

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 :: :: **CONFIDENTIAL—NOT FOR PUBLICATION.** :: ::

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INDEX TO ISSUE OF JULY 9, 1931.

Radio Recorder For Checking Stations Accepted.....	2
Radio Useful To Smithsonian Institution.....	3
Seven Temporary Licenses Granted.....	4
Holds Press Need Not Fear Radio.....	4
Special Antenna For 33-Story Building.....	5
Appeals Filed By WFI and WSPA.....	5
Business Letter Briefs.....	6
NBC Acquires Waldorf-Astoria Rights.....	7
Perryman Offers Three New Tubes.....	7
Plans Automatic SOS Alarms.....	7
Applications Received By Federal Radio Commission.....	8
Decisions Of The Federal Radio Commission.....	9

No. 450

RADIO RECORDER FOR CHECKING STATIONS ACCEPTED

Broadcasters suspected of violating any of the regulations of the Federal Radio Commission had better watch their step henceforth or have a good alibi ready when summoned for a hearing.

An especially-designed radio recorder for checking stations was accepted this week by the Commission, following a successful demonstration, for use in gathering evidence against broadcasting stations under investigation. There will no longer be any question as to the authenticity of reported misconduct, for the records will be available for reproduction at the hearing.

The machine, developed by RCA Photophone, Inc., will not only produce a more accurate verbatim transcription, but will be cheaper than past methods in that it will replace a corps of stenographers who have worked in relays when a lengthy report on a station's program was desired.

The apparatus, which cost approximately \$1,000 was manufactured at Camden, N. J., by the RCA Victor Co., on order of the Photophone Company. It consists of three portable units, electrically operated by regular alternating current. In the units are a recorder containing two motor-driven turntables, which operate continuously and are overlapping, a recording amplifier, a microphone, and a highly selective receiving set. With this combination, it is possible to pick up a particular station and record its entire program on the pregrooved blank disc records. The principle, it was explained, is the same, along general lines, as the "home-recording" radio receiving sets.

"We believe the operation of this device will solve many of the problems that have been confronting us for several years", said Acting Chairman E. O. Sykes, following the demonstration.

"With it we will be able to record radio broadcasts in any section of the country and have a permanent record for use in any emergency. Heretofore we have been obliged to resort to stenographic reports and oftentimes they have proven unsatisfactory. Now we shall have an absolutely perfect record which, if need be, can be introduced at hearings before the Commission's Examiners to support the allegations in the Commission's bill of complaint.

"With this new device in operation, we shall be able to maintain close contact with all broadcasting activities and when it becomes generally known that we have installed the apparatus, we believe it will be the means of lessening the number of infractions against the Commission's rules and regulations. The portability of the apparatus, which can be transported in three small cases, will make it possible for it to be transported, when necessary, to remote places where it will be operated by a radio engineer who shall be competent to qualify as an expert at any necessary hearings."

James W. Baldwin, Secretary of the Commission, declared that use of the new apparatus should result both in increased efficiency and economy in the conduct of radio hearings. In lieu of sending out for affidavits in support of complaints against particular stations under investigation, he explained that recordings will be made, providing a complete report on the particular station's activity, at a fraction of the cost of hiring stenographic reporters. In several instances the cost of stenographic transcriptions, he said, has equalled or exceeded the cost of the apparatus itself.

Dr. C. B. Jolliffe, Chief Engineer of the Commission, emphasized the value of such a device in the gathering of evidence. Any station that can be received with satisfactory quality may have its programs recorded for possible future use by the Commission on matters affecting its renewal of license in the public interest, he said.

It was explained that special needles must be used to successfully record and reproduce a record. Records can be reproduced immediately after the recording has been completed on an instrument having the speed of 33-1/3 revolutions per minute.

In addition to Acting Chairman Sykes, Chief Engineer Jolliffe, and Secretary Baldwin, other Commission officials who witnessed the demonstration were Acting General Counsel Duke M. Patrick, Assistant General Counsel Paul D. P. Spearman, George S. Smith, Chief, License Division, and G. Franklin Wisner, Chief, Information Section.

The demonstration was arranged and presented by Gerald K. Rudolph, Director of Publicity and Advertising of RCA Photophone; W. S. Wakem, Engineer of RCA Photophone, and J. A. Terrell, Engineer of RCA-Victor.

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RADIO USEFUL TO SMITHSONIAN INSTITUTION

Radio is the best medium available for uncovering valuable material for museums, particularly items of historical interest, Austin H. Clark, Curator of Echinoderms at the Smithsonian Institution, at Washington, D. C., declared in a statement this week.

