SPARKS.

The first transformer was constructed by Faraday in 1831.

Arrangements will shortly be made to light the town of Athens, Ont., with electricty.

The wires are being laid which are to operate the electric milway at St. John, N. B.

All the necessary arrangements have been made for the transmission of power to operate the electhe apparatus at the Montreal exhibition.

Messrs. Guillaume & Felton, manufacturers of electrical wires and cables, Germany, have cabled for space at the coming Montreal electrical exhibition.

Mr. Allen, of Gloucester street, Ottawa, has invented an electric light hanger, for the patent of which he is said to have had some good ofters.

Mr. D. Thomson has succeeded Mr. Clarke as manager of the Hamilton Electric Light and Power Co. It is rumored that Mr. Clarke will represent the Brush Co.'s interests in Canada.

Negotiations are said to be in progress for the purchase and reorganization by a syndicate of the Simia Gas Co., the intention being to increase the stock to \$100,000, and introduce the electric light.

The Fort Wayne Electric Co., through its Canadian agents, Mr. W. J. Morrison, Toronto, and Mr. A. J. Corriveau, Montreal, has signified its intention of presenting to McGill University, Montreal, a valuable electric light plant.

The important fact is announced that the London Edison Light. Heat and Power Co. has been organized to introduce an underground-electric light (incandescent) and power system at London, Toronto capitalists are said to own onethird of the capital stock, which amount to \$75,-000.

The recently completed telephone line between London and Paris has two complete circuits, so that if an accident happens to one the other is available. Astrand of copper weighing 160 pounds per mile composes each conductor, while each strand is covered with alternate layers of a composition and guita percha. The four conductors are twisted spirally around each other, and the strand thus formed is covered with twisted hemp. while outside of this is a covering of sixteen galvanized iron wires also spirally wound.

A recent issue of the Zeitschrift fur Elektrotechnik gives some interesting particulars on the duration of currents employed in telegraphic transmission. According to this journal the currents from a Morse instrument have a mean duration of 0.125 seconds; with the Hughes from 0 04 to 0.05 seconds; with the Meyer multiple 0.007 seconds; with the Delaney multiple 0.002 seconds, and with the Wheatstone automatic 0.0018 seconds, at the rate of 600 words per minute, giving 33,600 currents per minute.

The Hamilton Electric Light and Power Co. has been organized with a capital stock of \$200,ooo, the whole of which has been subscribed. The officers elect are: R. Æ. Kennedy, president. Robert Thomson, vice-president, J. V. Teetzel, Q.C., secretary-treasurer; D. R. Dewey, H. S. Stephens, of Hamilton, H. M. Pellatt and W. H. Howland, Toronto, and D. Graham, Montreal, directors. It is understood to be the intention of the new company to add largely to the plant and buildings for the purpose of supplying incandescent lighting and power.

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One 36 inch belt 123 feet long.

One 38 inch belt 100 feet long.

One 24 inch belt 100 feet long.

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