

# HEINL RADIO BUSINESS LETTER

INSURANCE BUILDING

WASHINGTON, D. C.

ISSUED TWICE A WEEK AND CONTAINING THE LATEST INFORMATION REGARDING THE RULINGS OF THE FEDERAL RADIO COMMISSION, RADIO LEGISLATION, DEPARTMENT OF COMMERCE REGULATIONS, CHANGES IN WAVELENGTH, CALL LETTERS AND POWER, PATENTS, EXPORTS, FEDERAL TRADE COMMISSION RULINGS AND OTHER MATTERS OF INTEREST TO BROADCASTERS AND MANUFACTURERS. :: :: **CONFIDENTIAL—NOT FOR PUBLICATION.** :: ::

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AUG 8 1930

PRESS RELATIONS DEPARTMENT  
G. W. JOHNSTONE

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No. 358

## RECEIVER NAMED FOR UNIVERSAL WIRELESS COMPANY

A receiver in bankruptcy has been appointed for the Universal Wireless Communications Co., Inc., authorized to create the first nation-wide radiotelegraphic network, Col. Thad H. Brown, General Counsel of the Federal Radio Commission announced, on the basis of reports he had received.

Col. Brown declared he was informed that the United States District Court at Chicago appointed Sam Howard, of that city, as receiver. The action, he declared, was taken on the application of certain creditors of the company for an involuntary bankruptcy petition.

The company, in 1928, it is shown in Commission records, was allocated the bulk of the available channels in the continental short wave band available for point-to-point communication, for the creation of a radiotelegraphic network linking 110 cities. For this system, it was allocated 40 of the continental channels, over the competitive applications of the Radio Corporation of America, Mackay Radio and Telegraph Company and the Intercity Radio Telegraph Company. The latter company also has gone into the hands of receivers.

### Company Spent Two Millions

Universal, in its last report to the Commission, said it had in operation more than a dozen stations, largely in the East, as the first segment of its network, which would be competitive with the established wire lines of the Western Union and Postal companies. The report declared that in excess of \$2,000,000 had been expended in the establishment of the company.

The Commission, in distributing the continental short wave band for commercial use in December, 1928, granted the Universal application in full, but denied in part and granted in part the R.C.A. applications. Mackay and Intercity were denied outright their requests for sufficient numbers of channels with which to create national radiotelegraphic systems. The Universal Company claimed, and demonstrated to the apparent satisfaction of the Commission, it was brought out at formal hearings relative to the grant before the House Committee on Merchant Marine and Fisheries in 1929, that it could maintain five-way communication on a channel normally used for only one message.

The Commission's entire allocation of continental short wave frequencies for point-to-point service, however, now is involved in litigation pending before the Court of Appeals of the District of Columbia. First Intercity, and then R.C.A. and Mackay appealed from the Commission's action. Universal, however, did not become a direct party to the case.



Col. Brown declared the Commission will give consideration to the Universal case as soon as it is formally apprised of all the circumstances. He pointed out that the company has never been assigned use of the entire block of 40 channels, and that those frequencies which have been assigned it were granted under rigid conditions. The entire allocation to the company, he explained, was made on condition that the 110 cities be linked by the end of 1931, with other provisos of a protective nature.

Several months ago, suit against Universal was filed by the R.C.A., and several of its affiliated and associated companies alleging infringement of five basic patents.

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#### LIKENS TUBES TO MONKEY GLANDS

Usually a new set of radio tubes act as "monkey glands" and revivifies a radio to its new self again, George Lewis, Vice-President of Arcturus Tube Company, Newark, N. J., declares.

"As the announcer for 'Amos 'n' Andy' would say", Mr. Lewis continued, "Let your radio dealer test your tubes during the year; replace your tubes at least once a year."

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#### PACIFIC COAST MINISTER CITED

A complaint against the Rev. Robert P. Shuler, pastor of the Trinity Methodist Church, Los Angeles, Calif., who operates Station KGEF of that city, charging the minister with the broadcasting of "reckless denunciations" over the station, will be considered by the Federal Radio Commission.

Judge Sukes return from a trip to the Pacific Coast recently where he conducted a series of hearings on pending radio applications. The complaint, submitted to him by George D. Lynch, of Los Angeles, a former official of the American Legion, he declared, will be presented to the Commission for its consideration.

