

Cast steel shoes, Canadian Steel Foundries, Montreal.
 Chain blocks, Herbert Morris Crane & Hoist Co., Toronto.
 Chains, Frothingham & Workman, Montreal; B. J. Coghlin & Company, Montreal; Bradlee & Company, Philadelphia.
 Concrete mixer, Foss & Hill Machinery Co., Montreal.
 Core shot drills, Canadian Ingersoll-Rand Co., Montreal.
 Electric brakes, Electric Controller & Mfg. Co., Cleveland; Jenckes Machine Co., Sherbrooke; Mead, Morrison Mfg. Co., East Boston.
 Electric controllers, Electric Controller & Mfg. Co., Cleveland.
 Electric elevators, Darling Bros., Montreal.
 Electric hoists, Mead, Morrison Mfg. Co., East Boston; Jenckes Machine Co., Sherbrooke.
 Electric motors, Canadian General Electric Company, Montreal.
 Electric overhead traveling cranes, Northern Crane Works, Walkerville.
 Electric portable drills, Canadian Pneumatic Tool Co., Montreal; Independent Pneumatic Tool Co., Montreal.
 Electric switchboards, Canadian General Electric Company, Montreal.
 Electric transformers, Canadian General Electric Co., Montreal; Moloney Electric Company, Montreal.
 Electric wiring, Canadian General Electric Co., Montreal; Northern Electric Company, Montreal.
 Eyebars, American Bridge Company, Pittsburgh.
 Flat cars, Canadian Car & Foundry Co., Montreal.
 Forged pins and sleeves, Bethlehem Steel Company, Bethlehem; Midvale Steel Company, Philadelphia.
 Fork wrenches, Canadian Billings & Spencer Co., Welland; F. H. Hopkins & Company, Montreal.
 Hand rivet forges, Canadian Blower & Forge Co., Kitchener, Ont.
 Hose fittings, Canadian Pneumatic Tool Co., Montreal.
 Hydraulic jacks, R. Dudgeon, New York City; Watson-Stillman Company, New York City.
 Iron tank cars, Universal Iron & Supply Co., St. Louis.
 Lightning arrester, Canadian General Electric Co., Montreal.
 Locomotive cranes, Industrial Works, Bay City, (purchased through F. H. Hopkins & Co., Montreal).
 Locomotives, Montreal Locomotive Works, Montreal.
 Machine shop equipment, J. Bertram & Sons, Dundas; Williams & Wilson, Montreal; Foss & Hill Machinery Co., Montreal; H. W. Petrie & Company, Montreal.
 Manganese bronze bushings, Paul S. Reeves & Co., Philadelphia.
 Manila rope blocks, Boston & Lockport Block Co., East Boston; Canadian Fairbanks-Morse Co., Montreal.
 Manila rope, Consumers Cordage Co., Montreal; Independent Cordage Co., Montreal.
 Mayari steel bolts, Pennsylvania Steel Company, Philadelphia.
 Metaline bushings, Metaline Co., Long Island City.
 Motor-driven track cars, Canadian Fairbanks-Morse Co., Montreal; Holden Company, Limited, Montreal.
 Motor generator sets, Canadian General Electric Company, Montreal.
 Oil Rivet Furnaces, American Equipment Co., Norristown.
 Paint spraying machine, Dominion Electric & Brass Goods Co., Toronto.
 Pumps, F. H. Hopkins & Co., Montreal; Canadian Fairbanks-Morse Co., Montreal; Williams & Wilson, Montreal.
 Push cars, Canadian Fairbanks-Morse Co., Montreal.
 Rivet and Bolt Steel, United States Steel Products Co., New York.
 Screw jacks, Mussens, Limited, Montreal.
 Springs, Canadian Steel Foundries, Montreal; B. J. Coghlin & Company, Montreal.
 Steamboat ratchets, McClintic, Marshall & Company, Pittsburgh.
 Steam hoisting engines, M. Beatty & Sons, Welland.
 Steel rails and fittings, Algoma Steel Corporation, Sault Ste. Marie; United States Steel Products Co., New York; Steel Company of Canada, Limited, Montreal.
 Storm detector, Northern Electric Company, Montreal.
 Structural shapes and plates, United States Steel Products Co., New York.
 Surveying instruments, Hughes-Owens Company, Limited, Montreal.
 Telephones, Northern Electric Company, Montreal.

Trolley wire, Northern Electric Co., Montreal.
 Trucks, Canadian Car & Foundry Co., Montreal.
 Turnbuckles, Cleveland City Forge & Iron Co., Cleveland.
 Twist drills and reamers, Eagle & Globe Steel Co., Montreal.

Wire rope, Dominion Wire Rope Company, Montreal; John Roebling & Sons, New York.

Wire rope blocks, W. W. Patterson Co., Pittsburgh; Boston & Lockport Block Co., East Boston.

Wire rope slings, Dominion Wire Rope Company, Montreal; John Roebling & Sons, New York.

OTTAWA SCAVENGING WAGONS

Andrew F. Macallum, C.E., commissioner of works, Ottawa, Ont., has designed a special wagon for use by the city's scavenging department. On account of the nature of the material handled and of the dumping arrangements necessary at the incinerator, it was deemed advisable that rear-dump wagons be used and not the usual type of bottom-dump. By an ingenious arrangement of a loose canvas strip laid in the bottom of an ordinary box wagon, Mr. Macallum has devised a means

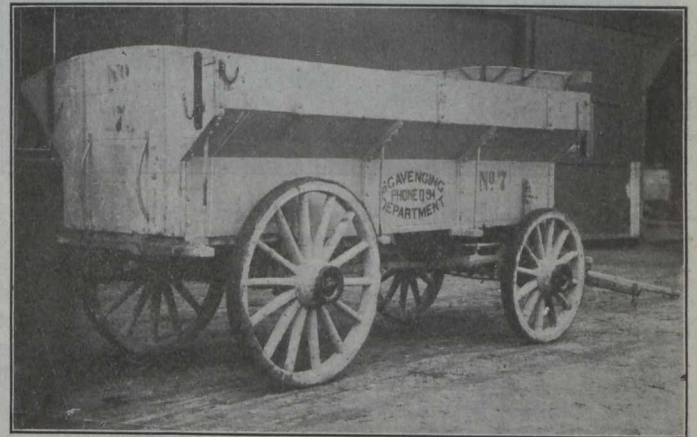


Fig. No. 1.—Ottawa Scavenging Wagon

whereby the load can be removed in one minute's time under favorable circumstances, although the time of unloading varies somewhat according to the composition and weight of the load to be rolled out.



Fig. No. 2.—Tail-board Down; Unloading Device in Place Ready for Another Load