

### Titanic Disaster Emphasized Need for Constant Radio Watch at Sea

When, in 1912, the Titanic, then the largest ship in the world, crashed into an iceberg some eight hundred miles from land, seven hundred—less than a third—of the passengers were saved through the medium of radio, but few are aware how fortunate the survivors were. In those days the regulations regarding radio on ships were not nearly as strict as they are nowadays, and it was by the narrowest chance that the operator aboard the Carpathia, the rescuing ship, heard the Titanic's distress signal. Carl Dreher, reflecting on this disaster in the December Radio Broadcast magazine, says:

Had he taken off the phones and grounded his antenna a few minutes earlier, the Carpathia would have continued tranquilly on her course while 2900 people were perishing 60 miles away. The necessity of a continuous watch by two or more operators was impressed on everyone."

#### Better B Battery Eliminators This Fall

New Rectifier Tube, Cheap, Simplifies Filtering Problem as Average Broadcast Listener Is in Doubt as to Type.

"Great as the service of radio proved on this occasion, luck and uncertainty played too great a part in what followed the collision of the ship and the iceberg. This Titanic carried an adequate transmitting set, with a day range of more than 400 miles and night range which carried her cry of distress far over the sea, and yet she might easily have been missed altogether by the Carpathia, the one ship near enough to give quick assistance. It was also rumored at the time that one freighter, unequipped with radio, was even closer and might have taken off passengers who could not find a place in the lifeboats and whose lives ended shortly in the cold water. The fact was that the Carpathia's operator, H. T. Cottam, was going to bed before the Titanic crashed her nose on the iceberg, and it was only by chance, or if you please, the intervention of providence, that he stayed up a little longer to get off some messages, and heard the Titanic CQD buzzing into his headphones, at 12:35 in the morning. Cottam already had his coat off,

"Batteries eliminators generally consist of three elements: A transformer to convert the 110 volt a. c. supply to the required voltage; a rectifier which converts the a. c. into pulsating d. c.; and filter circuit which smooths out the irregularities of the rectified voltage into a uniform d. c.," writes Roland F. Beers in Radio Broadcast magazine for December.

"So much has been published in the last six months with regard to B battery substitutes that the average broadcast listener is in doubt as to what type will give him the most satisfaction. It is natural that certain prevailing types of eliminators will be suited for particular types of receivers, while they are entirely suitable for use on others," declares Mr. Beers. "In order to make an intelligent choice between these various designs, the broadcast listener has had to try out one after another until he has obtained satisfaction. Even after a comparatively thorough test, he may find that the short life of the rectifier elements will cause an

expense equal to that of maintaining B batteries.

"The study and development underlying the design of eliminators that are appearing this fall, have brought forth new facts which are extremely important for the attainment of high quality performance. Many weaknesses were present in the designs of last year's models; the research of twelve months has succeeded in building up units of recognized quality.

"Perhaps the most important of recent developments along this line is the invention of the new Raytheon rectifier tube. In the construction of this tube, two anodes are provided, so that the tube rectifies both halves of the alternating current wave. This feature is of first importance because it greatly simplifies the problem of filtering to obtain a pure d. c. supply."

#### SAILOR GETS BROADCAST TUNES IN ON WOK OVER ITS LOW WAVELENGTH

CHICAGO—In the thousands of miles that Lawrence Aber, 21, Miller street, Trenton, N. J., traveler from California to New York, via the Panama canal, there was not one night in which he

failed to tune in Radio Station WOK, broadcasting from Chicago on its low wavelength of 237.3 meters. Mr. Aber sent the following report of this remarkable reception to the station director:

"As a sailor I wish to report that you come in fine, thousands of miles at sea. Never lost you a night from Los Angeles to New York City on oil tanker, via Panama. No interference on your wave."

