THE OMAHA BEE: SATURDAY, JANUARY 17, 1925.

WORLD OF

## Pad May Be Cause of Interference

## Prize Is Offered for Way to Overcome Influence of Heating Devices.

A great deal of trouble is being ex perienced with broadcast reception at Saranac Lake, N. Y., caused prin cipally by interference of electric heating pads. Some makes of pads give considerably more trouble than others. Practically all of the pads have a thermostat device which regulates the temperature within a few degrees, and there is almost continuous sparking with this device, which causes the interference.

The village of Saranac Lake is health resort, and a great number of health seekers sleep outdoors through out the cold weather. The heating pad, of course, is a great comfort to these outdoor sleepers, and almost all patients use one. Radio reception has developed into the prinicpal source of entertainment in Saranac Lake hence it is a distinct factor in the treatment of patients.

The Saranac Lake Radio club has decided to offer a prize of \$100 to any one submitting a device for, or as a means of, eliminating this interference. It must be possible, of course, to make practical application RADIO AMATEURS

are now in use and cause trouble. The pad manufacturers are aware of these troubles and are endeavoring to eliminate radio interference in future products. The Saranac Lake Radio club will be glad to send detailed information regarding the trouble to any one interested.

## **German Radio Experts**

Germany have grown considerably advices to the Department of Com-merce from the commercial attache In view of the coming me

to hold a meeting in Paris at the of 1923; (All figures in Metric tons.)

Destination. Denmark ..... 13 Great Britain ......223 Netherlands ..... 23 33 Sweden ..... 86 Spain ..... 8

Synchronized Receivers to Make Secret Wireless

-

VIRELESS TELEPHONY SECRET

London, Jan. 16 .- D. V. L. Fellow be varied in steps, and cancelled or is shown here at work on the experi- altered at the receiving end by the mental set with which he hopes use of selective electric filters and shortly to complete successful tests the necessary oscillating tubes. In with a new method of secret wire- this way the emitted wave is made a IN WORLD MEET less telephony.

Paris, Jan. 16 .- The International It is now possible with his inven-Committee for Wireless Telephony, which was founded in 1923, is plan- tion to convey messages which are ning to hold a great international rendered uintelligible at the transmeeting in this city from April 16 to mitting end, but which are rectified and corrected when received in the April 20, 1925.

particular receiving set designed to Twenty-seven nations are represented in this organization, which is correct the jumble of signals. This method superimposes upon

Show Increase in '24 in close relations with the league of Exports of radio equipment from of Commerce, the International Law frequency, rejecting that variable association and many other interna- frequency in the receiving set, ac sets. Generally, most of the trouble, during the last two years, as indi- tional organizations with wide inter- cepting only the resulting speech squeals and howls in a radio set are cated by recent export statistics, say ests in the legal, artistic and busi- frequency.

In view of the coming meeting at Berlin. The following figures which is to be largely devoted to show the exports of amateur and commercial radio apparatus for the first six months of 1924, with com-communication, radio amateurs parative figures for the same perfod throughout the world have decided

same time, and the two groups have Jan.June decided to co-operate in the fullest 1924.1923. measure possible.

or amplifier and whether it is to

used with a storage battery or dry

cells. Some tubes are "soft" and

others "hard." A "soft" tube is one

containing more gas or air. It works

best as a detector and the "hard"

tube as an amplifier. The former re

quires less plate voltage. Amplifier

tubes do not regenerate as easily as

Noises Not a Defect.

Vacuum Tubes Differ. Two factors which should be con sidered in buying a vacuum tube are whether it is to be used as a detecto

Dust Causes Howls. A few specks of dust between the oils, loose connections and run-down hatteries lower the range of many caused by little things which go un-This superimposed frequency can noticed and seem unimportant

into intelligible form.

meaningless jumble to all those who

do not possess the necessary syn-

chronized receivers to convert it back

# **Jives** distance On Crystal Sets! RESULTS troly amanual the beauting to the standard made for Crystal Seta. Fits any atandard holder. R. A. Cozard, Jr., K. C., Mo., says, holder, R. A. Cozard, Jr., K. C., Mo., says, holder, Chicago, Schenetady, Pitta-holder, M. H. Harryman, Oy Hand, "H. Harryman, Oy Hand," H. Harryman, Oy Hand, "H. Harryman, Oy Hand," H. Harryman, Oy Hand, "H. Harryman, Oy Hand, "

next night we Nebr., and

J.J.appleton

KFKY.

of a Radio within a ra of this set.