Mr. Lyon charged that the broadcasts of Mr. Shuler, "are of a character which may dangerously inflame the passions of some elements of the population, and are apparently so hostile to established institutions of the Government, such as the judiciary and other law-enforcing agencies, that, in the opinion of the undersigned, the public utterances of many of these addresses is contrary to public policy."

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## BRITISH WIRE MERGER FINANCIAL SUCCESS

The first report of Imperial and International Communications, Ltd., the British telegraph and cable merger, covering the last nine months of 1928 and the whole of 1929, shows gross profits amounting to 11,381,262 Lbs. (Lb equals \$4.86), according to a British press report received in the Department of Commerce.

Working expenses, administration charges, taxation, rentals, directors' fees, etc., absorbed 9,357,107 Lbs., leaving a net profit of 2,023,155 Lbs., or 708,912 Lbs. less than the standard revenue above which 50 per cent of the surplus has to be passed on to the users of the system. It is stated that this rate of profit (about 1,156,000 Lbs. per annum) is not expected to be maintained during the current year. The report says that considerable economies have been effected and further savings will be made. Reference is made to what is described as the unfair competition of the post office in the matter of overseas telephony.

Sir Basil Blacket, Chairman of the above company, addressed a private meeting at the House of Lords in which he mentioned, among other things, that the company at the present pays the various Governments some 600,000 Lbs. a year. The British Post Office receives 250,000 Lbs. per annum for rental of the beam stations. This, said Sir Basil, constituted a direct tax on the communications of the Empire.

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## JOHN LITTLEPAGE MARRIED

The marriage of Miss Ruth Foster to Mr. John Marshall Littlepage took place Monday morning, August 4th, in Washington, D. C. at the home of the bride's parents, former Representative and Mrs. Israel Moore Foster, of Ohio, the Rev. Dr. John C. Palmer officiating.

The bride is a graduate of George Washington University and Mr. Littlepage, who is the son of Mr. and Mrs. Thomas Price Littlepage, is also a graduate of the university.

Mr. Littlepage was formerly Assistant United States Attorney and is now associated with his father in the practice of law in the firm of Littlepage and Littlepage, counsel for WBBM, Chicago, WFBM, Indianapolis, and other stations.

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## A-K "GOLDEN VOICE" DEBUT SUCCESS

Judging from the results at the gathering of the 300 Atwater Kent dealers from Maryland, Virginia and the District of Columbia who were dinner guests of William E. O'Connor, President of the Southern Wholesalers, A-K distributor, at the Mayflower Hotel in Washington last Tuesday night, the introduction of the new Atwater Kent "Golden Voice" models to 15,000 dealers in eighty-seven cities, was a huge success.

No orchestra in the Mayflower ballroom probably ever filled it with a greater volume of music than came from this single radio set installed at one end of the room. This was accomplished without the slightest distortion and the various instruments were reproduced with striking fidelity.

When Mr. Kent spoke, his voice came through as naturally as if he had been at the Speakers' table. During his remarks, all conversation ceased and his talk was accorded the same attention as if he were actually present. Just so a round of applause followed the conclusion of his speech.

Addresses of other members of his organization broadcast were also followed closely. Altogether it was an unique demonstration and one which we predict will be followed by other manufacturers.

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## BAR ASSOCIATION RADIO REPORT PRINTED

Copies may be had upon application to the American Bar Association, 1140 North Dearborn Street, Chicago, Illinois, of the Report of the Standing Committee on Communications which will be presented at the meeting of the Bar Association to be held in Chicago August 20th.

Louis G. Caldwell is the Chairman of this Committee and its members are Cassius E. Gates, William C. Green, and Howard S. LeRoy.

The report is a lengthy one covering 168 pages.

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: BUSINESS LETTER BRIEFS :  
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Binghamton, N. Y., will be the center of a 100 mile area protected by police radio, through the cooperation of Station WNBK there and county and city police authorities in some fifty communities.

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A temporary restraining order against enforcement of the South Carolina law taxing owners of radio receiving sets has been issued.

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William H. Ensign has been appointed Manager of Broadcasting Operations for the Columbia Broadcasting System.

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The Lutheran Laymen's League has decided to sponsor a weekly National Lutheran Radio Hour over a chain of stations this Fall, according to the Rev. Herman H. Hohenstein, of Station KFUD, operated by the League.

The Lutherans will use Columbia for their broadcasts, the exact number of stations to be determined later.