**Radio Club Assists Show**  
MINNEAPOLIS, Minn.—The Twin Cities Radio club, a joint organization of transmitting radio amateurs of this city and St. Paul, served in a tremendously helpful capacity during the recent twin cities radio show recently, when during the course of the show they handled over 700 messages from patrons of the show. These messages were started on their way to all parts of the United States via the medium of American radio relay league member stations. The twin cities club is allied with the

#### Use Choke-Coupled Amplification

Much has been written during the past few months of the advantages and disadvantages of resistance-coupled audio frequency amplification, and generally it has been agreed that the quality obtained from such an amplifier is an improvement over that obtainable from most transformer-coupled amplifiers. Describing a new receiver in the December Radio Broadcast magazine, H. W. Browning, of Browning-Drake fame, advocates the use of choke, or impedance coupled stages, for the audio amplification. He says that two stages of transformer-coupled amplification will undoubtedly give sufficient volume, if transformers of approximately 4:1 ratio are employed, but in these days, when most fans are veritable sticklers for quality and that old war cry of DX at all costs (including quality) has been dropped, something better is wanted. This is to be found in

impedance coupling. Mr. Browning claims: "To quote his own words, 'three stages of impedance-coupled amplification has as good quality as resistance, and, if properly built and operated, gives greater volume and does not require an abnormal B battery voltage.'"

The latter point, that of B battery voltage, is the main disadvantage of resistance coupled amplification, for it is often necessary to increase this potential to a figure in excess of 150 volts before optimum results, as regards volume, are obtained. With impedance coupling we seem to overcome the necessity for this expensive increase. With an impedance amplifier the use of high-Mu tubes is advocated to get the most out of it. Mr. Browning suggests the use of two equivalent high-Mu 20 tubes in the first two stages of the amplifier while a Daven Mu 6 is recommended in the third and last stage.

#### New Radio Principle Used in Flood

NEW YORK—A hitherto little discussed but vastly important aspect of proposed wave-length changes was brought up at the national radio conference in Washington and is now engaging the attention of the radio industry. It was to this effect: That opponent manufacturers were active proponents for alterations in the broadcasting wave bands to permit broadcast stations to use as low as 150 meters—and that the whole process of stabilization in the radio industry would have been most seriously damaged if the idea had gained endorsement.

Work With Army Signal Corps  
WASHINGTON, D. C.—The American radio relay league has been designated by the chief signal officer of the United States army as the organization to officially represent the American transmitting radio amateur in the forthcoming organization of army-amateur radio communication nets throughout the country. This move follows upon the general staff approval of the plan which eventually is to provide an amateur radio station for each unit of the national guard and organized reserve from battalions up through divisions.

Just think, first of all, what it would mean in the virtual scrapping of 5,000,000 sets," Mr. Freed exclaimed. "Thousands upon thousands of families have purchased receivers within the last year, and I need not dwell on the injury to them that would be brought about by a quick change in broadcast wave lengths. It is easy to load receivers for higher wave-lengths but very difficult to provide for the reception of low wave-lengths, meaning that nearly all the sets would have to be discarded."

If only philanthropists would give it back to the same people they took it from.—Roanoke World-News.

#### Radio Programs Today

- Best Features Throughout the Country Tonight
- Sunday, December 6, 1925
- 1:00 p. m.—KPRC (238.9) Houston. Bill memorial exercises.
- 2:00 p. m.—WJLB (122.3) Springfield. Holy Cross college program.
- 8:15 p. m.—WEAP (491.5) New York. Marie Kuzmko soprano and Felte Rainold, violin, cello artists, also WEAR, WCAE, WJAB, WJAB, WCAE, WBAI, WJZ, WOV, WOOO, KRL, WTAQ, WPI.
- 8:30 p. m.—WIP (448.5) Philadelphia. Little symphony.
- 8:00 p. m.—KTHM (374.5) Hot Springs. Radio Special Train.
- 8:30 p. m.—WJZ (44.5) New York. Rivet Sunday concert, also WGV.
- Far West Stations Silent Tonight
- KFOA, KLN, KFSN, KWBC.

- KFI—Los Angeles—467
- 10:00 a. m.—Church federation and science service.
- 4:30 p. m.—Music appreciation club; organ recital.
- 8:00 p. m.—Classical hour; soprano.
- 9:00 p. m.—Examiner program; Packard orchestra.
- KGO—Oakland—261.2
- 11:00 a. m.—Services, M. E. church.
- 3:30 p. m.—KGO Little Symphony orchestra.
- 7:30 p. m.—Evening services.
- 8:00 p. m.—Portland—413
- 10:15 a. m.—Church of Our Father.
- 7:35 p. m.—Presbyterian services.
- KHJ—Los Angeles—405.2
- 4:00 p. m.—Afternoon program; Arcadio orchestra.
- 7:00 p. m.—Organ recital; special program.
- KJR—Seattle—341.4
- 3:30 p. m.—Band concert.
- 7:15 p. m.—Organ recital; evening worship.
- KNX—Hollywood—356.9
- 2:00 p. m.—Musical program. (1 hour).
- 7:00 p. m.—Evening services.
- 8:00 p. m.—Ambassador orchestra; Beverly Hills nurseries.
- KOA—Denver—322.4
- 3:50 p. m.—Unity church.
- 7:00 p. m.—Organ recital.
- 6:45 p. m.—Unity church.
- KPO—San Francisco—428.3
- 6:00 p. m.—State orchestra; concert.
- 8:00 p. m.—Palace orchestra; Fairmont orchestra.

