copy a may be of the signific	stitute has attentially and state of the sta	ning. Featu Illy unique, eproduction	res of this o which may , or which i	opy which alter any may			l k r	ui a ét exemp pibliog eprod	té pos laire d raphi uite, d méth	sible de qui son que, qu ou qui	e se pi t peu ii peu peuvo	rocure t-être (ent exi	r. Le uniqu nodifi iger u	s déta es du (er une ne mo	laire qu' ils de ce point de image idification indiqués	t vue on
1 1	Coloured covers Couverture de c	•						1		red pag de coul	•					
	Covers damaged Couverture endo							4	-	damage endomi		:				
1 1	Covers restored Couverture resta							1	_	estore: estauré						
	Cover title missi Le titre de couv	_	que						-	discolo: décolo:						
	Coloured maps/ Cartes géographi		uleur						-	detache détaché						
1 1	Coloured ink (i.e Encre de couleu			**						hrough arence						
1 1	Coloured plates Planches et/ou il	=	•							y of pri é inégal			ession	1		
1 /1	Sound with other Relié avec d'auti		n ts							uous p	_					
a L	ight binding ma long interior ma a reliure serrée listorsion le long	argin/ peut causei	r de l'ombre	ou de la				c 1	Compi	es inde rend un n head	r (des er tal) inde	m:/			
w b II	llank leaves add vithin the text. een omitted fro se peut que ce ors d'une restau	Whonever pom filming/ rtaines page	possible, the	ese have ajoutées					ïitle p 'age d	e de l'e age of e titre (n of iss	issue/ de la i	,				
m	nais, lorsque cel as été filmées.			· · · · · · · · · · · · · · · · · · ·				1 N	itre d	ie dépa sad/	rt de			** *•		
i i .	Additional comments:/ Commentaires supplémentain :s:															
	m is filmed at t ıment est filmé			· · · · · · · · · · · · · · · ·		•										
10X		14X		18X			22X				26X		T		33) X	
	12X		16X		20X				24X				29X			32X



PUBLISHED }

ewspaper devoted to the Lumber and Tir ber Industries published in Canada The onlu

8UBSCRIPTION \$2.00 PER ANNUM

VOL. 6.

PETERBOROUGH, ONT., MAY 1, 1886.

NO. 9.

A SHORT line of railway from Broad street Ottawa, to the Chaudiere lumber yards, is to be constructed at once by the Canada Atlant. Railway Company.

Ir is said that the Ontario Lumber Company have sold their last year's stock, about 6,000,000 feet, cut at G. W. Taylor & Co.'s mill, for \$13 a thousand.

THE schooner Jessie Drummond, loaded with lumber, and bound from Toronto, Ont., to Cawego, New York, was caught in the storm of April 6th, and lost 50,000 feet of her cargo.

GEORGE M. BROWN and S. S. Wilhelm are said to have purchased 320 acres of pine land in town 18-5 west Michigan, estimated to cut 8,000,000 feet of logs. Consideration \$35,000.

THE schooner Lynx, of St. John, N. B., fo New. York, lumber laden, was wrecked off Milk island, Mass., April 8th. The crew was saved. The vessel and cargo were partly inmred

It is reported that Judd & Goddard, of East Saginaw, Mich., have sold to the Eddys and Averys of Bay City, 2,000 acres of pine land on Tequamenon river, upper Michigan, estimated to cut 30,000,000 feet of logs, for **276,000**.

THE Berlin Mills Lumber Company, at Berlin Mills, Me., will save the sawdust at their mills the coming season, for use in the pulp furnaces of the Glenn Manufacturing Company and the Forest Fibre Company. That is one way of working sawdust into paper.

THE new dock and flour warehouse, at West Superior, opposite Duluth, will have a total length of 1,800 feet. Timber will be sunk 18 feet under water, dredging for that purpose to begin as soonas the ice goes out. The Manitoba railroad is behind the enterprise.

MR. J. WHITESTOR, in addition to the 700,000 taken out for the Muskoka Mill & Lumber Co., reported a few weeks ago, has also taken out for himself, in Chaffey township, 1,000 000 feet which he has arranged to have manufactured at Gravenhurst.

MAN named George Southerland was recently engaged at Noxon Broe', establishment, Ingersoll, in operating a circular saw, when the piece of wood which he was sawing was thrown from the saw and struck him upon the face with such fearful violence as to cleave it open from forebead to chin.

Mr. ISAAO, Scorr is taking out a second cargo, 200 cords, of poplar, at Point Aux Pin

in this direction, where their are immense for- miles it flows through a country very little ests of soft woods suitable for their purposes,-Algoma Pioneer.

14th. They were drawing in Masson's shanty, obtained. The severity of the extreme north and one of the concern teams broke through the ice. Mr. McCormack's team was near then Columbia, is greatly modified by the warm and was going to the assistance of the other ocean currents coming from the China Sea. team when he broke through. The team was worth \$300.