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Another search for the most beautiful artist to reign at Radio World's Fair is on. Olive Shea, of Station WABC, won the title last year.

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Joseph A. Chambers has been appointed Assistant Manager of Stations WLW and WSAI in charge of station operations, according to John L. Clark, General Manager of the stations.

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The Boeing System has just completed the installation of 22 ground radiophone stations and has equipped 50 airplanes, making the system the most comprehensive two-way voice communication set-up of any air line in the country.

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The radio aviation networks of the country will be inspected by Commissioner W. D. L. Starbuck, who will make the trip mostly by plane.

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The government of Cuba has established a bureau for the control of radio, partly made necessary by the interest in reception of American progress.

The power of fixing of rates on messages from Cuba to foreign countries will remain with the Service Bureau of the Department of Communications but all other functions will be in the hands of the new bureau.

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#### APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

Broadcasting - August 4, 1930 - WNBH, Irving Vermilya, trading as New Bedford Broadcasting Company, New Bedford, Mass., license to cover C. P. issued 4/28/30 to install new equipment; WDOD, Chattanooga Radio Co., Inc., Brainerd Community, Tenn., request for authority to voluntarily assign license to the WDOD Broadcasting Corporation; KGDY, J. Albert Loesch & Geo. W. Wright, Oldham, South Dakota, license to cover C. P. issued 3/21/30 to move transmitter to  $\frac{1}{2}$  mile from Huron, and move studio to Huron, install new equipment and increase power from 15 watts to 100 W. on 1200 kc.; KFQU, W. E. Riker, Holy City, California, license to cover C. P. issued 5/20/30 to make changes in equipment; KTM, Pickwick Broadcasting Corp., Santa Monica, California, modification of license to change time assignment from sharing with KELW to unlimited, on 780 kc.

August 5 - KWWG, City of Brownsville, Chamber of Commerce (G. C. Richardson, Manager), Brownsville, Texas, request for authority to voluntarily assign license to The Brownsville Herald Publishing Company; WISJ, Wisconsin State Journal Company, Beloit, Wisconsin, request for authority to voluntarily assign construction permit to the Wisconsin State Journal Broadcasting Co.; WMAY, Kingshighway Presbyterian Church, St. Louis, Missouri, request for authority to voluntarily assign license to WMAY, Inc.; WMAY, WMAY, Inc., St. Louis, Missouri, C. P. to move transmitter locally, install new equipment, change frequency from 1200 kc. to 1500 kc., and change hours from sharing with WIL and KFWF to unlimited with 250 watts day and 100 watts night.

August 6 - WMAN, Columbus Broadcasting Corp., Columbus, Ohio, modification of license to change frequency from 1210 kc., to 1310 kc. and to operate experimentally on 1310 kc. pending decision of this application; WDOD, Chattanooga Radio Co., Inc., Brainerd-Community, Tennessee, request for authority to install automatic frequency control; WEBQ, First Trust & Savings Bank of Harrisburg, Harrisburg, Ill., C. P. to make changes in equipment; KOOS, H. H. Hanseth, Marshfield, Oregon, C. P. to move transmitter and studio to the Hall Bldg., Marshfield, Oregon, and install a new motor generator; KOOS, H. H. Hanseth, Marshfield, Oregon, request for authority to voluntarily assign license to H. H. Hanseth, Inc.

### Applications Other Than Broadcasting

August 4 - WDA, RCA Communications, Inc., Rocky Point, N. Y., license to cover C. P. for 9480 kc., 80 KW, limited public service; RCA COMMUNICATIONS, INC., Rocky Point, N. Y.; WDB, license to cover C. P. for 6717.5 kc, 80 KW, limited public service; W2XBL, RCA Communications, Inc., Rocky Point, N. Y., license to cover C. P. for 60000 to 400000 kc., and above 401000 kc., 1 watt; W2XBZ, RCA Communications, New Brunswick, N. J., license to cover C. P. for 4795, 6425, 8650, 12850, 17300, 25700, 34600, 51400 and 60000 to 400000 kc. 80 KW, experimental service; W2XAO, New Brunswick, N. J., renewal of experimental license for 6950, 6965, 7415, 8930, 9450, 9470, 9490, 13480, 13870, 13900, 14800, 14920, 16030, 17860 kc., 80 KW; W2XBJ, Rocky Point, N. Y., renewal of experimental license for 6740, 9850, 15040, 16000, 16030, 17900, 20100, 21300 kc., 80 KW.

