

245. The novel stencil cut station selector dial and single tuning volume control are additional features which are both unusual and efficient. Model 46 is of the Highboy Console type, and unusually attractive. It has single dial control, and this operates the tuning, so that on the whole receiver there is one inconspicuous knob. UX 241's (screen grid) and 245 characterise the circuit. Added to its many features is a built-in electro dynamic speaker.

A line distinctive to these manufacturers is the RCA superheterodyne. Eight powerful AC radiotron valves are employed with a result that it is able to separate broadcasting stations with knife-edge selectivity without excluding any of the musical frequencies that are so necessary to faithful reproduction. The circuit consists of two stages of tuned radio frequency, detector, two stages of tuned intermediate frequency, a second power detector, and an audio amplifier.

The Farmers' Trading Co. will also be showing A.W.A. Duoforte, AWA Radiola Electric seven and other well-known AWA products. In addition there will be other AWA products, including loudspeakers and valves.

Stand No. 21.

JOHNS, LTD.

AT their stand, Johns, Ltd., are catering very extensively for the amateur constructor, especially the one who wishes to convert his set from DC to AC. Outstanding among the items will be the Westinghouse products, which include the very well-known metallic rectifiers, a series of which can be used for A, B and C eliminators. The A unit is one that should appeal to those who do not wish to go to the trouble of re-wiring their sets, but who would rather use an A eliminator. This rectifier is capable of supplying ample current for almost any set.

In addition to these rectifiers there will be complete chargers of both types, complete shielding devices and other well-known products.

Complete sets will include the Hammarlund-Roberts, a set which has justly earned a wide reputation throughout the country. This exhibit will be of particular interest to those who are unable to install an AC receiver, for nothing could be more efficient in the battery models than one of these regeneration-using sets. The AC user will be catered for by a small three-valve set designed and made by the exhibitors. This, like the Hammarlund-Roberts, is very efficient. From the cabinets to the coils everything is made and assembled in New Zealand, with the obvious exceptions of such components as condensers, valve sockets, valves, etc.

Stand No. 22.

"NEW ZEALAND RADIO."

PARTICULARS of the activity of this journal are not yet available. No doubt they will be exhibiting the prize-winners of the set-building competition. Details will appear when to hand.

Short-Wave Oscillation

A DIRECT-COUPLED aerial is often used in a short-wave set, and in such cases it may be difficult to obtain oscillation. It may be possible to insert a larger reaction coil, but even this sometimes will not suffice. Short-wave receivers are often made with fixed coils, and so it is desirable to find some cure, other than that mentioned. Disconnect the aerial from the set, which should then oscillate easily. If this happens, couple the aerial to the grid coil by means of a small coil of about four turns, varying the degree of coupling until the set oscillates without difficulty. If, however, the set does not oscillate at all without the aerial, the coils should be reconstructed on low-loss lines. At the same time, if it can be used satisfactorily, a direct-coupled aerial will often give stronger signals than those given by a loose-coupled one.

Competition Results

Children's Song Service

THE competition conducted by Uncle George for his young listeners has proved highly successful, not only in the interest displayed by the girls and boys, but also by adults who have generously supported the idea and encouraged the children to compete.

Two hundred and ten entries were received, the essays being of a very high standard, coming from all parts of the Dominion.

Uncle George wishes to thank through our columns several donors of prizes and gifts of money to the prize fund. In all, £5 was received in cash, and this will be spent in the purchase of suitable books for the winners in each grade. Another very generous donation came from Cadbury's and Fry's Ltd., who have given a large parcel of 1lb. blocks of chocolate. The interest displayed in these Sunday services is very wide-spread, and judging by the many letters received is eagerly looked forward to, week by week, by young and old.

Prize-Winners.

Grade 1.

First.—Roy Kennerley, Cambridge St., Levin; Murray Smith, 21 Resolution Street, Lyall Bay, Wellington; Isabel Hollis, 70 Pownall Street, Masterton; Vivian Platt, 297 Jackson Street, Petone.

Second.—Ailsa Ramsden, Hutt Road, Petone; Phyllis Blakemore, Springston, Canterbury; Mary Battson, Dolma Street, Methven; Marjorie Apel, 17 Aparima Avenue, Miramar, Wellington.

Third.—Kathleen Stevenson, 9 Awamutu Street, Lower Hutt; Betty Harper, Showgrounds, Tomoana, Hastings; Noeline McMillan, 9 Malcolm Avenue, Wellington; Joan Morgan, 30 Hautana Street, Lower Hutt; Keith Russell, 25 Hawker Street, Wellington.

Grade 2.

First.—Joyce Stanley, Tokanui, Southland; Grosvenor Morgan, 49 Moana Road, Kelburn, Wellington.

Second.—Jack Washer, Inaha, Taranaki; Charles Washer, Inaha, Taranaki.

Third.—John G. Irvine, 91 Constable Street, Wellington; Peggy Sim, Puke-maori, Tuatapere, Southland.

Grade 3.

First.—Arapata Piripi Te Maari; Jean Peacock, Box 52, Eltham.

Second.—Constance Fraser, 159 Victoria Avenue, Palmerston North; Stewart Frame, 22 Elizabeth Street, Petone.

Third.—John Noble, Gore.

Grade 4.

First.—Ina Sladen, Tasman, Nelson; Ron Bell, 5 Matai Road, Wellington.

Second.—Olga Meyer, Mount View, Calico Line, Marton; Marion Airlie West, Private Bag, Te Mata.

Third.—Frances Sharp, Gorge Road P.O., Southland.

Consolation Prizes.

Margaret Cowie, Atapiri, Winton, Southland; Muriel Stanley, Tokanui, Southland; Alice Derrick, Whakapara, North Auckland; Dorothy Eady, 61 Donald Street, Karori, Wellington; William Morris, Native School, Motatau, North Auckland; Howard Adams, 28 Campbell Street, Karori, Wellington; Myola Halliday, 58 Heretaunga Street, Petone; Douglas Fraser, 159 Victoria Avenue, Palmerston North; Alex. Fowler, —; Mervyn Kailer, 9 Preston Street, Eltham; Patricia Bredin, High Street, Carterton; John Graham, Glencoe, Invercargill; Joan Kay, 28 Ribble Street, Island Bay, Wellington; Hubert Girdleston, Nikau Street, Eastbourne; Rona Berry, Ashley Street, Palmerston North; Fred Edgecombe, Omata, R.D., Waverley; Jack Larcombe, Box 381, Palmerston North; Graham Avery, Private Bag, Blenheim; Ngaire Signal, Te Horo; Alistair McLennan, Carrington, Carterton; Jean Te Maari, —; Janet Palmer, Longbush, Masterton; Lindsay Budge, Denair, Fordell; Merle Ferguson, Blind River, Seddon; John Agnew, 174 Kelvin Road, Invercargill; Reginald Dearlove, 13 Summerhay Street, Palmerston North; Hazel Lock, Railway Cottage, Masterton; Doreen Totty, Karaka Street, Castlecliff, Wanganui; Dorothy De Cent, 85 Marjoribanks Street, Wellington; Sybil Cox, 93 Kaimui Road, Hataitai, Wellington; Myrtle Wood, Roxburgh; Eunice Luty, Maxwell; Nancy Paine, Belmont, Lower Hutt.

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 2/- cash for 20 words, and twopence for every other word thereafter.

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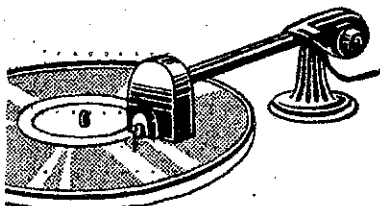
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