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ENGINEERING.
NOTES AND COMMENTS.
By METRE.

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In the Balsillie system (patented by Mr. J. Graeme Balsillie, the Commonwealth Government engineer for radio-telegraphy), after the charging of the condensers, the discharge produces one impulse for each charge of the condenser or one reversal of the condenser charge, the reversal taking place in a much briefer period than that occupied in charging. By coupling the discharge circuit to the radiator circuit some energy is transferred to the radiator. The patentee, however, claims that there are no oscillations in the discharge circuit, as there are in the Marconi and Telefunken methods; therefore, the degree of association between the discharge circuit and radiator circuit must be greater if equal efficiency is to be attained. Essentially, therefore, the condenser discharge circuit is a reservoir from which the radiator draws energy to make good radiating losses in the Marconi and Telefunken systems, while in the Balsillie system the condenser discharge circuit is an impact source, from which the radiator receives a certain quantum of energy that is afterwards rayed out in the form of etheric oscillations. "Tuning" in the Balsillie is resorted to only in order to insure the condenser discharge circuit delivering energy at the rate at which the radiator will most efficiently absorb it. Once this is established, no further action or reaction takes place between the radiator and the condenser discharge circuits.

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