### OUTSIDE, INSIDE The positive side of the "C" bat **AERIALS SAME** tery connects with the negative ter-minal of the "A" battery. The nega-

tive side of the "C" battery connects to one side of the audio transformutside antenna' er secondary and the other terminal If the wire is not too long to be stretched out in a room it makes of the transformer connects with the

grid of the tube. little difference whether it is act ually inside or outside, unless the

wally inside or outside, unless the NEW STATIONS such as steel or other metal con ductors of electricity. In other words one may shield an antenna from the

radio waves by draining these waves Europe is progressing. off through other nearby electrical The Italian government has granted conductors, but an antenna cannot a concession of radio broadcasting to he insulated from these waves. a group of companies, one of which

Glass, wood, brick, etc., do not stop is the Western Electric Italiana. A the waves, but if all the windows were new broadcasting station at Milan will made of metal and the walls were be of Western Electric construction. also of metal no radio waves would Norway, too, has granted a conces get inside. sion for radio broadcasting to a group of companies, one member of which is

Tubes are primary causes for bat- skap.

A new broadcasting station at Zur teries to run down prematurely. Many defective tubes draw more ich, Switzerland, was put into servic plate current than they are rated recently. The Bell Telephone Manu-Many tubes sometimes draw facturing company of Antwerp, which for. two or three times more current than is associated, with the International standard ones and this soon exhausts Western Electric company, supplied the "B" batteries. the equipment.

The Finest Radio Receiver

In the World

The FREED-EISEMANN NEUTRODYNE

4 and 5-Tube Sets, \$169.50 and Up.

Installed in your home complete. Aerial extra. Easy payments

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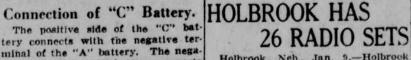
CHELTEN MIDGET

tance and volume.

Use the Chelten Midget as a vernier

adjustment for your regular condenser.

more dis-



RΔ

Holbrook, Neb., Jan. 9.-Holbrook SIMPLE WAY TO believes it has more radio receiving sets, comparatively, than any othe town in Nebraska.

With a population of 455, there off is by winding on a certain number are 26 receiving sets in Holbrook, of turns and the wire twisted tomost of them five and six-tube sets.

NOW IN EUROPE When Tuning for DX. Do not increase the tickler dial to similar manner. Radio broadcasting development in

point where the set will oscillate Or a neater looking job is made by and act as a miniature transmitter winding on a certain number of turns when tuning in a distant station with six inches for a tap; push a hole in six inches for a tap; push a hole in the wire through

The easiest way taps may be taken gether at the point so as to make a five or six-inch loop and a certain number of turns again wound on the tube and the next tap made in a

MAKE TAPS

are in most cases oscillating receiv-

ers<sup>®</sup> and are a source of annoyance

all must help to eliminate.

regenerative receiver. By doing the tube and push the wire through

this, a wave will be sent out which it; push another hole in the tube is slightly different from that of the about a quarter inch from the other transmitting station, therefore mak and close to the last turn of wire ing it impossible for the neighbors to and allow six inches for a tap and pick up the same station. The many join the two six-inch ends on the in How Battery Is Exhausted. the Western Electric Norsk Aktiesel, whistles heard when fishing for DN side of the tube



Come on, Radio Fans. Share to the limit of your needs in this most unusual sale. We candidly believe these to be the most outstanding values ever afforded Omahans on Radio Supplies.

Argentine ..... 24 Brazil ..... 5 United States ..... 9 

## Loop Antenna.

"soft" detector tubes. The directional properties of a loop are spoiled by the presence of mag netic materials situated near it. The Noises in a radio set are not al steel framework of a building has a detrimental effect on the direction of ways due to defective parts or loose a loop. These buildings have the joints. Much of the interference is characteristics of casting shadows due to power lines, violet ray ma across the loop, aside from destroy. chines, elevator motors, electric heat ing the directional properties. This condition is particularly true of a pancake loop. It is wise to keep the

op away from metal stairways and adiators.



