## STATIONS on a 6-Valve BREMER-TULLY

28 - American

21 - Australian

10 - Japanese

20 - New Zealand



The foregoing wonderful record tells its own story in regard to the performance of this ultra-supreme Radio Set. Read what the owner of the Set says himself:-

"Dear Sirs,

"The following is a list of 79 Stations received on a Bremer-Tully 6-Valve Set model since November 15th, 1927, when my set was first installed. I have cards, letters, etc., confirming reception of all the stations listed below. I have also a big list of Short-wave Stations, and would be pleased 

(Signed) William Terrill. Waitara, 24/9/28.

2BL Sydney 5CL Adelaide 3DB Melbourne 3LD Deal Island, Light House, Victoria AQE Sir James Clarke Ross Whaling Ship 7BY Bombay, India 4ZB Dunedin 3ZC Christchurch 3YA Christchurch 2ZM Gisborne JOBK Osaka, Japan JOGK Kumanu, Japan 4ZL Dunedin 2ZK Wanganui WENR Chicago,

Illinois WBBM Chicago, Illinois KFON Long Beach, California

1ZB Auckland 2YA Wellington 3BY Melbourne KFI Los Angeles, California JOHK Sendai, JOIK Sepparo, KEWB Hollywood, California Japan KSL Salt Lake City, Utah 2HD Newcastle, Australia

KOMO Seattle, Washington KPO San Francisco CNRV Vancouver, CNRV Vancouver,
B.C.
JIBK Osaka, Japan
(old station)
JORK Osaka, Japan
(old station)
3AR Melbourne
4QG Brisbane
2GB Sydney
2UE Sydney
3CI Cliffy Island
Lighthouse, Vic.
3UZ Melbourne
3WP Wilsons
Lighthouse, Vic. Lighthouse, Vic. 5KA Adelaide
ARDI C. A. Larsen,
whaling ship
5DN Adelaide
2ZF Palmerston N. Japan

3GN Newton, Aust. 1ZQ Auckland KMTR Los Angeles, Cal. KMOX St. Louis, Mo.

KWKH Shreveport, KGER Long Beach, Cal. KFSD San Diego, Cal. KFVD Venice, Cal. KFRC San Franeisco 9XF Chicago, Illinois KGU Honolulu, Hawaii JOCK Nagoya.

Japan

(old station)

2KY Sydney
7ZL Hobart, Tas. 2UE Sydney KZRM Manilla, Phillippine Islands 7CA Calcutta, India

4ZM Dunedin 3LO Melbourne 4YA Dunedin 2AQTaihane 1YA Auckland JOAK Tokyo, Japan

JOEK Kiroshima, 3ER Melbourne KTAB Oakland,

Cal. KNX Hollywood, KGO San Francisco KFWI San Francisco KEX Portland. KFKB Kansas City, Kansas KNRC Santa Mon-

ica, Cal. KHJ Los Angeles, KFWM Oakland, KWWG Browns-ville, Texas

JOAK Tokyo, Japan (old station) 2FC Sydney

## **AGENTS:**

Barnett's Radio Supplies, Dunedin.

G. T. Gillies, Oamaru. Brehaut Bros., Timaru.

J. I. Smail, church.

Macks Radio Co., Wellington.

D. A. Morrison & Co., Wanganui.

Christ- Davy's Electrical Supplies, Hawera.

L. J. Rattenbury, Waitara. Anchor's Radio House. Hamilton. Turnbull & Jones. Auckland. Superadio, Ltd., Auckland.

N.Z. AGENTS:

## RADIO LIMITED

COMMERCE BUILDING, ANZAC AVENUE, AUCKLAND.