- RADIO FEATURES FOR Monday, December 7, 1925
- 9:00 a. m.—WLS (314.6) Chicago. President Coolidge, address American Farm Bureau.
- 4:00 p. m.—WJZ (122.3) Springfield. Holy Cross college program.
- 8:15 p. m.—WJLB (122.3) Springfield. Holy Cross college program.
- 8:30 p. m.—WJZ (44.5) New York. Rivet Sunday concert, also WGV.
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- CFAC—Calgary—150
- 7:00 p. m.—Dean Brothers studio program.
- KFI—Los Angeles—467
- 5:20 p. m.—Matinee program; Radiorama.
- 6:30 p. m.—Scott comedian.
- 7:00 p. m.—Soprano; violin; cello.
- 8:00 p. m.—Pen women program.
- 9:00 p. m.—Murphy Motor program.
- 10:00 p. m.—Examiner program (1 hour).
- KGW—Portland—491.5
- 9:00 p. m.—Concert.
- KGO—Oakland—261.2
- 3:00 p. m.—Musical program.
- 5:30 p. m.—Kiddies' club.
- 6:00 p. m.—Dinner concert.
- 8:00 p. m.—Educational program, music, talks.
- KJR—Seattle—341.4
- 7:00 p. m.—Sears-Roebuck program.
- 8:30 p. m.—Intelligencer Studio program.
- 9:00 p. m.—Kilbourn's dance orchestra.
- KLN—Oakland—508.2
- 4:00 p. m.—Women's hour.
- 5:00 p. m.—Aunt Elsie.
- 8:00 p. m.—Program from studio.
- 9:00 p. m.—Lake Merritt Ducks; Guest night.

- KNX—Hollywood—356.9
- 7:00 p. m.—Mirth contest.
- 7:30 p. m.—Courtesy program.
- 8:00 p. m.—Special program.
- 9:00 p. m.—Feature program.
- 10:00 p. m.—Goodrich orchestra.
- 11:00 p. m.—Cocoanut Grove orchestra.
- KOBI—State College, N. M.—348.0
- 6:30 p. m.—Musical program.
- KOA—Denver—322.4
- 5:30 p. m.—Brown Palace string orchestra.
- 6:30 p. m.—Sandman hour.
- 7:00 p. m.—Spanish instruction; music; radio bridge.
- KPO—San Francisco—428.3
- 6:30 p. m.—Towne Cryer; orchestra.
- 7:00 p. m.—Fairmont hotel orchestra.
- 8:00 p. m.—Organ recital.
- 8:45 p. m.—Health talk; musical program.
- 10:00 p. m.—State orchestra.
- KWS—Pullman—348.0
- 8:45 p. m.—Soleis; talk.
- KFSN—Pasadena—315.0
- 8:00 p. m.—Music and special features.

#### TOSCHA SEIDEL ON AIR

FAMOUS VIOLINIST APPEARS BEFORE KPO TODAY

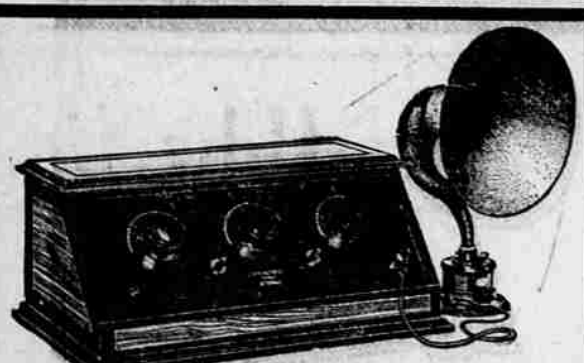
SAN FRANCISCO—Radio listeners of the west will have their first opportunity of hearing another world-famous artist on Sunday, December 6, when Toscha Seidel, violinist, appears before the microphones of the Hale Brothers Chronicle station.