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SEVEN TEMPORARY LICENSES GRANTED

Issuance of temporary licenses to seven broadcasting stations for failure to arrive at time-sharing agreements as to the use of their wavelengths, or for failure to file copies of their regular operating schedules, pursuant to radio regulations, was announced this week by the Federal Radio Commission.

Stations given temporary licenses for failure to reach time-sharing agreements were WPG, Atlantic City, WLWL, New York City, and WWL, New Orleans. The temporary licenses are from August 1st, after which renewal applications will be designated for hearing.

Stations given temporary licenses from August 1st for failure to file copies of their regular operating schedules in accordance with General Order No. 105, are KMO, Tacoma, Washington; KFVD, Culver City, Calif., KMPC, Beverly Hills, Calif., and KWJJ, Portland, Oregon. These stations also will be designated for hearing on renewal applications.

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HOLDS PRESS NEED NOT FEAR RADIO

Harold H. Anderson, an associate of Dr. George H. Gallup in newspaper research, declared at the recent Southern Publishers' convention in Asheville, N. C., that a survey had been made of interest in radio programs in metropolitan centers at 7 o'clock in the evening, when a prominent feature was being broadcast.

By personal call and by telephone in separate tests, the investigators determined that 79 per cent of all households called upon were home at the time, that 85 per cent of those at home owned radio sets, that 47 per cent of the set owners were listening at the moment, but that only 35 per cent of those listening could identify the station, the program, or the sponsor.

Newspapers, he said, had little to fear from the radio as a competitor. While it was undoubtedly suited to the advertising of certain firms, its general applicability as an advertising medium was doubtful, and that publishers could without difficulty determine for themselves the amount of "blue sky" being claimed by local broadcasters in their assertions of local coverage.

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SPECIAL ANTENNA FOR 33-STORY BUILDING

Arrangements for the installation of a special antenna receiving system for the operation of radio receivers in each of the 425 offices in a modern 33-story building now under construction at Philadelphia for the Philadelphia Saving Fund Society, have just been completed, according to the RCA Victor Company, Inc.

The new structure will be the first large office building in the United States to make such elaborate provision for modern radio reception, according to George Cole, Manager of the Centralized Radio Section of RCA Victor.

The radio equipment will be a newly developed "Antenaplex" receiving system from the Camden Laboratories, Mr. Cole said. Two single antennae located on the roof of the building will supply antenna and ground connections from a wallplate socket to approximately 500 receiving sets of any standard type, providing equal operating efficiency for each receiver regardless of location. The new system eliminates the electrical interference usual in business districts with large steel buildings, through the use of a specially shielded, metal "Cabloy" conduit scarcely a quarter of an inch in diameter.

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APPEALS FILED BY WFI AND WSPA

An appeal from a recent decision of the Federal Radio Commission refusing the application of Radio Station WFI for modification of its license to increase its power from 500 to 1000 watts has just been filed in the Court of Appeals of the District of Columbia by Methuel M. Webster, Jr., and Paul M. Segal, attorneys for Strawbridge & Clothier, of Philadelphia, Pa., owners of the station.

The appeal claims that the Commission erred in not granting the application, and states that no one opposed the application during the hearings before the Commission. Pennsylvania is an underquota State in an underquota Zone, according to the appeal.

Notice of appeal of the recent decision of the Radio Commission in which Radio Station WSPA, at Spartansburg, S. C., was denied its application for 500 watts power on 590 kilocycles, unlimited time, also has just been filed in the Court of Appeals of the District of Columbia.

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: BUSINESS LETTER BRIEFS :
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The Kentucky Press Association at its recent convention named a committee to investigate radio and its competition with newspapers. The committee will report at the Winter meeting.

Klau-Van Pieterston-Dunlap Associates, Inc., of Milwaukee, has been selected by the Zenith Manufacturing Corporation to direct its advertising.

The Cincinnati Post has taken over operation of WFBE, lowest-powered station in the Queen City. Bod Segal has been made temporary manager. The Post is understood to hold an option for purchase of station after a reasonable period of experimentation.

Erwin Wasey & Co., of Chicago, will handle the national radio broadcasting for Montgomery Ward & Company, which started July 1st over NBC coast-to-coast network.

The Oregon Editorial Association at its recent convention adopted a resolution declaring that radio programs should be run as paid advertising instead of news.

