## RAILWAY TRAFFIC RETURNS. FOR THE MONTH OF JUNE, 1869.

		127					
NAMES OF THE RAILWAYS.	Passebgers	bus slink solibung	Preight.	Cotal 1869.	8081 Int. T	Miles in Operation, 1869,	Miles in Operation, 1868.
	122596	\$316	\$ 151495	982827	8 247398	8514	3.5
Grand Trunk Railway (3 weeks)	1271	366	1592	3229	3763	24	03
•	17,007	600	8720	10617	5811	£ 5	25
Port Hope, Lindsay, and Beaverton )	3688	141	24694	28629	33142	8	55
Cobourg, Peterboroughand Marmora	Ţ	:	7401	7465	1525	71	64
Reachailte and Ottawa Railway	4149	208	12702	17419	92458	98	98
St. Lawrence and Ottawa Railway	55.95	240	2879	1114	7103	3	4
Carillon and Grenville Railway		:	:	:	:		:
Stanstead, Shefford& Chambly Railly St. Lawrence and Industry Railway	160	:	430	751	1066	17	1.3
New Brenswick and Canada Railway	2005	100	8536	10701	9266	116	10,
European & North American Railway.	1479	0.00	8965	17140	16325	108	9
Eastern Extension Railway	447	99	122	619	*****	73	
Nova Scotia Railway	:	:	:	:	:	:	:
Total	346739	35350	537182	919271	802225	2352	2320

"No returns

RISE IN GRAND TRUNK .- Herapath's Journal says: "The whole of the Preferences of the Grand Trunk have sprung considerably in the week. The 1st Preference has gone up 2, the 2nd Prefer ence 4, the 3rd Preference 3, and the 4th Preference 14. The large increase in the traffic, and the fact of the Chairman going to Canada and devoting months of his time to looking closely into the mranagement of the line, also the probable payment this year of the 1st Preference dividend in cash, are the causes of the spring in the prices. Indeed, we shall not be surprised to see the 1st Preference presently above 60, and the other Preferences advanced in proportion. If all go well the proper price of the 1st Preference is 80, at least, for after 1872 the interest rises from 5 to 6 per cent., and surely a six per cent. bond is worth 80.

A WIRE RASLWAY .- Herepath's Journal speaks of an invention now in use in Leicestershire, England, which obviates the necessity of cuttings, embankments, tunnels, viaducts or bridges, no matter how hilly the country to be travelled. It is a wire tramway, which consists of endless wire rope, supported on a series of pullies, carried by substantial posts, ordinarily about 150 feet apart, but which may be extended to 600 feet. One of the ends of this rope passes round a Fowler's clip-druin, worked by a portable steam engine, and this drives the rope at a speed of six miles an hour. Boxes are hung on the rope at the loading end near the station by a pendant, which is ingeniously arranged to preserve a perfect equilibrium, and at the same time to pass without bindrance over the supports. Each of these boxes is loaded with a handred weight, and the delivery is at the rate of two hundred boxes, or ten ton per hour, for a distance This description applies to a wire of three miles. extending that distance to some stone quarries in Lancashire. Already wire tramways on the same

Journal) that this generation may see goods carried by wire as commonly as messages. The tramway is not unlike an exceedingly stout electrical telestrophy and there is something exceedingly droll deliver to the Commissioner specimens of the ingraph; and there is something exceedingly droll in the sight of a regiment of well-laden trucks or boxes possing gravely along it at stated intervals and at a regular pace, much as if they were at aerial drill.

## THE PATENT ACT OF 1869.

The new Act which makes the law respecting patents uniform throughout the Dominion took effect on the 1st of July. Any person, a resident of Canada for at least one year before his application, having invented or discovered any new and useful improvement on any art, machine, manufacture or composition, not known or used by others before his invention or discovery and not in public use or on sale in any of the Provinces, may obtain a patent granting an exclusive property therein. An original and true inventor or discoverer is not deprived of his right to a patent by reason of having taken out a patent for his invention or discovery in any other country at any time within six months and preceeding his ap plication here. The patent may be granted to any person to whom the inventor or discoverer has assigned his right of obtaining it,

Any person, having been a resident of Canada for at least one year next before his application, and who has invented or discovered any improve-ment on any patented invention or discovery, may obtain a patent for such simprovement, but shall not thereby obtain the right of vending or using the original invention or discovery, nor shall the patent for the original invention or discovery confer the right of vending or using the

patented improvement.