The recital will be sponsored by A. Alwater Kent, who recently contracted with some thirty noted violinists and instrumentalists for a series of radio concerts during the winter. Seidel's KPO appearance will be the first of these concerts to be broadcast in the west and will mark the famous violinist's radio debut. Seidel, though but twenty-five years of age, is recognized as one of the greatest living artists of the violin and has

been playing that instrument since the age of six. He will be accompanied in his broadcast by Arthur Tappan, pianist, who has accompanied him from 9 to 10 p. m. in the west during the winter.

The broadcast will be on the air from 9 to 10 p. m. on Sunday, December 6, and is expected to be one of the most popular musical events of the winter.

"Big Brother Club" launched with the ordinary "radio club" but the "radio club" is a more serious organization, one which requires a pledge of membership and when they have completed their conditions are given a membership card and button. The "radio club" is a more serious organization, one which requires a pledge of membership and when they have completed their conditions are given a membership card and button. The "radio club" is a more serious organization, one which requires a pledge of membership and when they have completed their conditions are given a membership card and button.



### Thompson-Super Neutrodyne

Price Reduction—Now Effective

\$130.00, 5-tube model, now ..... \$94.00

\$150.00, 5-tube model, now ..... \$114.00

The price is within reach and much lower than the average phonograph.

Thompson, 5-tube set, complete—installed ..... \$147.50

\$49 Cash—\$10 a Month

These sets are absolutely guaranteed. Radio cabinets and stands \$3.00 to \$12.50.

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EIGHT tubes operated by a delicately adjusted SINGLE control! Radiola 28 will cut out a powerful station playing close to you and bring in a distant station on a near-by wave length.

The desk-type cabinet, a beautiful piece of furniture, has room inside for all dry batteries. Or if you use this set with RCA Radiola Loudspeaker Model 104, it can be operated entirely without batteries directly on the AC 110 volt lighting circuit.

Let us demonstrate this Radiola in your home. Convenient time payments arranged if desired.

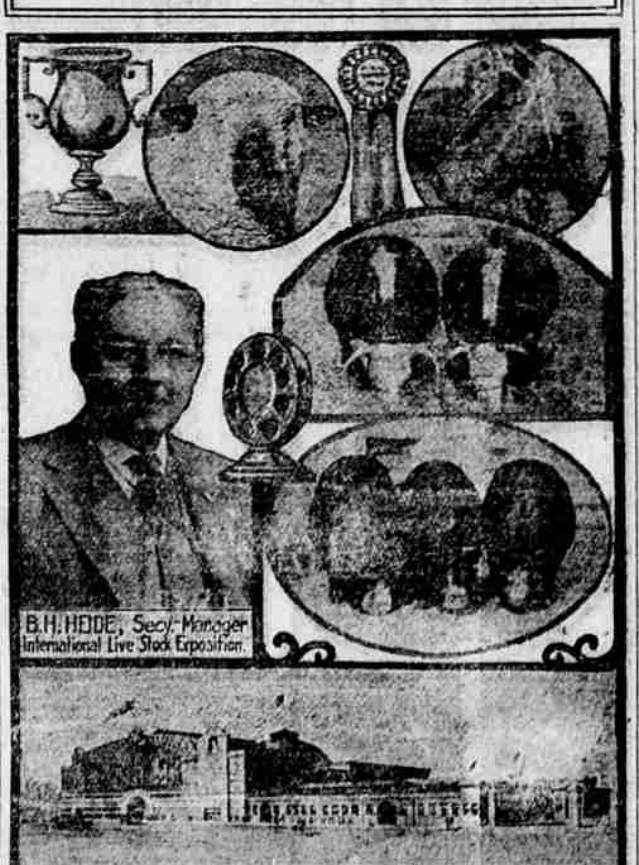
Price Complete—with batteries and speaker ..... \$316.50

**"Chet" Hemenway Radio**

"NOTHING ELSE BUT"