An employee in Walker's saw mill, Calgary N. W. T., named John Monshan, was caught by a belt and hurled directly on one of the saws. His left arm was terribly lacerated, and the saw penetrated the left breast almost through the ribs. The arm was amputated above the elbow and he may recover.

THE Eastern Lumber Company has been incorporated by Jacob Reidler. F. Ferguson and Francis Beidler, all of nicago, and connected with the South Branch umber Co. The object of the new company is arry on a ard and lumber business at the East with. headquarters at Tonawanda, N. Y. atock, \$100,000.

ONE of the schooners engaged in the lumber trade of the lakes is the Harrist Ross, an old craft that was in "Perry's victory" naval engagement on Lake Erie. She is now in dry dock, Chicago, undergoing repairs. It is claimed that shot have been dug out of some of the old timbers of the vessel, and this is adduced as evidence that she was really in the famous fight of 1813.

FROM recent observations, Captain Pillsbury finds that the strength of current of the Gulf Stream is invariably on the Florida, instead of the Bahama, side of the stream. He has found the temperature of the stream to range from 42 to 81 degrees. The greatest velocity of the stream at the surface is about four and a half

THE Belleville Ontario of a recent date says: Mr. James Buck has been rafting timber here for the Quebec market. A large gang of men are employed getting the timber in shape for the rafts. Two train loads have already arrivof weeks.

seventh among the rivers of the world. It tourist agencies, for the cheap conveyance of

for an eastern paper mill. Eastern paper man- takes its water from an area of 200,000 square ufacturers would do well to turn their attention miles, and its total length is 2,044. For 1,000 known; an expedition under the direction of Lieutenant Schwatka set out from San Francisco in 1883, and thus much valuable infor-THOMAS McCormack, of Deep River, lost a mation about the geography of the country valuable team of horses in Deep river, on April through which the Yukon flows has been latitude in many parts of Alaska, as in British

> The Thorncliff correspondent of the Pembroke Observer says :-There has been a considerable amount of square timber taken out in this district during the past winter, and it may not be uninteresting to your readers to give them the following statement received from an afficial source:

	Cubic ft.
Fraser & Screny, Chelmsford	125,000
" South River	
Wm. Allen. "	100,000
David Moore, Sturgeon River	
Barnet & Mackie.	500,000
R. H. Klock, Veuve River	200,000
Timmins & Gorman, Wahnapitai	175,000
McArthur Bros., "	200,000
Hngh Coburn, Sudbury	100,000
	2150,000

These are about the figures they will amount to in Ouebec. Besides this amount of square timber there was taken on about 260,000 saw logs. All the saw logs excepting Klock's will be carried over Mr. J. R Booth's railroad. Besides this about 50,000 saw logs go to Bay City, Mich , belonging to the Emery Lumberiur Co.

RDINBURGH INTERNATIONAL EXHIBITION.

Visitors to Scotland this year will find an additional attraction in the International Exhibition, which will shortly be of ened in Edinburgh, the ancient and historic capital of the country. While the exhibition is open to the products and industries of all nations, and of knots, but the fluctuations are frequent and these there will be a large display, the most prominent feature will naturally be illustrations of the industrial, scientific and artistic pursuits which occupy the time and energies of the Scottish people. Every industry throughout the length and breadth of the country will be adequately represented, and there will be many ed. The timber is loaded along the line at exhibits illustrative of the social life and habits Hastings, Sterling, Hoard's and Birdsall. The load this time came from Hoard's station. One tion has the patronage as well as the active suptram load a day will be brought in for a couple port of Her Majosty Queen Victoria and selections from the treasures in the royal palaces will be included in the exhibition. Special THE Yukon, the great river of Alaska, stands arrangements are being made with various

visitors to Scotland from nearly all parts of the world, and, doubtless, a large number of our countrymen will take advantage of this opportunity of visiting a country abounding in romantic scenery and full of historicassociations. The exhibition grounds, which belong to the municipality, are in the centre of the city and extend over an area of twenty-nine acres. The buildings cover about eight acres and are divid ed into large courts illuminated by electric light. The length of the central corridor alone is 750 feet. In consequence of the great demand for space the exhibition authorities had to greatly increase the area for allotment. Four principal divisions have been made in the arrangement of the exhibits, namely, the General. the Fine Art, Artizan and Women's Industries,

IMPORTANT DECISION.