Program for January 17. (Courtesy of Radio Digest.) By Associated Press. VSB, Atlanta Journal (429): 8-9, Wen-1 Hall, Hired Help; 10:45, fiddling con-

All Hall, Hired Help; 10:45, fiddling confect.
WGR, Buffalo (\$18): 6-6:30, music.
WMAQ, Chicago News (447.5): 5, gles
Gub: 3, orchestra; 8:30, photologue; 3.
Chicago theater revue.
WLS, Chicago (345): 7, entertainers;
120, organ, orchestra, harmony girls,
Wartet, barn dance fiddlers.
WGN, Chicago Tribune (370): 5, organ;
6780, concett: 8, classical; 10, orchestra,
KYW, Chicago (536): 7, concert; 8,
mulscal; 9:05, Youth's Companion; 9:35,
classic: 12, carnival.
WLW, Cincinnati (423): 4, Herschede;
piano-accordianist.
WTAM, Cleveland (390): 5, dance.
pWAA, Dallas News (476): 8:30, serepadders: 11, orchestra, songs, novely.
KOA, Denver (523): 10, orchestra.
KNX, Hollywood (337): 8, music; 14,
tour songs.
WDAF, Kanses City Star (411): 6-7.

our of South Sens; 12, orchestra; 1 a. m., opular songs. WDAF, Kansas City Star (411): 6-7. chool of the air; 11:45, Nighthawks. WHAS Louisville Times (400): 7:30-9, oncert, reading. KHJ, Los Angeles Times (295): 4, officert orchestra; 8:30, chfdren's; 10, estures; 12, orchestra; 2-4 a. m., Lost Kreis of KMJ. WCCO, Minneapoils-St. Paul (417): 4, Milosophies 8:30, musical; 10, orchestra, WMC, Memphis Commercial Appeal 561 9): 4, bedtime; 8:39, concert. WJZ, New York (455): 6, orchestra; ialk; 7:10, talk; 7:45, banquet; 9:39, orchestra.

hestra. WEAP, New York (493): 6:15, thrift; 15, choral club; 7:15, planist; 9:30, cmen's Ansaccition enterialnment, Ed-Cantor, band, entire'Kid Boots com-

WHN, New York (360): 7:30, orchestra, concert: 8:45, tenor: 9:45, old time elodies: 10, entertainers: 10:30, orches-

WOR, Newark (405): 7, Trinity catne-

WOR, Newark (405): 7, Trinity catne- frail
 KGO, Oakland (312): 6, orchestra; 10, musical: 12, dance.
 WDAR, Philadelphia (395): 6:30, talk. ( WVFI, Philadelphia (395): 6:30, talk. ( WVFI, Philadelphia (395): 6:30, talk; 7, talk: 3, concert.
 WCAE, Pittsburgh (462): 6:50. Uncle Kaybes: 6:45, movile chairs; 7:30, musical.
 KDKA, Pittsburgh (462): 7:30, concert.
 KGW, Portland (492): 12, orchestra.
 WGT, Schnectady (380): 8:30, orchestra.
 WFG, Seattleid (495): 8:45, program: 10:30, dance; 12:06, dance.
 WBZ, Springfield (337): 6:35, lecture.
 address; 7:30, concert: 10:30, orchestra. KSD, St. Louis Post Dispatch (549.1): concert.

KFLZ, Atlantic (273); \$ p. m., dance

rchesträ. WHAA, Iowa City (484); 7:30 p. m., owa-Creighton baskat hall game. KENF, Shenandoah (266); 12:35, con-otti 6:30, program.

WOAW Program

Saturday, January 17. m.—Dramatic hour, selected read-and regular leason invoice. 5 p. m.—Dinner program. m.—Program by Rock Port Ameri-Legion band.

ion hand. m-Frank Hodek and his Omaha Arthur Haya.