Also, Fred W. Christian, Jr., Portable in 6th District, C. P. for experimental frequencies, 1 KW (new); Atlantic Broadcasting Corp., portable to be used in metropolitan area of N.Y.C., renewal of experimental license for 860 kc., 500 watts; Intercity Radio Telegraph Co., Duluth, Minn., WME, renewal of limited public license for 184, 194 kc., 1 KW; also renewal of coastal license for 410, 143, 5525, 425, 454, 165, 171, 4116, 8630 kc., 1 KW.

August 6 - Robert W. Hunter, Greensboro, N. C., new experimental C. P. for 3256, 4795, 8650, 12850 kc., 25 watts; Rev. Lannie W. Stewart, Cartersville, Mo., new experimental C.P. for all experimental frequencies, 100 watts; KOS, Press Wireless Inc., Los Angeles, Calif., modification of C. P. for additional frequencies: 7340, 15730, 7850, 15700, 7955, 15910, 7355, 15760, 7820, 15640, 7370, 15610, 7640, 7925, 15850, 7625, 15580, 7835, 15670, 5325, 5335, 5345, 5355, 4715, 4745, 4945, 4965, 4975, 4985, 4995, 5295, 4925, 4955, 5315, 5305, 4725, 5285, 4735, 4935 kc. KDG, PressWireless, Inc., Honolulu, T. H., modification of C.P. for additional frequencies: 7850, 15700, 7640, 7925, 15850, 7625, 15580, 5325, 5335, 5345, 5355, 4715, 4745, 4945, 4965, 4975, 4985, 4995, 5295, 4925, 4955, 5315, 5305, 4725, 5285, 4735, 4935 kc; WRDU City of New York Fire Department, Brooklyn, N. Y., modification of C. P. for extension of completion date to 8/29/30.



Also, Fokker Aircraft Corp., KHNGT, Airplane A.T.C. 281, new Aircraft license for 3106 kc., 50 watts; KHIZA, New York Airways, Inc., Airplane NC-411-H, new aircraft license for 5690 kc., 12 watts; Alaska Washington Airways, Airplane NC-974-H, new aircraft license for 3106 kc., and whatever is available, 150 watts; KGE, Boeing Air Transport, Inc., Medford, Oregon, assignment of license to Aeronautical Radio, Inc., W2XBG, Radiomarine Corp., of America, Garden City, N. Y., modification of experimental license for addition of 3452 kc. for a period of 90 days; W6XV, Federal Telegraph Co., Palo Alto, Calif., renewal of experimental license for 99, 150, 375, 500, 1604, 2398, 3256, 4795, 6425, 8650, 12850, 17300, 24100, 25100, 27100, 30100, 75100 kc., 10 KW.

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# APPLICATIONS GRANTED BY FEDERAL RADIO COMMISSION

August 5, 1930: WRAW, Horace D. Good, tr. as Avenue Radio and Electric Shop, Reading, Pa., consent to voluntary assignment of license to Reading Broadcasting Company; WEMC, Emmanuel Missionary College, Gerrien Springs, Michigan, permission to discontinue service until September 30, 1930; KGHL, Northwestern Auto Supply Co., Inc., Billings, Montana, special permission to use new 1000 w. transmitter to broadcast a chain program August 5 between 5 and 6 P. M.; KGBX, Foster-Hall Tire Company, St. Joseph, Missouri, consent to voluntary assignment of license to KGEX, Inc.; WMSG, Madison Square Garden Broadcasting Corp., New York, N. Y., C. P. to install new 250 w. composite equipment including direct crystal control; WCV, Michigan Wireless Telegraph Co., Wyandotte, Michigan, C. P. to install additional equipment; WNO, Michigan Wireless Telegraph Co., Alpena, Michigan, C. P. to install additional equipment; WPDL, City of Lansing, Michigan, Lansing, Michigan, modification of C. P. to extend completion date to 12/1/30 and change transmitting equipment;

