

cluding primary and secondary modulators on the right-hand side. The rubber tubes used for the water-cooling system can be seen. The resistance of the water-column in these tubes is so high that the electrical loss can be completely ignored. As the output for the excitation of the first amplifying stage amounts to less than 1 w., measures must be taken to avoid any reaction of the following stages, and especially of the last stage on the first.

Considerable difficulties can be caused by a reaction of only 1/20,000. Serious difficulties can also be caused by

parasitic oscillations in ultra-high frequencies. These oscillations are mostly due to the fact that certain of the connecting wires form an oscillation circuit with the internal capacity of the valves. This evil is to be feared, especially when several valves are connected in parallel. The dimensions of all connecting wires are kept as small as possible, which, of course, leads to a compact installation. This is in contradiction to the electrical requirements to which the apparatus must come up. Condensers especially cause difficulties of this kind.

the wave-trap to see what would happen, and to my surprise 2YA came in louder than ever on the speaker. Would you please tell me what happened, as wave-traps are supposed to decrease the volume. It is now 17 minutes past ten and the music is coming in as loud as I receive it from 1YA. Your announcer has just told us the time we also heard you re-broadcast 4YA, Dunedin and 2BL, Sydney. "Lonesome in the Moonlight" is coming in now as loud as a brass band, this will do me. No fading of 2YA, as I am led to believe.—A. W. Powell (Auckland).

[A wave-trap should not increase the volume if the set is without fault, but it appears as if the aerial coil is too small and full volume is being lost. The wave-trap coil, being larger, supplied the deficiency, bringing the volume to what it should be.—Ed.]

### This Jazz!

AT present I am awaiting 2YA's announcement as to whether the Southern Cross will leave to-morrow morning. It is certainly grand the way the Broadcasting Company have kept radio enthusiasts informed regarding the flight; but, while there is a long wait, would it not be possible to put on some music instead of jazz rubbish? A jazz record now and again can be tolerated, but it is awful to wait half an hour and more listening to the thump, thump of a jazz band, accompanied by a singer (?) with a voice like a starved tom-cat. Surely it would be possible to mix the items a little. If there is trouble with the copyright of better music, then it is high time something was done to break the power of the Australian Performing Rights Association, or whatever the name is. Hope you take this as a friendly suggestion. I've growled more than I intended because I'm feeling blue after all that jazz. While we are about it, might I suggest also that during these broadcasts the name of the item be announced, as is done during the regular programme. (The record just put on is not jazz, thank goodness, but an announcement of the name would have made it more interesting.) Thanking the company for the good service rendered in connection with the trans-Tasman flight.—K. L. Collinson (Palmerston North).

### Mystery Stations.

WOULD you be so kind as to identify the following stations for me? The first one is nearly on 2FC's wavelength, about 441.8 metres, comes in fairly loud, but with terrible fading. The talk was strong, not Japanese. Another one on 450 metres, which also comes in fairly strange, the talk there being foreign. There is another one on about 384.1 metres between JOHK and 4QG. I get him about 8 o'clock some nights. The other night I put a coil from my aerial to my machine and got a station calling out: "Hullo, hullo, —, station 187, wavelength 788 metres," or 88—. I could not catch which; this was about 9.30 p.m. Hoping you will be able to identify the above stations for me.—M. Wiffen, Blenheim.

[There are about four American stations operating on 441.8 metres. KGO, California, on 384.4 metres, has been heard in New Zealand. The Japanese station JOGK (Kumamoto) can be heard on 380 metres, while 1LFRG (California) on 454.3 metres, is also

heard. Have any readers heard any of these "mystery" stations?—Ed.]

### The Racing Ban.

I SEE by the last issue of the ever-popular "Record" (in the Auckland notes) that 1YA are going to broadcast running descriptions of the next races to be held in the Queen City. If this is a fact it will be hailed with great delight by thousands of listeners throughout New Zealand. All that listeners-in wish, is that all the major race meetings will be broadcast in future. Just watch the licenses go up, if this happens! Good luck to the Radio Broadcasting Company. May its shadow never grow whiskers. By the way, 4YA has been coming in very strongly here these days, and also 1YA about 9 to 10 p.m.—A. C. C.

