our advertisers.

DX18HB: What is the inductance of the special audio coupling choke in the "S.W.C. Two" and where is it to be obtained?

A.: From 300-500 henries. secondary of a high-grade transformer.

2. Where is the ,5 mica fixed condens-

er? A.: It is not absolutely essential to have a mica condenser other than the coupling condenser, though it may be preferable to use micas in other positions.

3. Round pigtail type condensers may

be obtained anywhere.

4. C5, although it does not increase the internal capacity of the valve, increases the oscillation. It is really in parallel with it and, of course, tends to reduce self capacity.

5. Our experience with Osram valves is that they are excellent and one of the best type of battery valves with which we have experimented. We have never found their emission poor and have very rarely struck a "dud."

6. You can use enamelied wire without

space, although it would be preferable to space it by its own diameter.

(Auckland): My aerial is placed as shown in diagram. It is therefore best for Ausshown tralians, but at present it is difficult to get the Americans on their morning ses-sion. Would an aerial under the roof tiles of 200 feet be as good as the present outdoor one?

A.: No. You give no details as to height and length of your aerial, but the average "L" aerial has very little, if any, directional effect

3. Would it be better to run an out-door aerial around the eaves of the house,

insulating it at each corner?
A.: No, because it would be in direct opposition to the first essential of a good serial, i.e., it must not run near earthed objects such as guttering, downpipes, etc., or, indeed, near any object at all.

and two audio stages?

A.: Yes, we think it is quite equal to any such set.

2. What is its "B" consumption?

2. What is its "B" consumption?
A. That, of course, depends upon the valves you use. If they are carefully chosen it need not be more than 8 mils.

5 HB (Napier).—You recommend the PT2 valve for the "Outspan." In an English magazine it says that by using the maximum voltage on the plate and screen it has an output of 500 milliwatts, and uses 12 milliamps. What alterations will be necessary in the "Outspan" circuit to use the valve at its maximum output?

Notes

From the Secretary's Pen

THE special programme from VE9 GW was received by Mr. R. ites of Shannon. Members in Thwaites of Shannon. other parts report that they received only the carrier.

A recent visitor to Wellington was Mr. Arthur Stevens, of ZL2HR, our Taranaki representative and a keen Mr. Stevens is visiting the N.Z.A.R.T. convention.

Owing to an accident to my power supply I nearly missed the Empire broadcast, and I have to thank Mr. J. Dawson, of Wellington, for coming

quite readily procured from several of to my rescue with his eliminator, which worked well on short waves. Fortunately howlers were not much in evidence, one of the reasons being that many did not know the secret, and were clustered around every harmonic of 2YA. I am glad I am not the DX Editor of the "Radio Times," or I might get into hot water when it came

to judging the verifications.

A seafaring friend of mine writes:
"I am glad you advised me to get an expert on the job. He came down to the boat, got out his gear, dived into the set, and found what was wrong. For testing and putting in a couple of parts he only charged me 12/6, so, in future, the expert for me." This advice could be taken to heart in many cases, as a test out is often well worth the small fee charged by the technician.

We extend best wishes for 1933 to all readers. My address for inquiries, etc., is A. B. McDonagh, Secretary, N.Z. Short-wave Club, 4 Queen Street, Wellington, E.I. Kia ora, everybody, yours fraternally, MAC.

World Radio News

IT is claimed that the mention of prices, a recently introduced feature in American wireless sales talks, has not been found to be offensive to listeners generally. It now transpires that the chief opponents to price-mention were the two big broadcasting chains themselves, who were apparently under an impression that actual price-mention might have the effect of destroying goodwill.

R. M. (Waipawa): Is the "N.Z. Short-wave Club Two" equal to or superior to any other set comprising detector and two audio strongs?

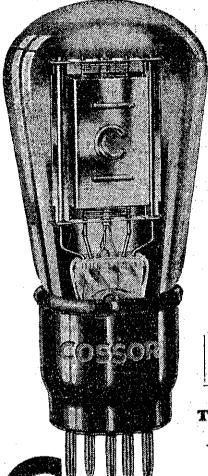
FORTUNE telling and astrological programmes by radio have recently been forbidden in the U.S.A. and in granting renewal of the license to KFWI, of San Francisco, which station had featured fortune-telling programmes, the Radio Commission ruled that such transmissions, together with the advertising for sale of astrological charts, might in many cases constitute a harmful trade upon the susceptibilities and emotions of listeners who may be in serious difficulties.

THE scheme for providing community radio for villages in India is proceeding toward a successful conclusion, in the Bombay Presidency, Indian gentlemen have undertaken to provide the receivers needed, and a European N.Z. Short-Wave Club business man has promised to make a substantial donation to defray part of the cost. The wireless consultant to the Government has chosen villages in the centre of well-populated areas. and the design of the receivers is such that they will be automatically switched off and on, by operation from the transmitting station.

> AN appliance for the detection and extinction of fires on board ship has recently been demonstrated in Great Britain. The apparatus uses a selenium cell of a pattern similar to that utilised in the reproduction of "talkie" films. When influenced by a variation of light the cell operates a relay causing an alarm to be rung and a visible signal to be flashed at a prominent part of the ship. At the same time fire extinguishing chemicals are automatically released at the point of outbreak.

EFFICIENCY-CONSISTENCY LONG LIFE-

all ensured by the MICA BRIDGE



THESE three features—all demanded by the discriminating valve user—are ALWAYS found in Cossor A.C. Valves due to the use of the famous Cossor Mica Bridge mounting—a system which gives these definite advantages:— HESE three features

> (1) Microscopic accuracy in assembly of electrodes — ensuring maximum suring efficiency.

(2) Prevents variation in electrode spacing and consequent var-lation in characteristics.

(3) Imparts great mechanical strength, thereby ensuring ex-ceptionally long life.

When you buy a Cossor A.C. Valve you KNOW that its performance will be in accordance with its stailed characteristics—and that it will retain those characteristics throughout the length of its exceptionally long life.

This illustration shows how the Cossor Mica Bridge is applied to Cossor A.C. Valves. Adaptations of the Mica Bridge are used in all Cossor Valves.

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