The Crosley Radio Corporation of Cincinnati, on July 8th filed with the Federal Radio Commission an application for a new television station to be located at Cincinnati with 1,000 watts power. The channel requested is that of 2100 to 2200 kilocycles. The company now operates broadcasting stations WLW and WSAI, in Cincinnati.

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NBC ACQUIRES WALDORF-ASTORIA RIGHTS

Exclusive broadcasting rights on all music and functions of public interest sponsored by the New Waldorf-Astoria Hotel, which is to open on October 3rd, were acquired by the National Broadcasting Company in negotiations completed yesterday between M. H. Aylesworth, President of the radio network, and Lucius Boomer, President of the hotel corporation. Daily broadcasts of orchestral music and Sunday programs or organ recitals are planned. Meetings of general interest held there and talks by prominent persons will also be transmitted nationally over the NBC networks.

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PERRYMAN OFFERS THREE NEW TUBES

In response to a growing demand for more efficient radio tubes, to be employed in battery operated receivers, especially those designed for broadcast reception aboard motor boats, the Perryman Electric Company has presented three new tubes. These tubes are known as types P236, P237 and P 238 and have been especially designed to meet the requirements which motor boat, auto and portable radio receivers will place upon them.

The P236 is a type of screen grid, the P238, a pentode amplifier, and the third, the P237, a general purpose tube. These one-quarter ampere tubes draw six volts and are of the indirect heater type. They have been ruggedly designed so that their construction will off-set the vibration which is inherent to most mediums using portable battery operated receivers.

Joseph D. R. Freed, President of the Perryman Electric Company, in making the announcement of the new tubes, pointed to the fact that over sixty percent of the inboard motor boats now being shown at local yacht clubs and motor boat show rooms, feature special radio equipment and in most cases, built-in aerials.

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PLANS AUTOMATIC SOS ALARMS

Development of automatic radio distress alarms for use on the seas in both submarine and surface craft is the aim of the Submarine Signaling Co., which yesterday filed with the Federal Radio Commission an application for authority to conduct practical air tests of apparatus it has developed.

In the application, T. R. Madden, of Boston, president of the company, explained that the 15-watt transmitter sought would be used to test automatic distress radio apparatus under actual operating conditions. Four experimental channels of 1664, 2398, 3256 and 4795 kilocycles are requested.

"This company", he stated, "is engaged in the manufacture and development of sonic and radio aids to navigation, particularly of automatic radio distress alarms. In order to perfect this equipment upon which the safety of life at sea may often be dependent, it is necessary to test it under actual operating conditions. These conditions cannot be satisfactorily simulated in the laboratory.

"We therefore believe that the operation of the proposed station will be in the public convenience, interest and necessity, and promote the safety of life at sea by furthering the development of radio distress alarms and other navigational aids."

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APPLICATIONS RECEIVED BY FEDERAL RADIO COMMISSION

July 8 - WAAM, Inc., Newark, N. J., C. P. to make changes in equipment; WMAK, Buffalo Broadcasting Corp., Buffalo, N. Y., voluntary assignment of license to Niagara Falls Broadcasting Corp., C. P. to move transmitter and studio to Niagara Falls, make changes in equipment, change power from 1 KW to 500 w.; North Mississippi Broadcasting Corp., Texarkana, Ark., C. P. to erect new station to use 1,200 kc., 100 w., daytime, facilities to be withdrawn from WDIX, C. P. to move transmitter and studio from Tupelo, Miss., to Greenville, S. C., change frequency from 1500 kc., to 1310 kc., and hours of operation from Unlimited to daytime; WKBH, WKBH, Inc., Lacrosse, Wis.; modification of license amended to request simultaneous operation with KSO until 6 P.M., dividing time thereafter instead of until 7 P.M.; KSEI, KSEI Broadcasting Association, Pocatello, Idaho, C. P. to make changes in equipment; KWG, Portable Wireless Telephone Co., Stockton, Calif., license to cover C. P. granted March 13, 1931, for changes in equipment; KFXV, Mary M. Costigan, Flagstaff, Ariz., voluntary assignment of C. P. and license to Albert H. Schermann.

