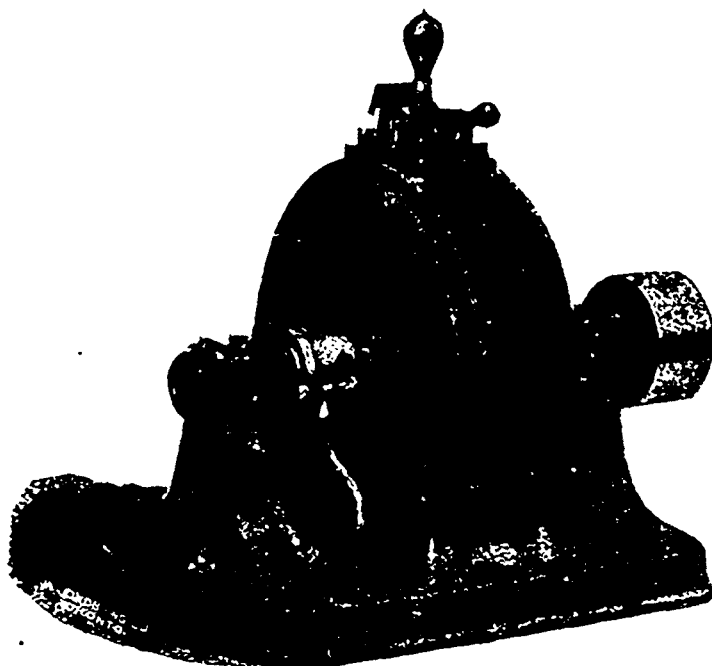


ALTERNATING CURRENT MOTORS.

The accompanying illustration is of the self-starting, single-phase alternating current synchronous motor, manufactured by the Toronto Electric Motor Company, Toronto, who supply us with the following facts and claims concerning it:—

Stationary motors for use in connection with direct-current generators are familiar in cities where there is a system of direct-current distribution in operation, and even where the lighting service is supplied from alternating-current dynamos, having a separate power circuit from which direct-current motors are supplied with service, usually under a pressure of 500 volts, a special generator being installed for this purpose and separate lines extended as far as practical; but such a system is limited by the expense of this extension, necessarily paralleling other lines already constructed for lighting service. Under such conditions, a remunerative piece of business is often refused on account of the first cost of the extension necessary to reach the customer.

The many advantages of the alternating-current system have led to its adoption in the great majority of the central lighting stations of the United States, notwithstanding the objections that (aside from a few inefficient fan motors of a fraction of a horse-power) no motors practical for general power distribution were obtainable for use on this system. This objection, however, no longer obtains. The Toronto Electric Motor Company are now prepared to furnish alternating-current motors to operate on single-phase circuits from ordinary lighting transformers, without the use of special starting



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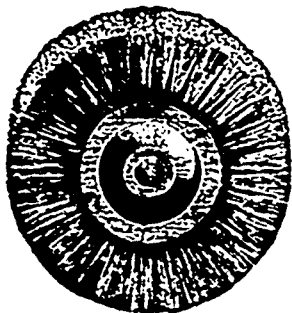
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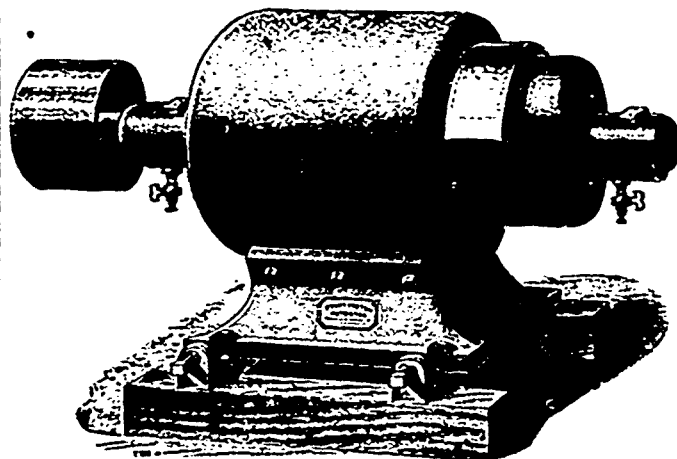
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