

SPARKS.

It is understood that negotiations are in progress with a view to installing an electric light plant at Port Maitland, Ont.

The by-law authorizing a bonus of \$21,000 to the Port Dover, Brantford and Berlin Electric Railway Co. was carried in Berlin, Ont. a few days ago.

The time for receiving tenders for lighting the streets of Toronto by electricity and gas and for the supply of electric energy has been extended to June 15th.

The town of Toronto Junction, Ont., will issue debentures to cover the cost of installing an electric light plant. An expert has estimated the probable cost of a plant at \$17,000.

The Manhattan General Construction Company, of Newark, N. J., had the most extensive of the many arc light exhibits at the recent N. E. L. A. convention at Chicago. In the basement of the hotel this company had placed a 50 k.w. two-phase 1000 volt 60 cycle alternator, which was driven by a direct current motor. This alternator supplied two circuits of series alternating lamps, one of 12 lamps in a parlor occupied by the company's exhibit, and another of 10 lamps on the hotel's regular arc light standards in the street. The former circuit also contained incandescent lamps and instruments to show the constancy of the current obtained by the regulator when the arcs were cut in or short circuited. To connect up these circuits required 2,000 feet of 1/2" covered wire. In addition to the two regulators in use on these two lines, the company showed a number of its standard sizes of the latest type, ranging in capacity from 12 to 100 lamps. The lamps shown in operation were of the latest type, with shunt regulating coils and

no series coils whatever. The shunt coil is concentric with the carbon holder, and a dash pot, also concentric, is provided to prevent the shunt coil from striking the arc too suddenly, the dash pot cylinder being cut away so that over the normal range of operation, once the arc is formed, there is no retardation or friction. The cut-out is electro-mechanical, the regulating magnet, in case it drops the clutch to its lowest limit, closing a by-pass around the arc, but through a magnet which holds the contact closed. With the shunt form of regulator used in this lamp, the power factor is improved over that of the series lamp, and, if desirable, the candle power of the lamps may be changed by simply varying the current, the arcs in this case remaining of constant voltage and not shutting up as they do in the differential form.

ELECTRICAL REPAIRS

In the large and well equipped factories where the manufacture of electrical apparatus is carried out under the piece work system, they find that repair work or apparatus sent in to be repaired or rewound interferes with this system, and in many cases they would prefer not to do this kind of work, as it is almost impossible to do it with dispatch and at a reasonable price. Knowing the above to be a fact,

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have arranged their works for repair work only. They keep armatures of nearly all makes of dynamos in stock, which they loan while repairs are being made. Their factory is so arranged that they can run night and day, and work can be finished in the shortest possible time. Telephone Main 3149.

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