The Court of Appeal delivered judgment on April 20th in the case of the Queen v. The St. Catharines Milling and Lumber Company, dismissing the defendants' appeal from the judg ment of Chancellor Boyd. The action is one brought by the Queen on the information of the Attorney-General of the Province of Ontario against the St. Catharines Milling and Lumber Company to have it declared that the Province of Ontario is entitled to 2,000,000 feet of pine timber cut by the defendants on property situate in the district of Algoma south of Wabiroon lake and between Lake Eagle and Lake Superior, and for an injunction to restrain the defendants from trospassing on that property. The company claim title to the timber, setting up leave and license from the Dominion Government. They deny title in the Province, and contend that the land in question was formerly the property of the Indians, and was by them ceded to the Dominion in consideration of large payments of money to the tribes, and that the Indian title passed to the Dominion by purchase as well as by inherent right. Chancellor Boyd heard the case in the first instance, and found in favor of the Province, and the defendants appealed to the Court of Appeal. The four judges are new unanimous in dismissing the appeal maintaining the right of the Province to the property in question. Messrs. McCarthy, Q. C., A. R. Creelman and W. Creelman appeared for the Company, and the Attorney-General of Ontario and Mr. Walter Cassels, Q. C., for the Province.

THE Canadian patent office record for March aunounces the issuance of the following patent of interest to lumbermen: No. 23.301, to Geo A. Haggart, Millbrook, Mich., for a drag saw No 23,302, to T. W. Smirle, Norwood and James Chapman, Rockland, Ont., for a saw swage; No. 28,465, to T. S. Disston, Philadelplua, Pa., for a shingle planing machine; No 23,473, to S. P. Dresser, Pleasant Mount, Ma., for a wood sawing machine.

Chips.

ALBERNI, B. C., wants a saw mill to provide lumber for the settlers.

EXTENSIVE forest fires are raging in the vicin ity of Tamaqua, Pa.

HALL & Co's barges will take about 5,000,000 feet of lumber this season between Toronto and Ogdensburg

MESSES GILMOUR & Co. have commenced the eason's operations at their Gatineau mills. Most of the Ottawa mills started on Monday.

An order for boxes to go to Honduras, Central America, is being filled by Hunter, Tilloston & Co., Muskegon, Michigan.

THERE was 42,000,000 feet of lumber shipped by rail from Saginaw valley between January 20 and March 31, of this year.

THE imput of logs on the Monominee and its tributaries, in Michigan and Wisconsin, this messon, is 435,000,000 feet.

Means, Thompson and Baker have sold out the Brydon shingle mill at West Gravenhurst, to Mr. Joseph Tuer of Barrie, for \$2,300.

THE Petrie Lumber Company, of Saginaw, has bought 13 500,000 feet of standing pine in Roccommon and Crawford counties, Mich., from Louis Huldebach, for \$33,000.

Mr. MEBRON HARBIS will fill a contract to supply 200,000 ties to an American railroad this summer and will buy up all along the Rideau and Ottawa rivers.

PERPARATIONS are being made, says the Muskoks Herald, by various lumber companies throughout the District, to start their drives. The high water will make running a comparatively easy task this season.

THE Manitobs Government has designated May 12 as a public holiday, to be known as Arborday, and the Lieut Governor of the Northwest territories has designated May 1 for a similar purpose.

THE body of Mr. Charles Serency, the Ottawa lumberman who was supposed to have fallen through a hole in the ice near Nippissing last December, has been found and taken to Portage du Fort for hurial.

THE first four masted schooner ever built on on the Pacific coast was recently launched at San Francisco to go into the lumber trade. Her name is Novelty, and she will carry 800,000 feet of lumber.

PINE land to the amount of 21,587 acres in Bayfield, county, Wis, was lately sold by the Omaha railroad company to the St. Croix Lumber Company and J. E. Glover for \$135-

THE planing mill of Mr. Thos. Orr, at Stratford, Ont., was totally destroyed by fire on April 12th. The fire broke out about 4 o'clock and originated in the drying kilu. Loss about \$10,000; no insurance.

THE log imput on the Winconsin and its tributaries for the season now closed, it is said, was 166,787,000 feet. Of this amount Wausau parties claim that 137,000,000 will go to that place for sawing.

Bie piles of white poplar wood, said to be largely used in the manufacture of paper, were drawn out in the winter, and deposited along side the Central Ontario railway track in many places, but the piles are very conspicuous in the vicinity of Big Springs and Central Ontario Junction.

DANIEL TATLOR. over 80 years old, of Schroom Eake, N. Y., a year or two ago had his hand mangled by a circular saw He got well of that and last winter he had his skull fractured while at work in his mill. He has fully recovered from that also, and is again ready to tackle a buzz saw or stand a crack on the head.

WILLIAM CARSON, president of the Valley Lumber Company, of Eau Claire, Wis., went p the Wisconsin Central to intercept the loggers st they came out of the woods, and distrib uto among them tracts, showing the folly of sponding their wages in saloons and low resorts, and urging them to attend the meeting of the Y. M. O. A. at Eau Claire.

