



SUBMARINE ALERT

Starring **RICHARD ARLEN • WENDY BARRIE**

with **NILS ASTHER • ROGER PRYOR • MARC LAWRENCE • RALPH SANFORD**

Directed by **FRANK McDONALD**
Original Screen Play by Maxwell Shane
A **PARAMOUNT PICTURE**

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Pacific States Short Wave Club in care of either the business manager, John D. Clark, 752 Contra Costa Ave., Berkeley, Calif., or the president Don H. Townsend, Jr., 208 Stillwater Ave., Fallon, Nevada.



Principals in the coming DX duel—Dick Arlen and Bing Crosby—listening to the short wave receiver manufactured by McMurdo Silver.

Radio Stars are DX Rivals

AS SOON as a pair of super short wave radio sets arrive in Hollywood, Bing Crosby and Dick Arlen are to stage a station-finding battle that will last a week, the loser to write a check for one thousand dollars. The two stars, both enthusiastic dial twirlers, have ordered identical sets from McMurdo Silver, Chicago radio expert, who designed the equipment taken to the Antarctic by Rear Admiral Richard E. Byrd.

The sets are due to arrive in Hollywood soon and the great contest will start. With special doublet antennae raised above their Toluca Lake

homes, Arlen and Crosby will then begin combing the ether for Russia, Germany, Japan, Australia and all countries sending out radio broadcasts. At the end of the week the star having logged the most stations will receive the prize money. Both Crosby and Arlen plan to add the money to a trust fund they are creating for their children.

Since Crosby realizes that the comparatively weak Byrd station, KFZ, will clinch the championship honors, he is erecting an antennae which is tuned to 8,820 kcs. Arlen, on the other hand, plans to concentrate on Skameback, Denmark; Geneva, Switzerland, ZGE in the Malayan States, Rabat, Morocco; Nairobi, Kenya; and Sydney, Australia.

The Beginner's Story

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ary has 6 turns also closely wound, as on the first coil. The 40 to 80 meters coil has 24 turns on the secondary wound so as to average 16 turns to one inch of length; the primary has 7 turns. The 80 to 200 meters coil has 50 turns on the secondary and 15 turns on the primary, all closely wound.

The variable condenser (VC) used to tune the secondaries of the r.f. transformers or plug-in coils, has a maximum capacity of .00014 microfarad. The tiny antenna condenser (AC) is about 35 mmfds. capacity. The choke coil (CC) should have an inductance of 2.7 millihenrys. Regeneration or feed-back is controlled by the oscillation condenser (OC) which has a capacity of 250 mmfds. The detector gridleak (GL) has a resistance of 2 to 5 megohms, and its condenser (GC) has a capacity of 100 mmfds. The audio amplifying stage is the conventional type and is connected to the detector output through a high-ratio (6 to 1) audio-frequency transformer.

(Next month we shall discuss still further the different methods of receiving short waves—converters and all-wave receivers).