
 Table, Console Combinations, Table Com-  
 binations, Portable. Television: AM-FM, Con-  
 sole.

**Stromberg-Carlson Co.**

100 Carlson Road, Rochester 3, N. Y.  
 Phone: Culver 260

Chairman of Board.....Wesley M. Angle  
 President.....Ray H. Manson  
 Vice-President-General Mgr....Lee CcCanne  
 Vice-President—Finance....Gordon G. Hoit  
 Vice-President.....Sales..Lloyd L. Spencer  
 Vice-President—Engineering  
 and Research.....Frederic C. Young  
 Secretary.....Edwin C. Roworth  
 Treasurer.....Wilbur W. Hetzel  
 Controller.....J. Lester Gasser

**BRANCH OFFICES:** 564 W. Adams St.,  
 Chicago 6, Ill., Phone, State 4234; 2017 Grand  
 Ave., Kansas City 8, Mo., Phone, Harrison  
 6618; 1355 Market St., San Francisco 3, Calif.,  
 Phone, Underhill 5388; 211-219 Geary Ave.,

Toronto, Ont., Canada, Phone, Melrose 2453,  
 Ralph A. Hackbusch, Vice-President-Manag-  
 ing Director; 2152 W. Washington Blvd.,  
 Los Angeles 7, Calif., Phone, Rochester 2168.

**PRODUCTS:** Communications equipment,  
 including radio, television, telephone, sound  
 equipment and wire recording equipment.

**Sylvania Electric Products, Inc.**

500 Fifth Ave., New York, N. Y.  
 Phone: CHickering 4-4470

President.....W. E. Poor  
 Executive Vice-President,

Sales.....D. G. Mitchell  
 Director of Engineering....E. Finley Carter  
 General Sales Manager, Radio Tube Sales

C. W. Shaw  
 D. R. Adv. S. P.....Henry C. L. Johnson  
 Director Public Relations....Paul S. Ellison

**PRODUCTS:** Receiving tubes, cathode ray  
 tubes, transmitting tubes, electronic devices.

**Telefone Radio Co.**

609 W. 51st St., New York 19, N. Y.  
 Phone: Circle 6-7590

President.....S. W. Gross  
 V. P., Dir. Sales & Adv.....John S. Mills  
 Chief Engineer.....B. Singer

**PRODUCTS:** Table model radios, table  
 model radio-phono combinations.

**Television Associates, Inc.**

190 N. State St., Chicago 1, Ill.  
 Phone: Andover 3294

President.....C. Collette  
 Vice-President.....Judge C. Woolridge  
 Secretary-Treasurer.....E. C. Upton

**PRODUCTS:** Manufacturers and distrib-  
 utors of Bill Eddy gadgets for television,  
 including Tele-Lites, Kaleidoscopes, Special  
 Effects, etc.

**Telicon Corp.**

851 Madison Ave., New York 21, N. Y.  
 Phone: Butterfield 8-1900

President.....Solomon Sagall  
 Vice-President.....Samuel Surrey  
 Vice-Pres.-Secretary.....Colin Ives  
 Vice-President.....W. R. Rich  
 Chief Engineer.....Richard Shottenfeld  
 Production Manager.....Martin Auerbach  
 Purchasing Agent.....I. Hecht

**PRODUCTS:** AM & FM broadcast receivers,  
 television receivers, intra-video systems,  
 television receiving antenna, quartz crystals.

**Templetone Radio Mfg. Corp.**

Templeton Bldg., New London, Conn.  
 Phone: New London 5346

President.....Oscar Dane  
 Vice-President—Manufacturing....Eli Dane

# EQUIPMENT MANUFACTURERS

Vice-Pres., Charge of

Engineering.....Dr. Dale Pollack  
Purchasing Agent.....M. A. Gardner  
Director Distribution.....S. A. Kelsey

PRODUCTS: Radios and electronic test equipment, receivers, television receivers, record players, combinations.

## United States Television Mfg. Corp.

3 W. 61st St., New York 23, N. Y.

Phone: CIRCLE 6-4255

President .....Hamilton Hoge  
Vice-President .....John Hoge

PRODUCTS: AM & FM radios, television receivers, television test equipment and component parts, television transmitting equipment.

## Universal Microphone Co.

424 Warren Lane, Inglewood, Calif.

Phone: OREGON 8248

General Manager.....James L. Fouch  
Purchasing Agent....."Rick" Ricksecker

BRANCH OFFICES: Gerber Sales Company, 94 Portland St., Boston, Mass.; Howard F. Smith, 259 W. 14th St., New York 11, N. Y.; Stanley Wallace, Lutz (Tampa), Fla.; E. C. Edwards Sales Agency, 504 Erie Bldg., Cleveland, O.; L. G. Cushing Sales Company, 210 E. Ohio, Chicago, Ill.; Don R. Lewis, Box 512, Salt Lake City, Utah; Jas. J. Backer, 2321 Second Ave., Seattle, Wash.; R. W. Farris Company, 406 W. 34th St., Kansas City, Mo.; Mil Klicpera, Box 3113, Houston, Tex.; Robert Misk, 642 Beaubien Ave., Kerr Bldg., Detroit, Mich.; Al Leban, 5716 Nassau Road, Philadelphia, Pa.; Bursell & Chermak, 2233 University Ave., St. Paul, Minn.; Sig Cohn, 282 W. Santa Barbara, Suite 208, Los Angeles, Calif.

Foreign Division: 301 Clay St., San Francisco 11, Calif.

Canadian Division: 560 King St., W., Toronto 1, Canada.

