A Modern All-Electric Receiver

Private Radio Broadcasting Stations

Lecture to Amateur Radio Society

slackening up. It was then claimed that the introduction of the new Majestic had done much to stimulate interest in radio. It had answered three questions: First, it was unique, better, and distinctive in every way. Second, good reception was assured; and, third, the all-important price factor. The march of progress had seen the improvement in every direction in the reproduction of music, and it became evident that power supply would be necessary and power blocks for "A," "B," and "C" came into universal use. Distance is not now usually considered important, the stress being laid upon the better reproduction made possible through improved power valves and transformers.

"The following points are worthy of prong indirectly heated. note in our modern receivers," said Mr. Firth. "The price is as low as comcompletely shieldedspeaker with large field coil and well built, power pack robust and able to built, power pack robust and able to The power unit provides both fila-deliver ample current, single dial conment supply and "B" and "C" power. tol and smooth volume control, all The rectifiers are UX281, and combined 4 valves A.C., cabinet a piece of furniture, electivity sharp and clean cut, volume

Some 7500 persons are employed

AT the last meeting of the Amateur pany, of Chicago, who manufacture the Radio Society Mr. Firth, Majestic. Thirty railway truck loads of Kirkcaldie and Stains, lectured on of raw material go into the plant every and demonstrated a combination model morning, and 32 truck loads of completof the Majestic all-electric radio re- ed radio sets go out every night. That means 4000 complete radio sets are In opening his remarks the speaker turned out every day. Approximately stated that in 1928 the radio forecast 94 tons of steel are used each day, was none too bright, and many were 25,000 miles of enamelled wire are used beginning to point out that radio was for loudspeaker coils, 16,000 pounds of tinfoil and 12,000lb. of paper are daily required for the condensers,

Technical Features.

THE circuit is the balanced R.C.L. type with the new "raw A.C. 2 valves." Volume control is effected in the input circuit in such a manner so that there is no time to lag as in the 2 case of a filament voltage control as when using a 227 type of valve as R.F. The antenna trimmer which permits adjusting the input circuit to bring it into exact resonance with the other tree tuned circuits is an excellent 3 selectivity control.
The valves used are the standard

A.C., the R.F. and audio being the "raw" type and the detector the five-

A useful feature in the power pack 4

is the line voltage control, which autopatible with efficiency and appearance matically adjusts the primary to the 4-chassis, all-metal, well brac-surges of the A.C. from the mains. This prevents the valves being burnt out through overloading.

with chokes and condensers makes an excellent rectifier. The inductance of ample for any home without distor- the magnetic field of the dynamic speaker is used as a choke in the "B" voltage supply. The speaker is of the wery day in the Griosly Grunow Com- electro-dynamic type, and will faith-

Full List of Present Operators

	er input aerial.	t Wavelengt	th.
Auckland District:	Watts.	metres.	Transmissions.
1ZB-La Gloria Gramophone			
Co. Auckland 1ZQ—L. R. E. Keith, Esq.,	24	275	7 to 10 p.m., Monday.
Auckland	20	253	4 to 6 p.m., Sunday; 8 to 10 p.m., Monday; 8 to 10 p.m., Thursday.
Wellington District: 2YB—The Radio Broadcasting Co. of New Zealand,			<u>}</u>
Ltd	100	24 4	Mon., Wed., Sat., Sunday,
Club, Palmerston N	20	285	6.15 to 9 p.m., Wednesday; 3-4.30 p.m., 7-9 p.m., Sunday.
2ZK-D. A. Morrison and Co., Wanganui	25	500	8 to 10 p.m., Wednesday; 3-5 p.m. Sunday (approx.).
2ZM—Atwater Kent Radio Service, Gisborne	60	250	Tuesday, Thurs., Sunday,
2ZQ-N. R. Cunningham, Ltd.,		200	and the state of t
Masterton	50	254	8-10.30 p.m., Mon., Wed., Saturday.
Canterbury District: 3ZC—Home Recreations Broad- casting Service, Ltd.,			
Christchuch	250		Mon., Wed., Thurs., Friday, 10-11 a.m., noon-2 p.m.; Tues., 10-11 a.m., noon-2 p.m., 2.30-4.30, 6.30-11.30
Otago District:			p.m.
4ZB—Otago Radio Associa- tion, Dunedin	10	277.8	8-10 p.m., Thursday.
4ZL—Radio Service, Ltd., Dunedin	60	245	8.30-10.30 a.m., 12.30-1.30 p.m., 2-3 p.m. daily, except Sunday.
4ZM-J. D. McKewen, Dun-			
edin	10		10-11.30 p.m., Monday.
4ZO—Barnett's Radio Supplies	20	277.8	12.1 p.m., 5.6 p.m. daily,

duce a wide range of fre-Byrd from a hotel at the famous water-Grid bias is accomplished ing place, Atlantic City.

KDKA have requested 2ME, Sydney, fully reproduce a wide range of frequencies. by applying a positive potential to the filaments and earthing the grids. This has the same effect as applying a negative bias to the grid.

Having finished his lecture, Mr. Firth d nonstrated. With an aerial comprising a wire thrown across the roof and an improvised earth the receiver was able to bring in Auckland tunately power noises were very bad in that particular area. Christchurch

gramophone records and demonstrated that the set was capable of delivering a greater volume than could be needed or a whisper barely audible. In conclusion, the speaker was accorded a very hearty vote of thanks for his interesting and instructive lecture.

For Byrd in Antarctica

A SPECIAL broadcast for the Byrd expedition is promised from KDKA on June 23 (Sunday), when a party of film stars of the Paramount Film Com-

except Sunday.

to endeavour to rebroadcast this interest-

ing event.

I am indebted to Mr. Morrison, Brooklyn, for this news items. He head it while the two stations mentioned were carrying out a duplex telephony test this (Saturday) afternoon.

at quite good strength, though unfor- Mr. Frank Kellogg Heard

and 2BL were both heard. 2YA came in at great strength and with good quality.

Switching over to the gramophone pick-up by merely rotating the dial till it reached its limit, Mr. Firth entertained by several well reproduced gramophone records and demonstrated

The first speaker, name not heard, traced American history with appropriate music faintly in the background; the officer in charge of the American Legion was

cer in charge of the American Legion was next heard.

Soon after 2 p.m. the Secretary of State, Mr. Frank Kellogg, was introduced. A very interesting address followed on the world's peace.

In speaking of talk of war between the United States and Great Britain, Mr. Kellogg said: "War between Britain and the United States is unthinkable, and should be impossible." Later, he referred to bad feeling between these two countries being caused by irresponsible people. A SPECIAL broadcast for the Byrd expedition is promised from KDKA on June 23 (Sunday), when a party of logg spoke for nearly half an hour, every film stars of the Paramount Film Company will send messages to Commander with great interest.



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All-Electric RADIO

MODEL 71.—Post-Colonial period design with instrument panel of matched sign with instrument panel of matched Burl Walnut framed by a panelling of Bird's-eye Maple and matched Burl Stump Walnut. Seven valves, completely shielded, using R.F.L. balanced circuit. Majestic Super-Dynamic Speaker. Volume control instantaneous in action. Single dial

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