Applications, Other Than Broadcasting

W2XDJ, Bell Telephone Laboratories, Inc., Ocean Township, N. J., renewal of special experimental license for 3422.5, 4752.5, 6755, 8560, 9170, 9750, 9870, 12840, 13390, 10550, 14470, 14590, 16270, 18340, 19220, 19820, 21060, 17120, 21420 kc., 25 KW; W2XDG Same Co., and location, renewal for 4752.5, 6755, 8560, 9170, 9750, 9870, 12840, 13390, 10550, 14470, 14590, 16270, 18340, 19220, 21060, 17120, 21420, 3422.5, 19820 kc., 5 KW, experimental (special);

W3XAG, Police Department, Baltimore, Md., license covering C. P. for 1712, 2416 kc., 50 w., special ~~experimental~~, for test purposes; Submarine Signal Company, Boston, Mass., new C. P. for 1604, 2398, 3256, 4795 kc., 15 w., experimental service; The Crosley Radio Corp., Cincinnati, Ohio, new C. P. for 2100 to 2200 kc., 1 Kw., visual broadcasting.

KGPM, City of San Jose, Police Dept., San Jose, Calif., modification of C. P. for extension of C. P. period from 6/9/31 to 12/9/31, police service; WAA, Radiomarine Corp. of America, Detour, Mich., modification of license for additional frequency of 6440 kc., coastal service; WOX, New York Telephone Co., Staten Island, N. Y., modification of C. P. for authority to operate station by remote control; KRD, Aeronautical Radio, Inc., Pasco, Wash., C. P. to install new transmitter on 3160, 3166, 3172, 3178, 5570, 5660 kc., 400 watts, aeronautical service; KGWV, Fox Film Corp., portable in Hollywood, Cal., renewal of license for 1552, 1554, 1556 kc., 250 watts, motion picture service; WPEC, City of Memphis, Police Dept., Memphis, Tenn., modification of C. P. for change in location locally; Mackay Radio & Telegraph Co., near Las Vegas, Nevada, new C. P. for 4410, 6815 kc., 500 watts, public point to point service; KUB, Alaska Packers' Association, permanently moored vessel, Kvichak River, Alaska, license covering C. P. for 274 kc., 50 watts, limited public service.

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DECISIONS OF THE FEDERAL RADIO COMMISSION

The following decisions of the Federal Radio Commission on pending miscellaneous applications, were made available July 8th, subject to ratification by the full Commission when it reconvenes in September:

Applications Granted

WPD, George Collins Warner, Jr., Tampa, Fla., modification of license to authorize remote control operation of the transmitter from the licensee's home, Tampa, Fla., in conformity with G. O. 113; WSC, Radiomarine Corp. of America, Tuckerton, N. J., modification of license to authorize transmission on the frequency 11185 kc., instead of one of the present licensed frequencies 13210 kc.; WSBN, American Telephone & Telegraph Co., "Leviathan", modification of license to authorize transmission on the frequency 13210 kc., instead of on one of the present licensed frequencies 13260 kc.; WDAE, Tampa Publishing Co., Tampa, Fla., C. P. to make changes in equipment; WGN, WLIB, The Tribune Co., Chicago, Ill., C. P. to construct an auxiliary transmitter at same location as regular transmitter (Villa Road, about 4 miles east of Elgin, Ill.), power of aux. 1 KW; KFSG, Echo Park Evangelistic, Los Angeles, Calif., C. P. to make changes in equipment; WKAR, Michigan State College, East Lansing, Mich., C. P. to make changes in equipment to conform to requirements of General Orders 111, 115, 116.

Also, KPJM, A. P. Miller, Prescott, Ariz., modification of C. P. to move transmitter and studio locally; WCAP, Radio Industries Broadcast Co., Asbury Park, N. J., license to cover C. P. 1280 kc., 500 w., shares with WOAX and WCAM; WSAZ, WSAZ, Inc., Huntington, W. Va., license to cover C. P. 580 kc., 250 w., shares with WOBU; WLIT, Lit Brothers, Philadelphia, Pa., license to cover C. P. 560 kc., 500 w., shares with WFI; WWSW, William S. Walker, Pittsburgh, Pa., license to cover C. P. 1500 kc., 100 w., unlimited time; WOS, Missouri State Marketing Bureau, Jefferson City, Mo., license to cover C. P. 630 kc., 500 w., shares with KFRU and WGBF; KFGQ, Boone Biblical College, Boone, Iowa, license to cover C. P. 1310 kc., 100 w., shares with KFJY and KWGR; KXA, American Radio Telephone Co., Seattle, Wash., license to cover C. P. 570 kc., 500 w., unlimited time.