Also WSY, The Susquehanna Power Co., Darlington, Maryland, modification of C. P. to extend completion date to 11/1/30; WJV, Philadelphia Electric Co., Philadelphia, Pa., modification of C. P. to extend completion date to 11/1/30; WPDD, Chicago Police Dept., Chicago, Illinois, modification of C. P. to extend completion date to 3/1/31; WPDB, Chicago Police Dept., Chicago, Ill., modification of C. P. to extend completion date to 10/15/30; W3XM, Durham & Co., Inc., Philadelphia, Pa., modification of C. P. to extend completion date to November 15, 1930; KGPB, City of Minneapolis, Police Department, Minneapolis, Minn., license to cover C. P. to operate on frequency 2416 kc., 400 w., adjusted to 250 w. at present; WAPI, Alabama Polytechnic Inst., Birmingham, Ala., special authority to broadcast from 6 to 7 P. M. August 5 (Central Standard Time); W2XAN, Atlantic Broadcasting Corp., Nassau County, N. Y., renewal of license and authority to operate a portable 500 watt transmitter for making field measurements in the metropolitan area of N. Y. City. Continuous waves only to be used, frequency 860 kc., (between 1:00 and 7:30 A. M.).

Also, For New Stations: Pan-American Airways, Inc., North Beach, New York, N. Y., C. P. specifying frequencies 278, 2262, 3070, 12210, 5690 and 8015 kc., day only, 15 and 300 watts; WESTERN AIR EXPRESS, INC., Fokker Planes #504, 502, 503 and Boeing Planes #54, 55, licenses to operate on frequencies 3070, 3106, 3460, 6350 kilocycles, 50 watt power.

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#### FINLAND AS A RADIO MARKET

Following are excerpts of a report on Finland as a radio market as transmitted by Commercial Attache Osborn S. Watson, of Helsingors, to the Department of Commerce:

"The development of radio broadcasting in Finland has been rapid in recent years. There are now seven broadcasting stations in the country, the principal one being that at Lahti.

"There are a number of pick-ups available on the market to use in connection with regular radio sets, but the sale of such equipment has not been large. There will undoubtedly be, however, a definite market for a small, self-contained, electrically driven turntable with audio amplifier incorporated under the same cover to use with a separate loud speaker. Such an apparatus has already been assembled by a domestic radio house. This machine consists of an electrically driven turntable with a 2-tube audio amplifier in a box about the size of the usual portable phonograph to be used with separate loud speaker. This machine will sell for about 1,200 Finnish marks. The reproduction is sufficiently loud for home use.

"Most of the radio sets and parts imported into Finland come from Germany, Sweden, and the Netherlands. The quality and technical excellence of American sets is recognized, but the price and the usual receiving range of these sets, from 200 to 600 meters militate against their general use.

"It is believed that at present the best method of distribution of radio equipment in Finland is through a sole agency. By intelligent sales methods and proper advertising and servicing, the sale of radio in Finland can, no doubt, be substantially increased."

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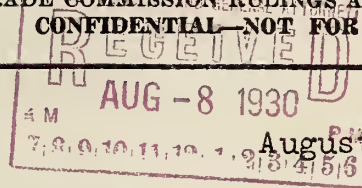
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August 7, 1930.

## PATENTS, PATENT SUIT, TRADE-MARKS, DESIGNS, PRINT

The following patents were granted during the week ending August 5, 1930:

- 1,772,077. System of Radio Communication. Henry C. Forbes, Chicago, Ill., assignor to Zenith Radio Corporation, Chicago, Ill. Filed September 16, 1926.
- 1,772,125. Loud-Speaker Armature. Nathaniel Baldwin, East Mill Creek, Utah. Filed July 5, 1927.
- 1,772,133. Device for Rectifying Alternating Current. Pieter Wilhelm Dobben, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed July 23, 1926, and in the Netherlands October 7, 1925.
- 1,772,163. Diaphragm For Sound-Reproducing Machines. Alexander E. Squyers, Valdosta, Ga., assignor of one-half to Thomas O. McLendon, Valdosta, Ga. Filed May 22, 1925.
- 1,772,165. ✓ Multiplex Broadcast System. Edmund R. Taylor, New York, N. Y., and Oscar B. Hanson, Roselle, N. J., assignors to American Telephone and Telegraph Company. Filed August 17, 1926.
- 1,772,166. ✓ Multiplex Broadcast System. Edmund R. Taylor, New York, N. Y., assignor to American Telephone and Telegraph Co., Filed August 17, 1926.
- 1,772,167. Signaling System. Edmund R. Taylor, New York, N. Y., assignor to American Telephone and Telegraph Co. Filed December 31, 1926.
- 1,722,168. ✓ Multiplex Broadcasting System, Edmund R. Taylor, New York, N. Y., and Oscar B. Hanson, Roselle, N. J., assignors to American Telephone and Telegraph Company. Filed April 28, 1927.