CANADIAN LOGS TO MAKE MICH-IGAN LUMBER.

The following letter appears in the Montreal Gazette :

S:n,-If a doubt ever existed in the mind of any one, as to the propriety of our government adopting the suggestion of the Hon. Mr. Joly to increase the export duty on saw logs, it would be removed by knowing in what light existing arrangements are viewed by Michigan lumbermen. In the last issue of the Lumber man's Gazette, oi Bay City, Michigan, Col. M. Jeffers, of East Saginaw, says:-" I have bought from parties in Canada 500,000 acres or twenty townships, of standing white pine on the Serpent, Spanish and Musassaga rivers, Georgian Bay." This tract contains 2,-000,000,000 feet of pine timber with a saw mill at the mouth of Serpent river that cuts 40,000,-000 feet a year, with an iron steamer and s tow of barges. The whole plant costing \$400,-000." And after stating that Governor Alger of Michigan, and Col. Bliss, of Saginaw, are interested in the same region, he says: "We propose to bring the logs over and saw them in Michigan. We are Michigan men and hope to make our purchases inure to the benefit of our people here. Notwithstanding our investments in Canada, we still stand by protection for Michigan lumber."

In another part of the same paper the Hon. Isaac M. Weston, when criticising the Morrison Tariff bill, says :- "We now admit Canadian loge free of duty. On the north shore of Lake Erie Canadian saw mills are in ruins, but the mills at Tonawanda, N. Y., are employing thousands of American workmen, manufacturing Canadian logs towed from the Erie north shore. The Saginaw mills are running out of American stock and already they are looking to Georgian Bay for Canadian logs to cross the Huron lake and keep their mills and men at

So that the advantages Canada is to derive from sales of her timber lands to Col. Jeffers, the Governor of Michigan, Col. Bliss and others, is to have "her saw mills in ruins, her workinen out of employment and her timber towed over to Michigan, to be there made into lumber to compete with lumber manufactured in Canada, at a disadvantage of \$2 per thousand U. S. duty-all in the interests of these gentlemen, who, not satisfied with their good investments in Canadian timber, boast of their hostility to Canadian interests. No, gentlemen, not quite so fast, as Canadians we are slightly interested in this matter and will try to have our timber inure to our people here," and "still stand by the protection of Canadian lumler," We have no special desire that Cana dian saw mills should be in ruins," in order that "New York (or Michigan) saw mills may employ thousands of American workmen man ufacturing Canadian logs." If we cannot have free trade in lumber with you, let us have fair trade, cast in your lot with us, manufacture the lumber here, and enjoy equally with ourselves the privilege of contributing \$2 per M to the revenues of your country on any lumber sent there. It is bad enough to have our timber pass into the possession of strangers at a tithe of its value, but the country should at least be entitled to what little benefit it might derive from having the timber manufactured here. We have not such a superabundance of pine timber left that we can afford to part with it entirely in the interest of our cousins across the line, however much we may admire their disinterestedness in relieving us of it now that they acknowledge they have about used up their own.

The United States tariff on Canadian lumber is \$2 per M. The Canadian export duty on saw logs is \$1 per M. And since the United States Government admit logs free, there is a clear advantage of \$1 per M in favor of manufacturing Canadian logs in the United States. This discrimination against ourselves the Mich igan lumbermen, who control the action of Congress by preventing the removal of duties from lumber, flatter themselves will be quietly submitted to by us, but it is well to let them know at once and distinctly that while we are now, and have at all times been, ready to remove the export duty on saw logs when the United States lumbermen permit their servants THE

Gutta Percha & Rubber Mfg. Co'y

T. McILROY, Jr., Manager.

MAIN OFFICES and WARRHOUSE at the Factories, 185 to 155 West Lodgo Avenue, TORONTO
-P.O. Box 494. .P.O. Box 494.

The largest Manufacturers in the world of Vulcanized India Rubber Goods for mechanical purposes.

Rubber Belting from ONE to SEVENTY-TWO inches wide. Hose, for conducting, suction and steam. Packing, Cloth Insertion and pure Tubing of all kinds. Rubber, Linen and Cotton Fire Hose. Leather Belting, Extra heavy American Oak Tanned.

A Full Stock always on hand. Write for Price Lists and Discounts.

Works also at NEW YORK and SAN FRANCISCO

New York Lumber Auction Co

OFFICE AND YARD, Foot West 21st Street, New York City.

REGULAR SALES will be held during the year 1886, as follows:

Tuesday, April 6th, May 11th. do do June 8th, July 13th. do

Tuesday, August 10th, September 7th, do do October 5th, do November 2nd. and Tuesday, December 7th.

Sales commence promptly at 10.30 a.m. Wm. Easton, Auction'r

At each of these same we shall offer a full and c ruplete assortment of the lest grades of

HARDWOODS AND PINE LUMBER.