[We do not wish any misunderstanding. We understand the position to be that where conditions are favourable the fullest service possible will be given and in other cases the results and summary with as little delay as possible. The position is not radically different from what it was, but for the more important meetings special efforts will be made.—Ed.]

### KGER Logged.

I SEE by last issue of the "Record" a listener at Masterton, Mr. Guy C. Holmes, logging KGER. I logged KGER on June 6 (on consulting my log), and received a card and a letter from the proprietors of KGER on August 6, as verification of reception, saying how pleased they were to hear a report so far away as New Zealand. KGER is owned by Mr. C. Merwin, Dobyns Footwear Buildings. The wave of Long Beach, California, power 100 watts, 215.7 metres. My list of Yanks to date is seventeen. I would like to correspond with Mr. Holmes to exchange views.—S. Ellis, Okato.

## Our Mail Bag

Will correspondents please practice brevity, as heavy demands are now made on space. All letters must be signed and address given as proof of genuineness: noms de plume for publication are permitted. Address correspondence Editor, "Radio Record," P.O. Box 1032, Wellington.

### ANSWERS TO CORRESPONDENTS.

G. Smith (Auckland).—Messrs. Harringtons, Limited (Wellington), retail cone speaker units at 30s.

### Changes in Programmes.

MAY I endorse the remarks re changes in programme made by "P. H. Warren" in last week's "Record." I also was very disappointed at the substitution of other music for the selections from Sullivan's "Ruddigore," to which a number of us had been specially looking forward. On Saturday, September 22, however, a delightful scene from "Ruddigore" was broadcast from station 1YA by Mrs. Daisy Basham and Mr. Arthur Briggs. This

was made specially interesting by the inclusion of Gilbert's dialogue, which was charmingly given. May I request that Mrs. Basham's duo be requested to repeat this satisfying number, which I know delighted many people.—"Listener-in."

### 2ZA, Wanganui.

IN your last issue I notice Mr. S. Ellis making inquiries concerning a station on 500 metres. This is 2ZA Wanganui, and, according to recent correspondence, is owned and operated by D. A. Morrison and Co., electrical engineers, Wanganui, power 20 watts, wavelength 500 metres, hours of transmission Wednesdays 8 to 10 p.m. (approximately), Sundays 2.30 to 4.30 p.m. Greetings, S. Ellis.—N. C. Winstanley

### Too Much Gramophone.

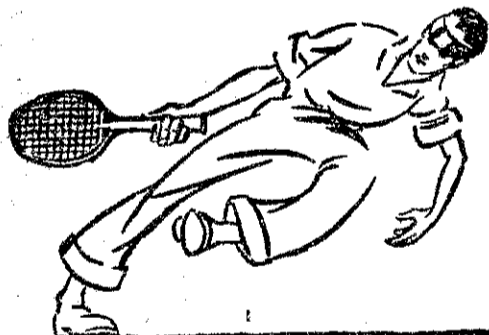
MAY I use a small space in your paper re the programmes 2YA is giving lately. We hear nothing else but gramophone records all the time—afternoons, also for evening sessions. I don't think the Broadcasting Company is acting fair.—Fair Play (Wellington).

### A New Year Suggestion.

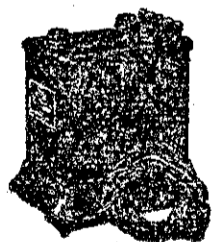
I AM writing this letter for the purpose of making a suggestion which may or may not be feasible. Since New Zealand will be the part of the Empire that will be the first to usher in the New Year, it would be rather unique if the broadcasting of the festivities, say at Christchurch, could be rebroadcast by short-wave, possibly through the medium of 2MB, Sydney, to be picked up by 5SW, and then rebroadcast by 2LO, London. This sort of thing helps to cement the Empire, bring home to the general public the wonders of wireless, besides giving a certain amount of prominence to New Zealand.—Philip Williamson (Whangamata).

### Wave Traps.

I AM using a three-valve all-wave set, and to-night I connected a wave-trap between the aerial and set. The coil of wave-trap has 60 turns of wire tapped every fifteenth turn. I plugged in on the first tap of the wave-trap coil. I then tuned in 1YA on the set at full strength. Then with the wave-trap I tuned 1YA out, or I might say I cut them out. Then I tuned in 2YA on the set at fairly good speaker strength. I altered the condenser on



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