Also, KSOO, Sioux Falls Broadcast Association, Inc., Sioux Falls, S. Dak., modification of license to increase operating power from 2 KW to 2½ KW; WSVS, Seneca Vocational High School, Buffalo, N. Y., permission to suspend operation of WSVS until September 15, 1931; WEW, St. Louis University, St. Louis, Mo., permission to suspend broadcasting all programs, except Government reports, during months of July and August; KHVB, Crosley Radio Corp. (Chambers), NC-982-Y, granted, for period of 60 days, authority to install and test a 50-w telephone transmitter on board airplane NC-982-Y, belonging to Mr. Powel Crosley; WRBJ, Woodruff Furniture Co., Inc., Hattiesburg, Miss., voluntary assignment of license to W. E., F. E., and P. L. Barclift and J. H. Harbour, doing business as Hattiesburg Broadcasting Co.

Applications Granted Other Than Broadcasting

Aeronautical Radio, Inc.: at Fort Wayne, Ind., C. P. 3082, 3088, 5510 kc., 400 w., unlimited except day only 5510 kc.; at Charleston, S. C., C. P. 3070, 3076, 5690 (mobile), 4164, 6320 (fixed) 300 w., unlimited except day only 5690 and 6320 kc.; at Memphis, Tenn., C. P. 3238, 3244, 3452, 3460, 3468, 3484, 5600, 5630 kc., 400 w., unlimited except day only on 5600, 5630 kc., (mobile), 6260, 6275, day only (fixed); KGUT, Robertson, Mo., modification of C. P., change frequency from 3238, 3452, 3460, 3468, 3484, 5600, 5630, 2344, 4140 kc., to 3244, 3238, 3452, 3460, 3468, 3484, 4915 (mobile), 2326, 2344, 4140, 6260, 6275 (fixed), change in emission and change in time from unlimited, except day only on 5600, 5630 kc., to unlimited, except day only on 4915, 6260, 6275 kc.; WSDG, Chicago, Ill., modification of C. P., change frequencies from 2326, 2344, 4140, 6260, 6275, 3452, 3460, 3468, 3484, 5600 kc., to (mobile) 3239, 3244, 3452, 3460, 3468, 3484, 4915; (fixed) 2326, 2344, 4140, 6260, 6275 kc., and change time from unlimited except day only on 6260, 6275, 5630 kc., to unlimited except day only on 4915, 6260, 6275 kc.; WEEN, Linden, N. J., license covering C. P. 3070, 3076, 5690 kc., 350 w.

Also, WPD, George Collins Warner, Jr., Tampa, Fla., license for marine relay service, 500, 5525, 438, 8630 kc., 200 and 500 w., unlimited, every day of week, hours from 6 A.M. to 6 P.M.; Ford Motor Co., license for transmitter now installed in Airplane NC-3041, licensed experimentally under the call W8XA, 3106 kc., 50 w.; RCA Communications, Inc.: KQH, Kuhuku, T. H., license to cover C. P., 19020 kc., 80 KW, unlimited; WGX, San Juan, P. R., license to cover C. P. 6890 kc., 80 KW, unlimited; WGO, Radiomarine Corporation of America, Chicago, Ill., license covering C. P. 410, 425, 454 kc., 50 w., unlimited; KUL, Alaska Packers' Association, Pilot Point, Alaska, license to cover C. P. 500, 460, 246, 272 kc., 100 w., 6 hours daily for a period of 4 months during fishing season; KUD, Same Co., Becharof, Alaska, license to cover C. P. 246, 272, 500, 460 kc., 100 w., six hours daily for a period of 4 months during the fishing season; KHB, Same Co., Kvichak, Alaska, license to cover C. P. 246, 272, 460 and 500 kc., 50 w.

Also, KNJ, Northwestern Fisheries Co., Nushagak, Alaska, license to cover C. P. 272, 256, 500, 425 kc., 200 w., unlimited; Libby, McNeill & Libby: KMF, Egegik, Alaska, KNO, Nushagak, Alaska, KMG, Ekuk, Alaska, licenses to cover C. P. 3184 kc., 100 w., unlimited; KMT, Libbyville, Alaska, license to cover C. P. 3184, 250 w., unlimited; also license to cover C. P. 219, 256, 272, 500, 425 kc., 200 w., unlimited; KVV, Hoggiung, Alaska, and KML, Lockanok, Alaska, license to cover C. P. 3184 kc., 50 w., unlimited.

