

A Fascist Decree

AN Italian lawyer, who was recently arrested at Nice and charged with broadcasting anti-Fascist news from his villa there, has been sentenced in Rome to imprisonment for 10 years and nine months to be followed by three years of police supervision. A clear indication of the importance attached to radio as a means of reaching the people.

A Questionable Device

A FRENCH inventor has developed a speaking signal for motor-cars. Just in front of the driver is a microphone. As a pedestrian starts across his path the driver, without raising his voice, says into the instrument, "Look out, please; you'll get run over!" Some New Zealand motorists we have met would scarcely be so polite.



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More Australian Stations

Eight "B" Class Near Completion

BEFORE the end of the year eight new "B" class broadcasting stations, all Australian-made, will be operating in various parts of Australia, making the total number of broadcasting stations thirty-one.

Sites of the stations are Brisbane and Townsville in Queensland; Albury, Moss Vale, Goulburn and Canberra in New South Wales; Bendigo in Victoria; and Launceston in Tasmania. It is understood that the licensees contemplate tying up with class "B" stations, 2UW, Sydney, and 3DB, Melbourne, for the purpose of relaying over the entire network programmes originating in the capital cities.

In each case the contract for the design, manufacture and installation of the transmitting equipment has been secured by Amalgamated Wireless, which company is now busy manufacturing the apparatus in its new radio-electric works at Ashfield, near Sydney. The plant is of the most up-to-date type, the transmitters being provided with both crystal control and master oscillators. None of the stations will be of high power, but modulation of the carrier wave to the full 100 per cent. will give an effective range far beyond what might be expected from the nominal rating.

Full information concerning the stations is not yet available, but the following details have been procured:—

THE Albury station is 2AY, the license being held by Mr. C. Rice, proprietor of the Mid-State Radio Company. The masts are 75 feet high, and the station will operate with 50 watts of power in the aerial. On a wavelength of 227 metres (1320 kc.) a service of about six hours a day will be given, including relays of 2UW, Sydney, and 2DB, Melbourne.

The Brisbane station, 4BC, the license of which has been granted to J. B. Chandler and Co., is already in operation—or at least a temporary plant has been installed pending the construction of a new and up-to-date transmitter. This will be a modern instrument working on a wavelength of 223 metres (1345 kc.), with a power of 200 watts in the aerial. The masts are 160ft. high, giving an excellent range. The studio is situated in the offices of Chandler and Co., Adelaide Street, Brisbane.

THE Launceston Station, which will be owned by Wills and Co. Pty., Ltd., will be known as 7LA, and will have a power of 200 watts in the aerial. On a wavelength of 273 metres (1100 kc.) this station will be heard throughout Tasmania and on parts of the mainland of Australia. The site of the transmitting station is three miles from the Launceston Post Office, being the highest point outside the city, approximately 650 feet above sea level. The studio will be in Findlay's Buildings, Brisbane Street, Launceston. As Wills and Co. Pty., Ltd., are a well-known musical firm well established in the musical life of Tasmania, it may

be anticipated that the programmes of 7LA will set a very high standard.

At Moss Vale (2WL) will be a 50-watt station of the latest type, and will be located a mile from the town on a high elevation. The studio will be situated at the transmitting site. This station will be owned by a company formed from the business com-

Race Week at 3YA

During Carnival Week in Christchurch, when there will be race meetings daily and the annual show at Addington, 3YA will be busy. Special arrangements have been made for securing and broadcasting the race results as promptly as possible, and holiday programmes have been arranged for each evening. There will be no silent day.

munity of the district. The wavelength will be 201 metres (1490 kc.), and as the apparatus is well under way, it is expected that 2WL will be on the air early in December.

The Goulburn Station will be similar to that of Moss Vale, having masts of 120ft. high and a power of 50 watts in the aerial. The site of the transmitting station is 1½ miles from the town on a hill 200ft. or more in height. The license for this station is held by Russell's, Ltd., a well-known firm of radio dealers.

Canberra, Bendigo, and Townsville stations, which are still in the embryo stages, will be similar in type to the Albury station.

MR. A. J. RYAN, of Canberra, has been granted a "B" class license for a station in Canberra, Federal Capital Territory. The station is now being tested under the call sign VK2LE on Sundays between 5 and 12 p.m. (New Zealand time), and at various unscheduled times, when 2BL is off the air. The present wavelength is 285.7 metres (1050 kc.), which will be increased in a few months' time to 480 metres (625 kc.). The station has an unmodulated aerial power of 50 watts, and the call sign, when it commences regular services, will be 2CA.



Tips and Jottings

A SLIGHT smear of oil, followed by a polish with soft, clean duster, will often restore an ebonite panel that has gone "off-colour."

IF the aerial is allowed to touch or swing near a gutter pipe, tin roof, or similar large metal surface, you may be troubled by "fading."

IF you are troubled by loud speaker rattle do not forget that this is sometimes due to a small nut becoming loose.

WHEN two aerials run close together there will be interaction between them, and this will affect the selectivity of both sets.

KEEP your aerial as far away from your neighbour's as possible, as running them close together will give rise to many undesirable effects.

ONE of the lesser known advantages of the output filter circuit for the loud speaker is the fact that it frequently improves stability, more so in shortwave.

"B" BATTERIES which are partly run down will often give rise to buzzing and cracking noises which are particularly noticeable if good audio transformers are used in the set.

ONE old-fashioned cure for electrical interference picked up from adjacent electrical machinery is to try a new earth. A fixed condenser placed in series with this can often eliminate or greatly reduce hum.

IF your detector seems to work just as well without a grid leak as with one, it is possible that there is a leak across the valve holder or on the base of the valve.

GENERALLY speaking, it is inadvisable to modify the circuit of a portable set except to a very small extent, owing to the fact that there is no space to spare in such a set.

MANY experimenters have found that better results may be secured in the operation of screen grid receivers if the lead between the coil and the cap of the valve is shielded, and in some cases earthed. An inexpensive makeshift for this purpose may be arranged by taking a piece of insulated wire, such as rubber-covered stranded wire, cutting pieces of tinfoil 4in. wide and 4 or 5in. long, and then winding these strips of tinfoil smoothly around the rubber covering on the wire. After this operation, a flexible wire may be bound round the end of the tinfoil and then taken to earth, if desired.

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