THE NORDBERG AU-TOMATIC GOVER-NOR.

THE accompanying illustrations are of the Nordberg Automatic Cut-off Gear and Regulator.

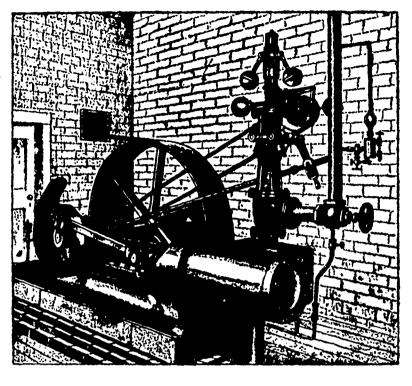
It is a combined trip and

cut off gear, designed to be strached to the steam inlet nozzle of slide valve, rocking valve and similar engines to regulate the speed. The steam is admitted at full beiter pressure, and cut off at a point corresponding to the demand for power, and expanded. The resulting terminal pressure is very much lower than if a throttling governor were used. consequently, with governor, less steam will be used than with the throt tling governor, as the ter minal pressure is the measure of the steam consumed. This governor consists of a double beat poppet valve operated by a double trip mechanism. A sensitive regulator sets the point of

cut-off according to the demand for steam.

or seven-eighths of it. stroke. An air dash pot causes the valve plates are reversible, and all of the eight edges can be used as contact edges. The cut-off gear is operated by an independent eccentric, and the regulator is driven by a belt. All these machines are provided with a patent safety stop which will stop the engine in case of accident to the governor or belt, or if the regulator should stick. It will maintain a uniform tension on the governor belt, and it will in no way interfere with the starting of the engine. It can be run at a speed of 200 revolutions per minute. The

Nordberg Antomatic Governor is manufactured in Canada by



Reliance Works, Montreal, and they inform us that they are enjoying a large and growing demand for it. They show letters from a number of manufacturers and others who are using it, the testimony of some of them being as follows: Jas Robertson, Montreal, I have found a saving in fuel of at least 25 per cent, and an additional amount of power, with much better regulation in speed." H. R. Ives & Co., Montreal, "We are not only saving 15 per cent, in fuel, but gaining 20 per cent. in power." Montreal Rolling Mills Co., Montreal, "In regard to fuel, using the regard to me, using the same coal, the first week we saved nearly 25 per cent." Moses Parker, non founder, Montreal, "The saving of fuel is about 15 per cent." Win Blueb Description saving of defisation 15 per cent." Win Buck, Brant-ford, Ont., "We consumed with the old governor 2,700 lbs. of coal for 10 hours run
—with the Nordberg Governor 1,900 lbs., and our regulation is perfect."

nand for steam. The range of cut-off Mesers Darling Brothers have fitted up a special plant for manu-obtainable is from zero to three-fourths, facturing this governor, and are prepared to meet all demands for They mvite correspondence.

> to drop gently onto the B. Greening Wire Company, Hamilton, Ont., have sent us a the valve seat. All copy of a brochure recently published by them entitled, "Wire: contact edges about its Manufacture, Antiquity and Relation to Modern Uses." It the trip gear are made of removable wire decorated the sacerdotal robes of Aaron 1,700 years before hardened plates of Christ; and it alludes to a specimen of wire made in Ninevels 800 these steel. These years B.C. About the year 1600 it is recorded that at Tintern years beginning the sacerdotal robes of plates of these years B.C. About the year 1600 it is recorded that at Tintern years beginning the sacerdotal robes of the sacerdotal Abbey, on the Wye, pine and needles were manufactured by a Mr. Groening, who, it may be supposed was an ancester of the people to whom we are now indebted for this little book. At any rate, about the year 1799 Nathaniel Greening, of Tintern Abbey, commenced the manufacture of wire at Warrington. It was with this concern that the late B. Greening served an apprenticeship to the business, and in 1858 removed to Canada and became the founder of the business now conducted by the B. Greening Wire Company. The book is exceedingly interesting, and contains a wealth of information which it would be difficult to obtain from any other source, presume it will be sent to any who may apply for it.

> THE Legal and Commercial Exchange of Canada, whose headquarters are at Toronto, with branches in many other parts of the Dominion, have sent us a copy of their 1893 Reference Book which gives most important information regarding the commercial stand. ing of we suppose about every person, company and co-partnership doing business in Canada. This edition does not differ from pre-vious ones in so far as the superior style of rating is concerned, telegraph code and other advantages specially adapted for all business men, whether financiers, manufacturers or merchants, but the new revision of the whole Dominion evinces extreme carefulness. Some new and important features indicate the trend of trade in Canada. The first portion quotes Ontario, Manitobs, North-West Territories and British Columbia, while the second quotes Quebec and the Maritime Provinces. This arrangement has been made so as to allow of two volumes being issued to suit firms both in the east and west. There has been a desire for some time past to have a dividing line in some classes of goods, and this division of the Reference Book anticipates as usual the requirements of the time. The book is of a size convenient for office or pocket, the type is of clear agate, and the bind. ing is of the most tasteful description. There are many most valuable features of the book which are not observed in other similar Messrs. Darling publications, the desirableness of which will be readily observed on Brothers, at their examination.