



GAS TAR FOR PUBLIC ROADS.

Mr. M. G. Rimini, district engineer at Lugo, Italy, has been treating dirt roads with gas tar near Lugo, where there is considerable traffic. A section of road 750 feet long by 13 feet wide treated with tar has proven very satisfactory. The surface of the road has become hard and compact, the dust having firmly united with the road bed, while the rainfall does not penetrate, consequently there is no mud or slush. A road bed 12 feet wide thus treated will cost \$96 per mile, which is considered very economical. Further tests will be made before adopting this system on a large scale.

NEW STREET CLEANING MACHINE.

New to street-cleaners is a machine which not only sprinkles streets, but also cleans and sweeps them. It is the invention of an engineer in Dusseldorf, Germany, and it works automatically.

Its component parts are a sprinkling wagon, a dump wagon, and a device for raising dirt from the pavement. The driver, by moving a crank, lowers the brush to the ground, and the moment the machine begins to move, the brush begins to clean and the dirt is raised and thrown into a dump wagon. When the latter is

filled it is uncoupled and replaced by another.

As the dirt is raised the street is sprinkled, and in this way dust is avoided. Moreover, various experiments have shown that not only ordinary dirt but also large stones and other weighty objects can be removed from the streets in this manner.

This useful machine will work as well in dry as in wet weather, and the brush is so constructed that it will thoroughly sweep even streets which have numberless curves and depressions. Horses are now drawing machines of this kind in a few German cities, but in the near future they will be replaced by motors.

Experts say that it costs 40 per cent. less to clean streets with this machine than by the ordinary methods.

The construction of a main sewerage system in the city of Ottawa, which has been under way for three years, has been completed. In recognition of the services rendered by Mr. Newton Kerr, city engineer, in connection with the work, the council granted him one month's leave of absence and it is proposed to increase his salary by \$500 per year. The increase is based upon the fact that by careful attention to the work the engineer had succeeded in keeping the cost considerably under the estimate.

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The Engineers' Club of Toronto held their annual reception at their club rooms, 96 King street, on Wednesday evening, December 10th, when a very pleasant and profitable evening was spent by the members of the Club. President Major H. A. Gray made a most acceptable chairman. The musical part of the programme was contributed by R. A. L. Gray, J. Alex. Culverwell, A. A. Powman, Wm. Campbell, W. J. Fuller, and S. Gagne. The Engineers' Club now has a membership of one hundred.

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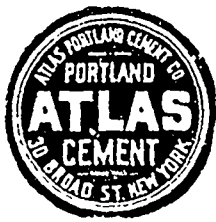
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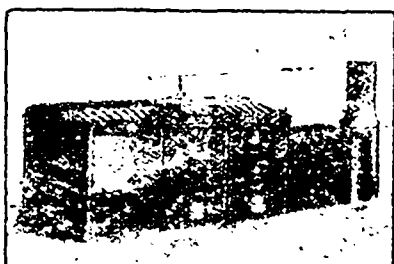
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