Dealers and consumers will find it to their profit and advantage to attend. Catalogues giving the inspection of each lot offered can be had at the yard on the day of sale, or will be mailed on appli-Address cation.

New York Lumber Auction Co'y (Limited)

Foot of West 21st Street, New York City.

in Congress to remove duties from Canadian of deals have now a very bare appearance. The lumber, yet we are disposed to favor in any way by fiscal arrangements, the closing of Canadian saw mills in order that labor that should be employed in Canada should find employment in United States.

The question then is as to what would be s fair rate to fix for the export duty on saw logs? In order to foster Canadian manufactures it would, of course, be best to have a rate almost prohibitory, but I should not propers this, and think that \$4 per M would be reasonable. That 1s, \$2 to counterbalance the United States duty on lumber and \$2 more for national protection, a sum claimed to be very moderate for this pur pose by all United States lumbermen.

Trusting that our Government may grant us, as our United States friends are so fond of saying, this moderate measure of protection,

I am, dear sir, Your ob't servant. WILLIAM LITTLE

GLASGOW.

The Timber Trades Journal of April 17th says :- The principal arrivals to note for the past week are a cargo of pitch pine and one of teak timber at Greenock. The arrivals of pitch pine since the beginning of this year are represented by a carrying tonnage of 11,000 tons; same period 1885, 5,178 tons, and 1884, 9,023 tons. In view of the ample stock of pitch pine on hand and moderate consumption, owing to quietness in shipbuilding, a light import will suffice for the wants of this market.

The arrivals of teak to Clyde this year have been by a carrying tonnage amounting to 3,927 tons, as against 4,376 tons corresponding date 1885, and 4,148 tons in 1864.

stock of deals they at present contain is about 800 St. Petersburg standards under that of a year ago, the decrease this year being principally in lower port pine deals.

There has been one arrival at Grangemouth within the past week, a cargo of battens from Drontheim, consigned to Messrs. Brownles & Co. The imports there up to this time of the year are never a large amount, but for the current year, so far, they have been unusually light

No auction sales of timber or deals have been held by brokers at Clyde ports during the past

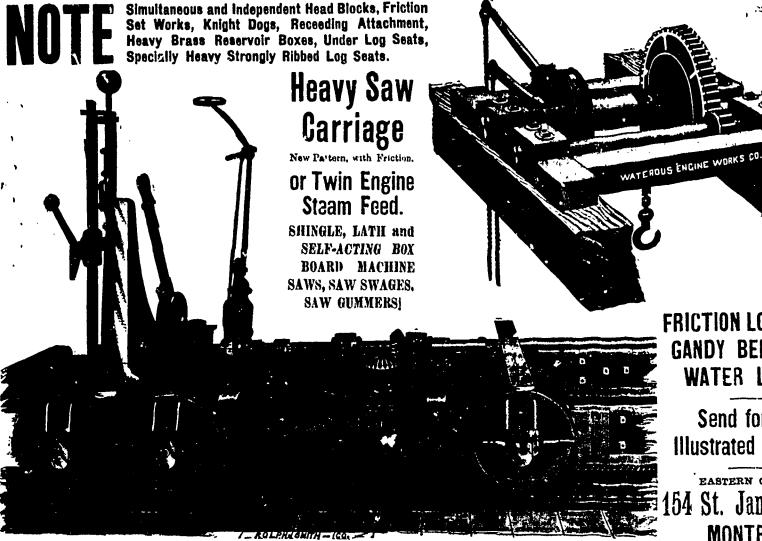
Some vessels forming a portion of the Quebec fieet left the Tail-of-the-Bank for the outport this week. They carry coal at a freight, it is stated, of 2s, 9d. a ton, which will just pay for the loading and discharging. The fleet is later this year in leaving the Clyde. Freights, Quebec to Clyde, about 18s. per load.

On the 8th inst. there was lauched from the shippard of Messrs. J. & C. Thomson, Clydebank, H. M. S. Brisk, the third of the Scout class of cruisers contracted for last year. The Brisk, which resembles her predecessor in every particular, is expected by her builders to attain a speed of close upon eighteen knots an hour.

It is a fact that can be verified everywhere that West's Cough Syrup is the only compound known to science, that can cradicate the seeds of consumption in its early stages, and completely cure Coughs, Colds, Asthma, Bronchitts, and all Threat and Lung difficulties. So'd by J. D. Tully, druggist. Price 25 cents, and 50 cents, and \$1.00 per bottle.

ons, as against 4,376 tons corresponding date 885, and 4,148 tons in 1884.

The yards at Yorkhill, Glasgow, for storage safe, sure, and effectual. Buy a hottle and give it a trial.



FRICTION LOG TURNER GANDY BELT. WATER LINK BELT.