- 1,772,281. Electrical Resistance Device. Fritz R. Friedrich and Francis Friedrich, New York, N. Y. Filed August 12, 1926.
- 1,772,327. Voltage and Current Regulator for Alternating Current Circuits. Alfred Soulier, Cachan, France. Filed September 27, 1928, and in Belgium October 4, 1927.
- 1,772,372. Vernier Adjusting Device. Samuel Tierney, Jr., Westfield, N. J., assignor to Radio Corporation of America. Filed July 18, 1927.
- 1,772,374. Signaling System. Julius Weinberger, New York, N. Y., assignor to Radio Corporation of America. Filed May 3, 1923.

#### Adverse Decision In Interference

- Pat. 1,630,118. R. S. Fisher, Electron-tube-amplifying apparatus, decided December 3, 1929, claims 1 and 2.

#### Patent Suit

- 1,691,214, W. Sparks et al, Signaling device, D. C., E. D. Mich., S. Div., Doc. 3261, The Sparks-Withington Co. v. J. T. Rhamstine. Dismissed without prejudice April 11, 1930.

#### Trade-Mark Registrations Granted

- 273,417. Antennae. Antennon Radio Company, Buffalo, N. Y. Filed March 10, 1930. Published May 6, 1930.
- 273,593. Attachment Applicable to Spark Plugs for Intensifying the Spark Produced. Carbex Chemical Company, West End, N. J. Filed December 11, 1929, Published May 13, 1930.
- 273,594. Photo-Electric Cell. G-M Laboratories, Inc., Chicago, Ill. Filed March 26, 1930. Published May 13, 1930.
- 273,607. Phonographs. O. G. Needham & Co., Fort Worth, Texas. Filed September 5, 1929. Published May 6, 1930.
- 273,642. Electric Transformer. Seymour Perfection Electrical Co., Kansas City, Mo. Filed February 18, 1930. Published May 13, 1930.
- 273,643. Electrical Systems for Reproducing, Amplifying and Projecting Sound. Western Electric Company, Inc., New York, N. Y. Filed February 15, 1930, Published May 6, 1930.



- 273,647. Electrical Batteries, Radio Receiving Sets, Wet and Dry Electric Batteries, and Flash Lights. The Marconi Manufacturing Company, Seattle, Wash. Filed January 9, 1930. Published May 13, 1930.
- 273,655. Radio Receiving Sets, Vacuum or Electron Tubes, and Radio Speakers. Columbia Radio Corporation, Chicago, Ill. Filed February 24, 1930. Published May 6, 1930.
- 273,662. Neon Tubes, Gaseous-Discharge Tubes, and Variable Luminescence Tubes. G-M Laboratories, Inc., Chicago, Ill. Filed March 26, 1930. Published May 13, 1930.
- 273,675. Electrical and Mechanical Phonographs and Talking Machines. Radio Corporation of America, New York, N. Y. Filed April 26, 1929, Published May 13, 1930.
- 273,676. Electric and Mechanical Phonograph and Talking Machines. Radio Corporation of America, New York, N. Y. Filed April 26, 1929. Published May 13, 1930.

#### Print

- 12,642. - Title: Arcturus Photolytic Cell. For Photo-Electric Devices. Arcturus Radio Tube Company, Newark, N. J. Published May 10, 1930.

#### Designs

- 81,745. Escutcheon Plate. John Geloso, Brooklyn, N. Y., assignor to Pilot Radio & Tube Corporation, Brooklyn, N. Y. Filed September 27, 1929. Term of patent  $3\frac{1}{2}$  years.
- 81,757. Radio Cabinet. Karl E. Rollefson, Chicago, Ill., assignor to National Electrical Products Company, Chicago, Ill. Filed May 1, 1930. Term of patent  $3\frac{1}{2}$  years.
- 81,762. Radio Cabinet or Similar Article. John R. Schwinzer, Bayside, N. Y., assignor to Tiffany Studios, New York, N.Y. Filed March 21, 1930. Term of patent  $3\frac{1}{2}$  years.

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