

RAPID TELEGRAPHY.

PROF. A. C. Crehore and Lieut. G. O. Squier, U. S. A., in a paper read before the April meeting of the American Institute of Electrical Engineers, entitled "The Synchronograph: A New Method of Rapidly Transmitting Intelligence by the Alternating Current," describes a new method of rapid telegraphy. The transmitter consists of a mechanism for opening an alternating circuit at the exact instant when zero value is reached, and keeping it opened during one or more alternation; one or more half waves may thus be omitted according to the requirements of the telegraphic alphabet. By means of a perforated paper band corresponding to the message to be sent, the half waves are omitted in the proper order. The receiver rests on the principle that if a ray of polarized light is passed through liquid carbon bisulphide or one of a number of other substances, the plane of polarization is rotated by any change in value of a magnetic field set up by a coil surrounding the liquid—that is, by any change of current in the coil. This principle is utilized to register the current from the transmitter, by photographic means, the suppression of the half waves above referred to being thus registered at the receiving end of the line

in the form of a record comparable to that printed on a tape by a Morse receiver. The transmitter may also be used in connection with a chemical receiver, such as the Delany. In experiments no difficulty was experienced in obtaining records with the use of a frequency of 545 periods per second, which corresponds to a transmission of between three and four thousand words per minute.

Messrs. A. P. McLaurin & Co., of Lachine, Que., are about to light their factory by electricity. The order for the dynamos and material has been given to the Royal Electric Co.

The Perth Waterworks Co., of Perth, Ont., have decided to do their pumping by electricity and also to light the town of Perth. For this purpose they have placed their order with the Royal Electric Co. for a 150 k.w. "S.K.C." two-phase generator, from which will be driven the pumps by two-phase motors, the balance of the capacity of the machine being used for lighting and power to be furnished in Perth. A more extended description of this plant, which is rather unique, will appear in the next issue of this paper.

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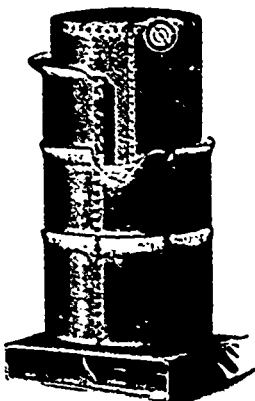
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