Send for New Illustrated Circulars.

EASTERN OFFICE:-

154 St. James Street MONTREAL.

Waterous Engine Works Co., Brantford and Winnipeg

LUMBERMANS PRINTING AND STATIONERY.

We can supply anything in the line of BOOKS, BLANKS or STATIONERY for Lumber Shanties and Offices at City Prices, and everything necessary to a complete office outfit All PRINTING done in the Highest Style of the Art, and at Lowest Living Prices. BOOK-BINDING of every description got up in a Neat and Superior manner. ACCOUNT BOOKS Ruled and Bound to any desired pattern.

Address: "THE CANADA LUMBERMAN," Peterborough, Ont.

MUSIC, MAGAZINES

Bound Neatly and Promptly

Special Prices to Booksellers, Libraries and here sending a quantity.

THE REVIEW BOOK-BINDERY

Market Block, George St., Peterborough.

COX & CO.

STOCK BROKERS, PETERBOROUGH. Members Toronto Stock Exchange.

Private wire to New York and Chicago, giving con-tinuous stock quotations.

Buy and sell on Commission for Cash or on Margin.
All securitists dealt in on the Toronto, Montreal and New York Stock exchanges. Also Execute orders on Chicag: Board of Trade in Grain and Provisions. Orricz—Opera House Block, entrance up the Ar-cade, George Street, Peterborough.

SPECIAL.

Harness.

Whips,

Trunks,

Valises,

Satchels,

NEW.

B. SHORTLY.

MEN ONLY A quick, permanent, absolutely certain cure for lost or failing manhoyd, ner vousness, weakness, lack of vigor, strength and de velopment, caused by indicare 'ns. excesses, etc Benefits in a day; cures usually within a month-No deception nor quackery. Positive proofs, full description, hundrods of testimonials, with letter of advice mailed in plain sealed envelopes free of advice mailed in plain, sealed envelopes, free Eric Medical Co., Buffalo, N. Y.

Take Notice Health is Wealth

J. J. Turner has Something to Say.

If you want a good AWNING or TENT, send to the manufacturer who makes a business of it. Having had over twenty-five years experience in this business parties in want of anything in my line are sure of getting satisfaction. Tents of every description in stock and made to order. Also Horse and Wargon Covers, Rick Cloths, Waterproof Clothing, in fact anything and everything from a needle to an anchor.

NOTE THE ADDRESS:

J, J. TURNER, Sail. Tent and At ming Maker, East Pier, Port Hope. dist

Send 10 cents postage, and we will mail you free a royal, valuable, sample box of goods that will put you in the way of making more morey at once, than anything else in America Both serse of all ages can live at home and work in spare time, or all the time. Capital not required, We will start you. Immense pay for sure for those who start at once. Strusson Oo,, Portland, Mains.



DR. R. C. West's Nerve and Brain Transmer, guaranteed specific for Hysteria, Distinces, Convolsions, Fits, Nervous Nouralgia, Headache, Nervous Prostration caused by the use of alcohol or tobecon, Wakchinces, Mental Depression, Bottening of the Brain resulting in Insanity and leading to misery-docay and death, Premature Old Age, One box will cure recent cases. Each box contains one months treatment. One dollar a box, or six boxes for five dollars; sent by mail propaid on receipt of price. We guarantee six boxes to cure any crass. With each order received by us for six boxes, accompanied with five dollars, we will send the purchaser our written guarantee to refund the money if the treatment does not effect a cure. Guarantees is much only by J. D. TULLY Druggist, Sole Agent for Peterboro

It may be, and is, undoubtedly true that the primary objects of the road have been to connect the various Provinces of the Dominion, and open up her vast and fertile tracts of country to settlement and production; but if Canada had only these objects to depend on it would be questionable whether the enormous expense of so vast an undertaking would be over remunerative or warrantable under the most exaggerated ideas of prospective growth either in population or trade. When, however, in addition to these considerations, which are the chief, if not the only ones, the other various American Pacific lines of railway can rely upon, there comes to be added the grand national and Imperial idea for a continuous all-British line of transportation around the world of which the Canada Pacific railway is to form the main connecting link, then all doubts as to the warrant for its creation, and as to the unquestionable guarantees for its almost incal cuable prospective remuneration, will kick the beam in the scale of pure financial reasoning or vanish like the mist of a midnight dream of apprehension in the morning.

t is an axiom in science that a chain is no stronger than its weakest link. The truth of the same principle holds good as to the connecting links that hold a nation together. England should rely solely upon the Suez Canal, which the sinking of a single ship therein could effectually blockade, the tenure of her Aziatic and other eastern Colonial possessions would be held by a slendor thread, and the vast sources for her wealth of commerce, both present and prospective, would be liable to evaporation. It is not for that end that she has girded the globe with guns, the sea with ships, and the whole world with the products of her The Canadian Pacific railway not only labor. completes but connects her national chain of communication which almost any human combination would find it difficult, if not impossible, to sever. The attempt, however, would prove like the terrible shock of the most highly-charged galvanio battery to the reckless grasp of an uncalculating hand.