591 Willamette Street Telephone 2102-J

#### LIVESTOCK SHOW BY RADIO TELLS STORY OF BABY BEEF



RADIO listeners of city and country will have an opportunity November 28 to December 5 to hear the broadcasting of the International Livestock exposition, Chicago, where more than 10,000 of the finest cattle, sheep, swine and horses will be exhibited, according to B. H. Hilde, manager of the exposition. These entries will strive for the highest honors and will include the champions of state and sectional fairs of the nation. The broadcasting of every phase of this great livestock show will be done by WLS, the Sears-Roebuck Agricultural Foundation station, Chicago. Reports of the winners, daily news of the exposition and the talks of noted agricultural leaders will be sent over the air as rapidly as they take place in the arena and auditorium. One of the outstanding features of the show will be the exhibition of the Demonstration Herd assembled by the Sears-Roebuck Agricultural Foundation to show that 1,000 pounds of baby beef can be grown in one year. Baby beefs of every breed have been collected to demonstrate that this achievement is possible. Calves like those in the herd can be produced on the average farm at a dime a pound. Another striking feature will be the exhibition of a more than two-ton litter of sixteen pigs, rescued from death at the Chicago stockyards by the Foundation, to be used for educational purposes. The litter weighed exactly 4,769 pounds and came from the Rawleigh Farms at Freeport, Ill.



for grandma!

because old age is lonely time and a really fine radio is mighty good company.

**ATWATER KENT RADIO**

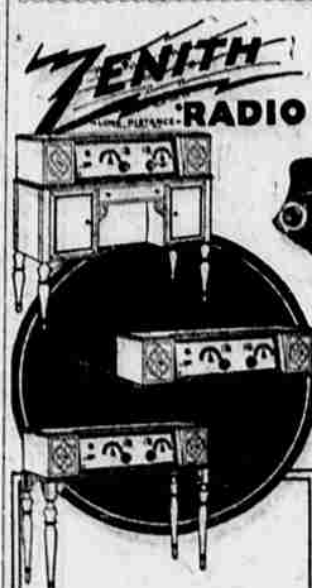
is a radio set you can always depend on for all-round performance. It is as simple to operate as a telephone. Ask us—at the store or over the phone—for a demonstration.

Model 20 Compact

**"Chet" Hemenway Radio**

"NOTHING ELSE BUT"

691 Willamette, Phone 2102-J



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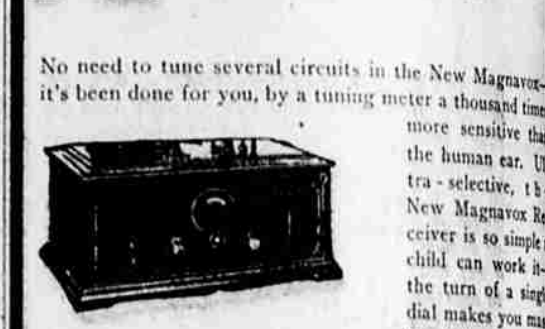
A side-by-side test with any other set on the market will quickly show you why!

Costs More—But Does More!

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### The New MAGNAVOX



No need to tune several circuits in the New Magnavox—it's been done for you, by a tuning meter a thousand times more sensitive than the human ear. Ultra-selective, the New Magnavox receiver is so simple a child can work it—the turn of a simple dial makes you master of the air.

This latest achievement of the pioneers in sound amplification has an unique "ever-new" feature—an Interchangeable Receiver Unit in all models except the Junior. Should the constant research at Magnavox laboratories result in yet further improvements in the receiver, a new unit can be installed in a moment.

New throughout—New Tubes, New Sets, remarkably rich and mellow New Speakers—the New Magnavox establishes a new high standard in radio enjoyment—ask for a Magnavox demonstration today.

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DEPENDABLE—Proven by the performance of 40,000 Tungars now in use.

VERSATILE—Without attachments it will charge all "A" and "B" radio storage batteries.

ECONOMICAL—Low initial price, low cost of operation, and long bulb life.

EASILY OPERATED—Clip it onto the battery and plug it into the lighting circuit—no adjustments to be made.

CONVENIENT—Comfortable handle and compact design make carrying easy.

SAFE—No danger of damaging the radio battery remains connected to the radio during charging.

CLEAN—Contains no materials which will pollute furniture in the auto or home.

COMPLETE—Ready for immediate use when unpacked.

BEAUTIFUL—A suitable companion for the finest radio set.

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