

# P.625.A the power valve that has eclipsed all previous performance

DESIGNED to handle enormous volume, entirely free from distortion, in the last stage of amplification, Osram P625A has been proved by wireless enthusiasts throughout Australia to possess exceptional qualities. There is no valve to compare with it, particularly for use in gramophone amplifiers. If you cannot obtain it locally—or any other Osram Valve you need—it will be sent direct, safe delivery guaranteed. The "Osram Valve Guide"—a useful little book—will be sent you free on request

#### SPECIFICATIONS:

fil. Volts .. 6.0 max.  
fil. Current 0.25 amp.  
Plate Volts .. 180 max.  
Amp. Factor .. 3.7  
Impedance 1,600 ohms  
Mor. Slope 2.3 ma/volts  
Max Plate Cur. 28 m.a.  
Eqpy. UX171A, C603

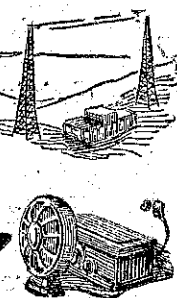
# Osram Valves

Made in England

Advertisement of the British General Electric Co. Ltd.

Branch Office and Public Showrooms: 31-37 Taranaki Street, Wellington

# Radio Round the World



#### Wavelets

IN the village of Vand, in Switzerland, the authorities have forbidden the use of loudspeakers after 10 p.m., in public places and private homes.

The Danish short-wave station of Lyngby re-transmits the programmes of Copenhagen on 31.6 metres after 7 a.m. (N.Z. time).

The new Swedish station at Spanga transmits on 135 metres, with a power of 60 kilowatts.

A gramophone record the size of a half-crown is being exhibited at Berlin.

In Sardinia a station has been constructed to operate on 10 metres. It will keep that island in contact with the mainland.

AN inventor has constructed a clock the regulation of which is controlled by a piezo-electric crystal, giving it a precision only attained by the famous timepieces of astronomers. After a trial of several weeks it was one-millionth of a second out.

THE Dutch Minister has issued instructions concerning politics in transmissions. The programme must exclude anything that is likely to militate against the opinions of listeners, and in particular those of a political character. It authorises news concerning religious conferences, with the exception of anything calculated to cause strife. Programmes are to be given to suit the general listeners.

IN Germany a type of radio valve in the form of a flat container, somewhat resembling a tube of tooth paste, is being produced. The grid is not inside the valve, but is in the form of a metal layer on the outside of the glass. It is made at lower cost than the ordinary valves and operates as efficiently.

THIS year's Radio Show at Olympia, England, is being regarded as a Celebration Exhibition to mark the tenth anniversary of the first programme broadcast in that country. It was in 1920 that Dame Nellie Melba's voice was heard by a small band of listeners who tuned in the Marconi transmitter at Chelmsford. The National Radio Exhibition, which was held from September 19 to 27, was the largest and most complete ever held in the Empire.

NOT for a moment is it to be believed that the valve has reached the peak of development. It is revealed that the chief engineer of the De Forest Radio Company has invented a new form in which the grid is caused to rotate by the impact of the electron stream from the filament, something like the Crookes "radiometer," in which four vanes are rotated by light energy. This new-old

idea appears to present interesting possibilities and we shall watch closely for its emergence in the form of a finished instrument. One claim made for the revolving grid device is that it can be used as a frequency changer.

THE provision of wireless on the Thames police-motor-launches is an interesting project now being considered at Scotland Yard. The boats so fitted would carry out patrol work in the same manner as the wireless-equipped vans of the Flying Squad on land.

TO go to gaol in absolute ignorance of the wireless art and to emerge a fully fledged "amateur" is now a happy possibility in Russia. The Soviet Government has come to the conclusion that the study of radio is one of the best means of improving a prisoner's morals. It has been found that courses in electricity and wireless develop a new mentality among prison students, many of whom, it is declared, have turned over a new leaf on returning to civil life by taking up radio as a profession.

COMMENDING wireless as offering promising careers for young men, a writer in a technical college handbook in Hull, England, remarks: "It is only 35 years since Senatore Marconi filed his application for the first British wireless patent. On the screen, in the 'talkies,' in the work of shipping, in world communication through the great 'beam' stations, as well as in factories and workshops which produce and sell the manifold broadcasting and receiving sets, careers have been opened up for thousands of able young men whose talents might otherwise have run to waste but for this invention."

AT the request of the International Broadcasting Union, the British Broadcasting Corporation has recently adopted, in common with other broadcasting organisations, a new power rating. The actual power of all B.B.C. stations remains the same as before, though the method of computing the power rating is changed to comply with the new international definition. In the past different broadcasting organisations have used different methods. The new system of computing the power of a broadcasting station takes account of modulation, which the method formerly used in England did not.

A LONDON motorist has fitted a public address system on his car to replace the horn. During recent tests he was able to "direct" pedestrians to safety at a distance of 300 yards. The idea has its disadvantages, for if every car were so fitted, a busy thoroughfare would become a veritable Tower of Babel.