But these may not, without justice, be said to be mere ideas. Give us facts.

It is a well-known fact, as has been authoritively announced, that it is the intention of the directors of the Canadian Pacific Railway to place a line of fast steamers to ply between those countries and various ports of India, Australia and New Zealand. The early direct connection by steamers between British Columbia and those last named islands of the Pacific is also part of the Canadian Pacific Railway's programme.

Up till very recently the site for the western terminus on the Pacific has not been made publicly known. Within the past week, however, it is announced that the Canadian Pacific road has definitely selected the head of Burrard Inlet as the site for the western terminus. The port will be called Vancouver, and the construction of wharves and railway stations commenced forthwith. The track will be extended by the end of June next, twenty miles from Port Moody to Vancouver - the terminal port.

By or before that time it is expected that their line of steamers to Japan and China will be placed on the ocean route.

A recent despatch from Ottawa, by the cor respondent of a leading Chicago journal, states that "The reason why the Pacific Mail Steamship Company, of San Francisco, manifested so much anxiety to conclude an arrangement with the Canadian Pacific railway for connecting the lines of the latter with San Francisco has leaked out, and, in consequence, ex-Governor Perkins' recent visit to Vice-President Van Horne, of the Canadian Pa ific Railway, at Montreal, has a wider significance.

"It turns out that the Pacific Mail Steamship Company, which Mr. Perkins represents, receives a very large share of its earnings from the British Government for carrying the English mails; and that the company was notified a few months ago that such subsidy would cease in July next. This notification was sent out in pursuance of arrangements entered into between the English and Dominion Govern-

ments and the Canadian Pacific, Railway for the transport of all English mail matter, now sent by way of San Francisco to Japan, China, and the New Zualand and the Australian Colonies, to go by the all-British route."

The same correspondent learned from a leading member of the House of Commons at Ottawa-Hon. J. J. C. Abbott-who is the chief solictor of the Canadian Pacific Railway, that one of the most important measures to be submitted to the present session of the Dominion Parliament is the scheme settled upon by British and Dominion Governments and the Canadian Pacific Railway for a continuous all-British line of transportation from Great Britian via Montreal and Vancouver to Japan, China, New Zealand, Australia and the East Indiesmeasure which must greatly change the course of trans-Pacific and trans-Continental trade.

"Latest reports from San Francisco indicate that the mercantile community are greatly agitated over the possible results of the new arrangements."

I referred previously to the advantage which the more northerly position of the Canadian Pacific Railway gave it in a shorter distance from ocean to ocean over other and more southerly lines; but this land distance, so saved, is nothing as compared with the ocean distance saved by the water portion of the route of communication between Europe and Asia via the Canadian road over that between those continents via New York and San Francisco.

Vancouver, the Pacific terminus in British Columbia of the Canadian line, is 800 or 900 miles nearer Japan than is San Francisco; and the Atlantic terminus (as yet unfixed upon, but which must necessarily be in Nova Scotia,) will be about the same distance nearer England than is New York, as Vancouver is nearer Asia than San Francisco; so that we have nearly two thousand miles of ocean voyage saved in favor of the Canadian route. This in the transportation of cargoes of teas means a great deal more than the mere saving of time and expense, for, as every one knows, the ocean voyage is more or less destructive of the fine flavor and quality of teas-the chief reason why they are so carefully encased in tin to keep out the sali e effects of the sea water. The overland transport of teas from China into Russia is the chief reason for the superior quality of the tea drunk in the latter country over every other out of China. Hence from both these causes—the great shortening of the sea distance in transportation, and consequent lessening of expense, with the additional superiority preserved in the commodity-the Canadian ocean and land line may yet carry all the importations of tea for the United States and America as well as for Great Britain and Europe.

While treating of the probable through international traffic over the Canadian route, I would by no means undervalue the great local traffic which its opening will necessarily and naturally create. To say nothing of the vast agricultural products, lumber, coal and other minerals, the, as yet, almost unavailed wealth with which the Canadian Pacific coast now teem—a wealth not generally known—will add a source of riches in their fisheries as great, if not greater, than that which the Dominion now possesses on her Atlantic shores. The inlets of the Pacific coast of British Columbia abound withe salmon, cod of peveral species, anchery, sardines, dog-fish, sturgeon, that sometimes weigh 1,000 pounds, herring, whiting, trout, oysters, clams, and halibut. Whales are plentiful off the coast, and on the islands that fringe