Granted Renewals Of Licenses

KDKA, Westinghouse Electric & Manufacturing Co., Pittsburgh Pa.; KEX, Western Broadcasting Co., Portland, Oreg.; KFBI, The Farmers & Bankers Life Insurance Co., Milford, Kans.; KFEQ, Scroggin & Co., St. Joseph, Mo.; KFI, Earle C. Anthony, Inc., Los Angeles, Calif.; KGDM, E. F. Peffer, Stockton, Calif.; KGO, National Broadcasting Co., Inc., San Francisco, Calif.; KJR, Northwest Broadcast System, Inc., Seattle, Wash.; KTHS, Hot Springs Chamber of Commerce, Hot Springs, National Park, Ark.; KMMJ, The M. M. Johnson Co., Clay Center, Nebr.; KNX, Western Broadcast Co., Hollywood, Calif.; KOA, National Broadcasting Co., Inc., Denver, Colo.; KPO, Hale Bros. Stores, Inc., and The Chronicle Publishing Co., San Francisco, Calif.; KRLD, KRLD Radio Corp., Dallas, Texas; KSL, Radio Service Corporation of Utah, Salt Lake City, Utah; KVOO, Southwestern Sales Corp., Tulsa, Okla.; KYW-KFKX, Westinghouse Electric & Manufacturing Co., Chicago, Ill.; WAAW, Omaha Grain Exchange, Omaha, Nebr.

Also, WABC-WBOQ, Atlantic Broadcasting Corp., New York, N.Y., WAPI, Alabama Polytechnic Institute University of Alabama and Alabama College, Birmingham, Ala.; WBAL, Consolidated Gas Electric Light & Power Co., Baltimore, Md.; WBT, Station WBT, Inc., Charlotte, N. C.; WBZ, Westinghouse Electric & Manufacturing Co., Boston, Mass., WBZA, Westinghouse Electric & Manufacturing Co., Boston, Mass.; WCAU, Universal Broadcasting Co., Philadelphia, Pa.; WCAZ, Superior Broadcasting Service, Inc., Carthage, Ill.; WCFL, Chicago Federation of Labor, Chicago, Ill.; WDZ, James L. Bush, Tuscola, Ill.;

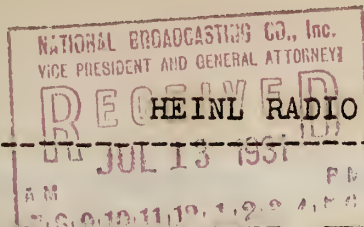
Also, WEAF, National Broadcasting Co., Inc., New York, N.Y., WEW, The St. Louis University, St. Louis, Mo.; WFAA, Dallas News and Dallas Journal, Dallas, Tex.; WGBS, General Broadcasting System, Inc., New York, N. Y.; WGN-WLIB, The Tribune Co., Chicago, Ill.; WGY, General Electric Co., Schenectady, N. Y.; WHB, WHB Broadcasting Co., Kansas City, Mo.; WHDH, Matheson Radio Co., Inc., Boston, Mass.; WHO, Central Broadcasting Co., Des Moines, Iowa.; WJR, WJR, The Goodwill Station, Inc., Detroit, Mich.; WJZ, National Broadcasting Co., Inc., New York, N. Y.; WMAQ, WMAQ, Inc., Chicago, Ill.; WMBI, The Moody Bible Institute Radio Station, Chicago, Ill.; WOAI, Southern Equipment Co., San Antonio, Texas; WOC, Central Broadcasting Co., Davenport, Iowa.

Also, WPCH, Eastern Broadcasters, Inc., New York, N. Y.; WPTF, Durham Life Insurance Co., Raleigh, N. C.; WRUF, University of Florida, Gainesville, Fla.; WRVA, Larus & Bro. Co., Inc., Richmond Va.; WSB, Atlanta Journal Co., Atlanta, Ga.; WSM, The National Life & Accident Insurance Co., Nashville, Tenn.; WTAM, National Broadcasting Co., Inc., Cleveland, Ohio; WTIC, The Travelers Broadcasting Service Corp., Hartford, Conn.; WENR-WBCN, National Broadcasting Co., Chicago, Ill., (temporary - subject to outcome of WTMJ); WLS, Agricultural Broadcasting Co., Chicago, Ill. (temporary - subject to outcome of WTMJ); WOWO, The Main Auto Supply Co., Fort Wayne, Ind.; WRAX, WRAX Broadcasting Co., Philadelphia, Pa.; WHAM, Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.; WJAG, The Norfolk Daily News, Norfolk, Nebr.