## Western Electric Co., Inc.

(Radio Division)

120 Broadway, New York 5, N. Y.

Phone CORTLAND 7-7700

Vice-Pres.-Mgr.....F. R. Lack  
Manager—Distributor Sales....S. P. Taylor

PRODUCTS: FM and AM transmitters, antennas and antenna accessories, phase monitors and antenna phasing equipment, speech input equipment for FM and AM, speech input amplifiers and accessories, sound distribution systems and components, microphones and accessories, transcription turntables and pickups, loudspeakers, power supplies, electron tubes, relays, keys, jacks, and mountings, sound and vibration measur-

ing equipment, aviation, marine, police radio transmitters and receivers, vehicular equipment, single sideband and point-to-point radiotelephone equipment, carrier telephone and train dispatching equipment, telephone apparatus, cable and wire, thermistors, varistors and resistors, crystals, fastax cameras, field engineering services.

## Westinghouse Electric Corp.

Industrial Electronics Division

2519 Wilkens Ave., Baltimore 3, Maryland

Phone: Edmondson 2300

Home Radio Division

Front Street and Susquehanna Ave.,  
Sunbury, Pa.

Phone: Sunbury 2520

Lamp Division

MacArthur Ave., Bloomfield, N. J.

Phone: Bloomfield 2-2200

President.....Gwilym A. Price

Vice-President .....Walter Evans

Asst. to Vice-President....Walter E. Benoit  
Mgr., Industrial Electronics

Div.....C. J. Burnside  
Sales Mgr., Ind. Elect. Div.....C. W. Miller  
Engr. Mgr., Ind. Elect. Div....R. N. Harmon  
Purchasing Agent, Ind. Elect.

Div. ....David M. Nelson  
Manager, Home Radio Division..H. B. Donley  
Asst. Mgr., Home Radio Div..H. W. Schaefer  
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Vice-President, Lamp Div.....R. C. Stuart  
Sales Mgr., Electronic Tubes....A. Frankel  
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Phone: Berkshire 7500

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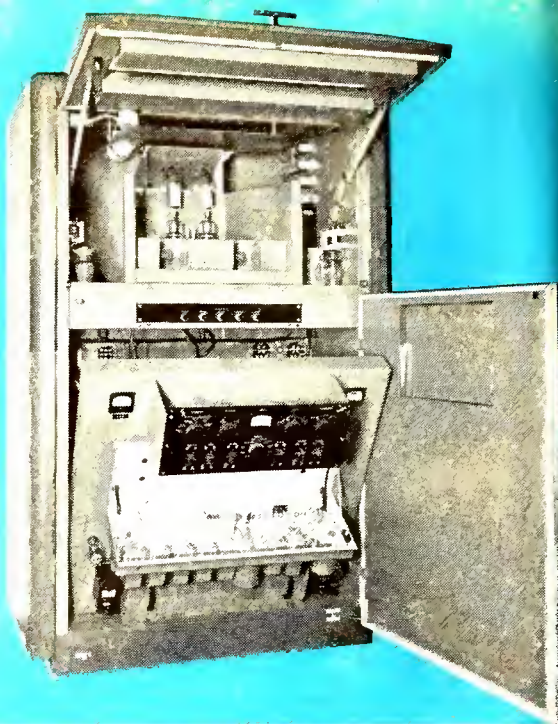
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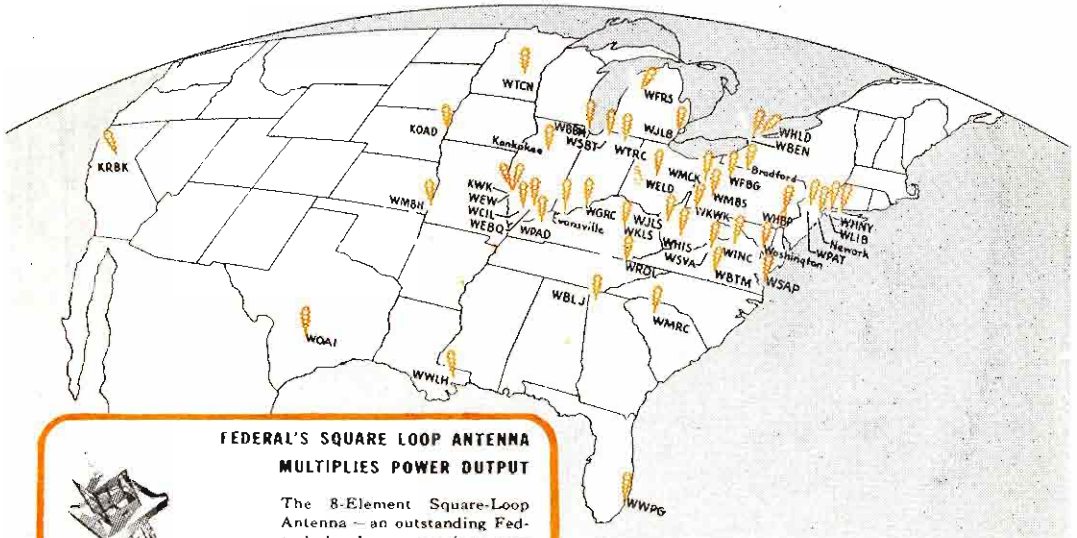
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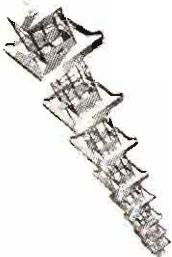


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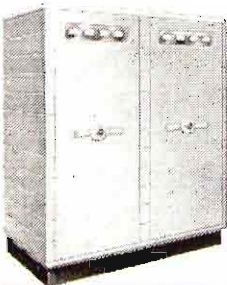


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