# Thompson Deutrodyne Radio

There is a genuine satisfaction in possessing a radio with all the advantages given by the Thompson Neutrodyne. For it enables you to get the utmost of enjoyment from radio.

The instrument shown above is a 5-tube receiving set, embodying two stages of tuned radio frequency amplification, detector, and two stages of audio amplification. It is manufactured under the Hazeltine Neutrodyne patent and displays the most advanced application of the Neutrodyne principle.

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Both in performance and appearance it is designed to appeal to the most exacting. Its simplicity and reliability will delight you.

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Famous 1500 MI. SteiniteTubeSets, \$12; Distance Crystal Sets, \$6; De Luxe My Money -Back GUARANTEE nreservedly guarantes STEINITE to give results than you ever thought possible of rystal set. If you are not surprised an than pleased I will send back your mone Set, complete with headphones, seria ound \$10: Wave Trap \$5, and Two Impufir , \$15. Five Tube Set, \$05 any question. STEINITE LABORATORIES, 36 Radio Bidg., ATCHISON, KANSAS

the Lapsiey, Council Binfis, Ia., says: "The second night I got KDKA, E. Pittsburgh." Thousands of STEINITE users every where You can't doubt your own ears. Listss is as STEINITE at my rist. Read my guarantee—thes set. Each 500%



It is more than a loud speaker. It is a real instrument, carefully made and beautifully finished.

Music Master has a wood amplifying bell, for the same reason that a violin is built of wood. Wood enriches the tones and they become life-like and pleasant to the ear. Tune

in on It will sing its way into the heart of every KFAB listener. Hear it at the first opportunity Nebraska Buick and let your ears decide. Auto Co., Lincoln

Nebraska Buick Auto Co.

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Wilbur Brandt, Inc.

The Chelten Midget is recognized as standard for use as a variable low capacity condenser. Put one in your set. Sold by radio dealers, \$1.50 complete. Accept only a Chelten. CHELTEN ELECTRIC CO., Phila., Pa. CHELTEN MIDGET . Sold in Omaha by THE RADIO SHOP JA ckson 1434 308 South 18th Street



The set pictured above is the Super-Zenith model. It is truly a super instrument. Surmounts every wall of interference and selects any desired station. You can run over your entire dial in 90 seconds and pick up almost any station with great clarity and volume. Six tubes, two for tuned radio frequency amplification, one for detector, three for audio frequency amplification.

> Beautiful cabinet. End compartments for batteries. BE SURE TO SEE THE

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surge your early attendant			
Here Are a Few of the Sco RADIO SUPPLY			
Veriner Rheostats	\$1.50	Now	\$1.25
3-inch Dials		2 for Now	.40
Kellogg Condenser	\$7.75	2 for Now	\$7.00
Double Wound Couplers	\$1.25	2 for Now	\$1.25
Aluminum Cabinet Frames		2 for Now	.50
4-inch Dials	75	2 for Now	.75
Closed Circuit Jacks		2 for Now	.75
Rheostate with Knob and Dial		2 for Now	and the second se
Switch Levers		2 for Now	.60
Armad Tube Sockets		2 for Now	.30
Switch Contacts with Nuts, dozen		2 for Now	.75
Foote Guaranteed Twin Crystals.	1. 19 (A. 2)	2 for Now	.20
Foote Guaranteed Triple Crystals		2 for Now	.50
Jefferson Tube Sockets		2 for New	.60
Cronley Tube Sockets		2 for Now	.75
Rocky Mountain Triple Crystals		2 for Now	.40
Wertinjre 13 P. Condenser		2 for Now	.60
Wertinjre 23 P. Condenser	A CONTRACTOR OF CONTRACTOR	2 for Now	\$5.00
Wertinjre 43 P. Condenser	and the second second	2 for Now	\$5.50
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and the second		2 for	\$1.00
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C. R. L. Rheostats		Now 2 for	\$1.00
Baldwin Single Phone and Cord.	-	Now 2 for	\$6.00
King Aluminum Horn	1.1.1	Now 2 for	\$6.00
Large Enclosed Detector		Now 2 for	.60
Mounted Detectors	50	Now 2 for	.50