## How the B.B.C. is Conquering Interference

THE enclosed article from "The Times," "The B.B.C. and Its Clients," is of much interest, writes Mr. J. H. Owen, of Wellington, to the "Radio Record." Due to the proximity of Great Britain to the Continent, a good deal of interference is occasioned by the number of foreign stations and their numerous wave-lengths. It is especially at night time that this trouble happens. Now eleven B.B.C. stations which formerly had their own separate wave-lengths will become relay stations with one common wave-length, which will be an exclusive one. If pandemonium has to some extent prevailed in Great Britain, how much more must it exist in Canada and the States, where there is little or no control? I see by recent news that those countries are trying to take steps whereby some 160 small stations, which at present litter the air, shall be eliminated. This will be a difficult and an unpleasant task for the Postmaster-Generals. I see by the "Radio Record" that an application is likely to be made for a license to erect a chain of stations in New Zealand shortly. It is to be hoped that the Postmaster-General will refuse all applications of this sort. Once granted, they would (after the novelty wore off) be a constant source of annoyance to the New Zealand Broadcasting Company and to every listener in the Dominion, whilst the whole existing system would be imperilled.

The Annual Radio Exhibition takes place at Olympia this month, 22nd to 39th, and I am looking forward to a treat.—J. H. Owen.

THE new plan, announced by the be too good a reflector of waves by wireless correspondent recently able reception from stations by which it is intended that listeners to shared wave lengths. the B.B.C.'s relay stations shall be relieved of the growing annoyance of THE waves in fact, of Continental interference, is a drastic measure, but one clearly needed inasmuch as it will than is desirable. Transmission over bring relief to some four or five mil- long distances is not wanted in broadlions of listeners, mostly owners of casting, or interference with the pleacrystal sets, in a number of thickly sure of others ensues. The nuisance, populated areas where enjoyment of moreover, has been growing worse, as the programmes has of late been much the Continental stations have been impaired. Indeed, this large body of trying too shout their neighbours listeners may be supposed to have ex-down, and with their ally in the Heavipected that the B.B.C. would take up side layer, they have largely succeeded, their case; and they are now going to especially as they have been increashave a remedy given them, which, ing their powers while our relay stathough admittedly temporary pending tions have been kept at the same the introduction of the regional sys- strength. Hence the need for an estem, should remove all hardship and cape from pandemonium. The stacause of dissatisfaction. other nations will follow the B.B.C.'s tions, which all have exclusive wavelead in this matter remains to be seen; lengths: in but it is an example of the B.B.C.'s has pioneering foresight, and, as it happens, it is a kind of sequel to the famous Geneva plan, towards the settlement of which the B.B.C. took the ini- a little in wavelength and caused intiative. By that plan each nation in terference to a programme set out Europe was allotted so many shared on one of our exclusive wavelengths. and so many exclusive wave-lengths. The sufferers are the relay stations-Great Britain at present having eleven Dundee, Edinburgh, Leeds. Bradford. shared, and ten exclusive. Now, by Sheffield, Hull, Liverpool, Stoke, Notthe application of one of the exclusive tingham, Plymouth, and Swansea-all wave lengths to the relay stations, the populous places where the listeners are B.B.C. has found a way of restoring mainly crystal users and fairly close to listeners at those stations a means to the station. It is to these stations of hearing such as they have not been that the B.B.C. has resolved to devote able freely to enjoy for some time, one of the exclusive wavelengths pend-How badly they have suffered from ing the full introduction of the revarious forms of interference due to the broadcasting of foreign programmes on shared wave lengths can interference among the relay stations be judged by the fact that in some instances the local programme has been to all intents and purposes efficient only at so short a range as half a mile, while at three miles distance interference is received. This is, of course, at night, when that otherwise the day range should be even greater. beneficent layer of electricity, the Heaviside layer, exerts its potency about sixty miles up in the atmosphere. By means of that layer, which couragement which it gives to local Sir Oliver Lodge called "an unexpect ed bonus on the part of Providence," long-distance transmission, as in trans-

B.B.C., and commented upon by night to be compatible with comfort-

stations have travelled farther Whether tions affected are not the main stacase working  ${
m their}$ proved the  $\mathbf{on}$ satisfactory throughout the country. though there have been occasions when some Continental station has wandered gional scheme. All relay stations will therefore use the same wavelength, and themselves will be mitigated by arranging for the relay stations to have the same programme. Technically this is quite sound, and very little interference should be experienced by to ranges of five miles at night, while

THERE is one conceivable drawback to the plan, and that is the dis-Even here, however, programmes. for one reason and another, the disadvantage is not so great as may seem Atlantic telephony, and in the beam at first. The effects of the Heaviside system, is achieved; but it happens to layer come into force only after sun-