In cases of joint applications, patents shall be granted in the names of all the applicants; an assignment from one to the other shall be registered.

The applicant for a patent shall make oath or affirmation that he verily believes that he or his assignor is or was the true inventor or discoverer, that he is or the assignor was a resident of Canada for one year before the application. The peti-tion shall specify the dominic of the applicant, the title of the invention or discovery, its object and a short description of it and distinctly allege all the facts necessary under the Act to entitle in writing. Any grant and conveyance of an exhim to the patent in laccompany it with coverition clusive right to make and use and to grant to specification in duplicate, describing the invention of discovery insuch full and exact terms as to discovery patented within the Dominion or throughdistinguish it from all contrivances or processes

for similar purposes.

The application shall correctly and fully describe the mode of operating contemplated by the applicant; shall state distinctly the contrivances which he claims as new, and for the use of which he claims an exclusive privilege; shall bear the ment under which such subsequent assignee may name of the place where it was made, the date, and be signed by the applicant and two witnesses—in the case of a machine the specification shall fully explain the principle and the several modes in which it is intended to apply and work out the same; in the case of a machine or in arry other; case where the invention or discovery admits of illustration by means of drawings, the applicant shall also, with his application send in drawings in duplicate showing clearly all parts of the invention or discovery pand each drawing shall beer the name of the inventor or discoverer and shall have written references, corresponding with the specification, and a certificate of the applicant that it is the drawing referred to in the specification: but the Commissioner may require any greater number of drawings than those above mentioned, or dispense with any of them, as he may see fut one duplicate of the specifications and of the draw ings, if any drawings, shall be annexed to the patent, of which it forms an essential part, and the other duplicate shall remain deposited in the Patent Office

gredients, and of the composition of matter sufficient in quantity for the purpose of experiment, whenever the invention is a composition of matter.

An intending applicant for a patent who has not yet perfected his invention or discovery may file in the Patent office a description of his invention so far with or without plans. This document. ealled a careat, is to be preserved in secrecy by the Commissioner until the patent issues. If application be made by any other-person for a patent with which the careat may interfere, the Commissioner shall give notice to him who filed the caven and such person shall within three months after such notice take the other steps necessary in the application for a patent, unless the person filing areat shall within four years from the filing have made application for a patent the careat shall be void. Under certain circumstances the Conmissioner may object to grant a patent, but his decision is subject to appeal to the Governer in Conneil

In case of interfering applications for any patent the same shall be submitted to the arbitration of three skilled persons one to be shown by each of the applicants and the third by the Commissioner whose award shall be final. If either applicant shall fail to choose an arbitrator the patent shall

No letters patent shall extend to prevent the use of any invention or discovery in any foreign ship or vessel, where such invention or discovery is not so used for the manufacture of any goods to be vended within or exported from Cana

Every person who, before the issue of a patent, has purchased, constructed or acquired any invention or discovery for which a patent has been obtained under this Act, shall have the right to use and veral the specific article, but the patent shall not be invalid as regards other persons by shall not be invalid as regards other persons by reason of such purchase, &c., by the first named or those to whom he may have sold the same; unless the purchase, &c., was made more than one year before the application for the patent or the use extended for a longer period than a year.

Every patent shall te assignable either as to the year before

whole interest or as to any part by an instrument others the right to make and use the invention or out any one or more of the Provinces or any part of the Provinces shall be registered in the office of the Commissioner. Every assignment affecting claim.

The fees payable to the Commissioner of Patents,

are:-	1
On a petition for a patent for 5 years\$20	00
extension for 5 to 10 years 20	00
" " 10 to 15 years 20	00
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On longing a cartering	00
On asking to register an assignment.	00
attach a discipline to a patent	
" for a copy of a patent with speci-	00
Reaction	U
On petition to reissue a patent after demand	
and on petition to extend a former patent	
to the Dominion, for every unexpired	
year of duration of patent	96
The nates twhen granted shall be issued	for

The patent when granted shall be issued five years, renewable for a second and third periods. of five years cach; but every patent is sub the condition that it shall cease at the end of three years unless the patentee shall within that period have commenced and shall after such commencement carry on in Canada the construction or m ufacture of the invention or discovery patented in plan are said to be in course of erection in France, italy, and Spain, and it is probable, (says the science, unless specially dispensed from so doing unacture or the invention or discovery plan are that any person desiring to use it is probable, (says the science, unless specially dispensed from so doing may obtain it or cause it to be made for him at