

The Canadian Engineer

ESTABLISHED 1893.

WITH WHICH IS INCORPORATED

THE CANADIAN MACHINE SHOP.

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TORONTO, APRIL 5th, 1907.

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THE CANADIAN MACHINE SHOP

ISSUED WEEKLY IN THE INTERESTS OF THE
CIVIL, MECHANICAL, STRUCTURAL, ELECTRICAL, LOCOMOTIVE,
STATIONARY, MARINE, MINING, METALLURGICAL AND
SANITARY ENGINEER, THE SURVEYOR, THE
MANUFACTURER, THE CONTRACTOR
AND THE MERCHANT IN
THE METAL TRADES

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SPECIAL NOTICE.

Subscribers, advertisers, and the public generally are notified that "The Canadian Engineer" is now represented in British Columbia by Mr. Oswald Barratt at our office, 417 Richards Street, Vancouver.

Outstanding accounts, which formerly would be payable to the preceding agents, the British Columbia Agency Corporation, will be payable to Mr. Barratt, who is authorized to act on our behalf.

CONTENTS OF THIS ISSUE.

Editorial.	Page.
Hands Across the Sea	117
Railway Accidents	119
Mineral Wealth of Ontario	119
Pig Iron	119
Editorial Notes	120
Market Conditions	121
Book Reviews	122
Grand Trunk Pacific	124
Canadian Waterway to the Atlantic	125
Montreal's Water Supply	128
System in Industrial Establishments	130
Steel Rails	132
Asphalt Work in St. John, N. B.	134
Minerals of Commercial Importance	135
Canadian Mining Institute	136
Electrical Indicator for Water Tanks	141
Metallic Packing	142
Prevention of Railway Accidents	143
Placer Mining in the Klondike	145
Schools and Fires	149
Australian Railways	149
Canadian Government Ice-Breaker	150
International Patent Record	151
Notes	154
New Publications	154
Catalogues and Circulars	154
New Incorporations	156

HANDS ACROSS THE SEA.

II.

Possibilities of an Iron and Steel Clasp Between Britain and Canada.

The number of manufacturing establishments, the value of their machinery, motive power, tools and implements, in 1901, is an interesting index to the state of the market for machinery. Again it is impossible to give later statistics than for the year 1901. In order to facilitate reference, the figures for each province are given in detail.

Province.	Estab-lish-ments.	Machinery and motive power.	Tools and imple-ments.	Total capital.
British Columbia.	392	3,538,399	1,817,565	22,901,892
Manitoba	324	1,619,006	255,225	7,539,691
New Brunswick	919	5,202,803	1,047,945	20,741,170
Nova Scotia	1,188	10,607,179	3,555,180	34,586,416
Ontario	6,543	40,989,517	9,674,045	214,972,275
P. E. Island	334	217,000	313,018	2,081,766
Quebec	4,845	28,273,590	5,148,487	142,403,407
Territories	105	382,407	92,445	1,689,870
Total	14,650	90,829,901	21,903,910	446,916,487

The power employed in manufacturers establishment in 1901 was as follows:—

Province.	Steam engines.		Gas and gasoline engines.		Water wheels.	
	No.	H.P.	No.	H.P.	No.	H.P.
British Columbia..	415	22,048	13	102	20	618
Manitoba	147	10,796	10	75	4	140
New Brunswick ..	483	33,743	6	43	175	9,483
Nova Scotia	498	38,068	14	115	269	17,301
Ontario	3,319	181,652	156	1,455	1,172	77,313
P. E. Island	49	1,522	3	10	11	242
Quebec	1,580	89,455	37	238	1,031	116,455
The Territories	67	2,956	5	40	1	90
Total	6,558	380,240	244	2,078	2,683	221,642

Province.	Electric motors.		Other motors.		Supplied by other estab-lishments.	
	No.	H.P.	No.	H.P.	H.P.	H.P.
British Columbia..	49	878	..	..	280	321
Manitoba	61	455	1	150	..	361
New Brunswick ..	41	459	2	14	400	431
Nova Scotia	53	1,135	6	72	158	152
Ontario	1,426	21,767	67	1,988	9,397	12,327
P. E. Island	1	4	..	..	..	..
Quebec	572	21,678	3	8	15,604	14,766
The Territories	3	85	..	..	..	..
Total	2,206	46,461	79	2,232	25,839	28,358

While the problem of securing the elevated tracks for the steam railroads within the city of Toronto is being solved, it is worth while bearing in mind what has been accomplished in Chicago. Within that city there were sixteen hundred miles of tracks on the level, which produced annually about five hundred accidents to persons crossing them. Half of the trackage has been elevated and the other half is in process of being lifted up. The total cost of the