Applications Designated For Hearing

John Wilbur Jones, Newburgh, N. Y., C. P. 1390 kc., 100 w., unlimited time, requests facilities of WCCH, WLCI and (or) WGBB; Weber Jewelry & Music Co., St. Cloud, Miss., C. P. 1500 kc., 50 w., to share time with KGFK; Berkshire Broadcasting Service, Pittsfield, Mass., C. P. 1310 kc., 100 w., unlimited time; KGBX, KGBX, Inc., St. Joseph, Mo., requests authority to increase operating power from 100 w., to 100 w. night and 250 w., local sunset, for increase in day power applicant requests the facilities of KFEQ; WGI, Fred C. Zieg (Allen-Wayne Co.), Ft. Wayne, Ind., requests authority to increase operating power from 100 w., to 100 w. night and 250 w. local sunset, requests facilities of KTNT in terms of units.

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JULY 9, 1931.

PATENTS, PATENT SUIT, TRADE-MARKS, AND DESIGNS

The following patents were granted during the week ending July 7, 1931:

- 1,812,867. Radio Loud Speaker. Charles Hugh Duffy, Miami, Fla. Filed April 25, 1930.
- 1,812,957. Electrically Operating Sound Recorder and Reproducer. Charles Huenlich, Bloomfield, N. J., assignor to Thomas A. Edison, Inc., West Orange, N. J. Filed November 3, 1928.
- 1,812,977. Oscillation Generator. Russell S. Ohl, New York, N. Y., assignor to American Telephone and Telegraph Co. Filed November 25, 1925.
- 1,812,998. Resonance Attachment for Sound Reproducing Devices. Arno E. Tauscher and Benno E. Schultze, Chicago, Ill. Filed March 20, 1930.
- 1,813,036. System of Neutralization. Harold F. Elliott, Palo Alto, Calif., assignor, by direct and mesne assignments, to Victor Talking Machine Company, Camden, N. J. Filed March 11, 1927.
- 1,813,051. Amplifier Circuits. Herman Hollerith, Jr., Riverton, and Almon N. Fenton, Audubon, N. J., assignors to Victor Talking Machine Company. Filed May 14, 1925.
- 1,813,054. Wireless Receiving System. Charles T. Jacobs, East Orange, N. J., assignor to Splitdorf Radio Corporation, Newark, N. J. Filed April 12, 1928.
- 1,813,067. Thermionic Amplifier System. Byron B. Minnium, Chicago, Ill., assignor, by mesne assignments, to Story & Clark Radio Corp., Chicago, Ill. Filed March 18, 1926.
- 1,813,137. Radio Frequency Coil. Alfred E. Baumann, Milwaukee, Wis. Filed November 25, 1925.
- 1,813,143. Aerial System. Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Inc., New York, N. Y. Filed November 25, 1927.
- 1,813,166. Talking Machine Recorder. Theodor Kahn, Berlin-Charlottenburg, Germany. Filed November 30, 1929, and in Germany November 27, 1928.
- 1,813,180. Radio Receiving Apparatus. Percival D. Lowell, Jamaica, N. Y., assignor to A. H. Grebe & Co., Inc., Richmond Hill, N. Y. Filed July 16, 1927.

- 1,813,194. Radio Apparatus. John N. Nordlund, Detroit, Mich.
Filed May 4, 1925.
- 1,813,204. Radio Photography Transmitter. Virgil Adolf Schoenberg,
Niles, Center, Chicago, Ill. Filed August 1, 1929.
- 1,813,208. Acoustic Device. Edwin H. Smythe, Evanston, Ill.,
assignor to Western Electric Company, Inc., New York,
N. Y. Filed November 26, 1926.
- 1,813,216. Radiographic Timing Apparatus. Wilbur S. Werner,
Covington, Ky., assignor to The Kelley-Koett Manufacturing
Co., Covington, Ky. Filed July 12, 1927.
- 1,813,232. Receiving Circuit. Hiram D. Currier, Chicago, Ill.,
assignor to Kellogg Switchboard & Supply Company, Chicago,
Ill. Filed April 30, 1925.
- 1,813,241. Thermionic Tube. Earl L. Koch, Chicago, Ill., assignor
to Kellogg Switchboard and Supply Co., Chicago, Ill.
Filed April 9, 1926.
- 1,813,334. Audion Circuit Battery Control. Franklyn J. Wolff,
Trenton, N. J. Filed June 26, 1926.
- 1,813,461. Piezo Electric Crystal Apparatus. Alexander McLean
Nicolson, New York, N. Y., assignor, by mesne assignments
to Federal Telegraph Company. Filed December 20, 1926.
- 1,813,469. Frequency Multiplication System. Albert H. Taylor,
Washington, D. C., assignor to Wired Radio, Inc., New
York, N. Y. Filed December 22, 1928.
- 1,813,472. Automatic Phonograph. Ferdinand J. Tillman, St. Louis,
Mo. Filed December 22, 1919.
- 1,813,483. Automatic Brake for Talking Machines. George Frederick
Clark, West Drayton, England, assignor to Victor Talking
Machine Co. Filed May 10, 1930, and in Great Britain
June 24, 1929.
- 1,813,488. Oscillatory Circuits and Method of Compensating for
Voltage Changes Impressed Thereon. Robert F. Field,
Watertown, Mass., assignor to Atlantic Precision
Instrument Company, Boston, Mass. Filed October 21, 1927.
- 1,813,541. Circuit Control System for Radio Apparatus. Charles C.
Lauritsen, St. Louis, Mo., assignor, by direct and mesne
assignments, to Colin B. Kennedy, Inc., St. Louis, Mo.
Filed May 7, 1925.

- 1,813,563. Radio Signalling. Louis Cohen, Washington, D. C., Filed July 18, 1928.
- 1,813,588. Member or Structure Vibrated By Energy Impulses. Floricel A. Stapler, Philadelphia, Pa., assignor to Victor Talking Machine Company. Filed October 10, 1928.
- 1,813,593. Electrical Device. Frank Willett Walton, East Orange, N. J., assignor to Westinghouse Lamp Company. Filed January 6, 1927.
- 1,813,673. Stereoscopic Telemeter. Joseph Mihalyi, Rochester, N. Y. Filed March 12, 1928.
- 1,813,681. Method and Apparatus for Sound Reproduction. Otto Sandvik, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y. Filed March 21, 1930.
- 1,813,688. Transmitter Plate Potential Equalizing Circuit. Rudolf Urtel, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m.b.H., Berlin, Germany. Filed January 28, 1929, and in Germany March 26, 1928.
- 1,813,724. Radio Receiving Set. August A. Beste, Virginia, Minn. Filed May 6, 1927.
- 1,813,775. Means for Preventing Retroactive Effects in Audion Amplifier Circuits. George A. Somersalo, New York, N.Y. Filed January 27, 1927.
- 1,813,855. Electrostatical Vibration Structure. Ernst Klar, Berlin, Germany, assignor, by mesne assignments, to United Reproducers Patents Corporation. Filed May 21, 1927, and in Germany, May 21, 1926.

Patent Suit

- 1,173,079. E. F. Alexanderson, Selective tuning system; 1,195,632, W. C. White, Circuit connections of electron discharge apparatus; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,297,188, I. Langmuir, System for amplifying variable currents; 1,728,879, Rice & Kellogg, Amplifying system, filed May 5, 1931, D. C., S. D., Calif. (Los Angeles), Doc. E T-116-J, Radio Corporation of America, et al. V. Platt Music Co.

Trade-Marks

- Ser. No. 313,328. The Carbon Products Co., Lancaster, Ohio. Filed April 14, 1931. Trade-Mark; "WINNER" for dry cells and batteries, etc. Dry "A", "B", "C" Batteries for Radio; Dry Cells for Radio, ignition and telephones, etc. Claims use since September 12, 1928.
- Ser. No. 314,660. Silver-Marshall, Inc., Chicago, Ill. Filed May 16, 1931. "BEARCAT" for Radio Receiving Sets, kits for radio receiving sets, electric pick-ups for phonographs, and accessories and parts, consisting of aerials, battery eliminators, binding posts, chokes, coils, coil sets, condensers, dials, grid leaks, jacks, loud speakers, panel boards, potentiometers, radio amplifying units, radio rectifying units, rheostats, shields, transformers, electron tubes, tube sockets, tuning units, choke coils and wire and cable for radio sets and apparatus. Claims use since April 30, 1930.

Trade-Mark Registration Granted

- 284,571. Radio Tube Testers. Kinney Bros. & Sipprell, Everett, Wash. Filed December 22, 1930, Published April 28, 1931.

Designs

- 84,592. Radio Cabinet or Similar Article. George J. Pike, Grand Rapids, Mich., assignor to General Motors Radio Corporation, Dayton, Ohio. Filed May 8, 1931. Term of patent $3\frac{1}{2}$ years.
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