There is a very general belief, especially in that city itself, that Halifax, Nova Scotia, will become the Atlantic terminus of this gigantic railway. But the tendency of the age is to select the nearest available points in all rail or steamship connections. For this ostensible reason, at least, the Canadian Government is pushing on its Intercolonial Railway to Louisburgh, in the Island of Cape Brenton. To reach it, however, a very wide and dangerous strait of the sea, from currents and ice in winter, has to be crossed by ferry—for the expense of a bridge would be as colossal as the structure or a pringe would be as colossal as the structure itself—and even when reached, Louisburgh, as a winter port, is for many weeks (sometimes great centres of business or pleasure in Europe collections exceeding the estimates by \$11,

fields of packed and drift ice extending for inside of, five or six days, with more comfort miles around the entrance to its harbour, which itself is often solidly frozen up.

On the north-easterly point of Nova Scotia it fur seals are found in abundance.

I have stated that the port for the Atlantic terminus of the Canadian Pacific Railway has not yet been publicly announced. And I may add that, although its present errangements with the International Railway, form Quebec to Halifax, connect it with the Atlantic at that port, its own shorter and more direct line from Montreal to such seaboard is not yet completed. When finished, as it soon will be, the distance between the two oceans, by rail, will be very considerably diminished. The great project now in hand by the Canadian Pacific Railway is the new gigantic railway bridge, across the St. Lawrence, which the company are building at Lachine-a work of equal magnitude with the Victoria bridge, of the Grand Trunk Railway, at Montreal. It is expected that the entire work will be completed in the spring of 1887.

It is stated that the bridge proper will be composed of three 80-feet deck-plate girders, eight spans of 243 feet each, two flanking spans of 279 feet each, four channel spans of 408 feet each, making the total length of the river portion of the bridge 3,550 feet. The steel for the superstructure is being imported from Scotland, and the bridge, when completed, will be one of the finest in the world. The trains of the Canadian Pacific will pass over it to the sea board, and its traffic thus be rendered independent of the Grand Trunk.

is, however, a harbour as if created by Nature herself especially for this purpose, which is the nearest available port on the continent of America to that of Europe. It is the harbour of Whitehaven, pronounced by Admiral Bayfield, R. N., "to be the best harbour on the whole Atlantic American coast," as it is, so he says, "the nearest available one to Europe."

Admiral, then Captain, Bayfield the author of the famous Admiralty charts-was commissioned by the British Government, many years ago, to survey the harbours of Halifax and Whitehaven, and report on their respective merits. He did so, and gave to Whitehaven the most unqualified perference. It is nearer Europe by 160 miles than Halifax is, thus saving that distance of dangerous coast navigation. It has the boldest and deepest f water in its three magnificent entrances, and is immediately accessible from the sea, requiring but a mile or two of pilotage, while Halifax requires over twenty, and is surrounded by many dangerous sunken rocks and ledges, as its many ales of wrecks can testify. Whitehaven has never been known to be obstructed by ice, while Halifax harbour has been often frozen over, and the fogs about its entrance are so proverbial as to make it dreaded by mariners. For facilities in coaling, Whitehaven hes almost in the midst of the coal-fields of Nova Scotia and Cape Breton, and its expenses in other respects as a great ocean entrepot would be nearly nil

However fast and magnificent are many of those ocean floating palaces for merchandise that now cross the sea, there are some respects in which, I believe, the ocean passenger traffic will, before many years, undergo a complete change—that is, in separating the passenger and mail traffic from the freight. The colossal hulks of 8,000 or 10,000 tons must be filled with freight or they eat their heads off, besides the danger any less of speed from being to heavily handicapped. Pleasure or business passengers do not generally now take a cargo ship from Dover to Calais, or Folkestone to Boulogne, or Holyhead to Kingstown, nor do they prefer a heavy-laden freight train, by railway, to the Flying Dutchman or Lightning Express; and when a fast line of ocean steamers, built to carry only the mails and passengers, is put between Milford Haven, in Wales, and White haven, in Nova Scotia, the directors of all other Atlantic lines of steamers which hope to carry passengers will discover the truth of these assertions about cargo ships and freight trains and passengers may reasonable expect to make

months) of that season closed to navigation by and America of but little over, if not even and far less apprehension of danger or disaster than they can at present.

QUEBEC FOREST

The annual report of the Hon. W. W. Lynch, Commissioner of Crown Lands and Forcets of the Province of Quebec has been presented to the Legislature.

A correspondent of the Montreal Gazette thus summarizes a portion of it:-

In the course of the year the Government decided, in view of the repeated applications which have been made to that effect, to offer to public competition a certain number of timber limits on the Ottawa river, north of Lake Tamiscamingue, in a tract designated as block A, previously granted to the North Shore Railway Company. After publication of the proper notices, the sale took place on the 25th February, 1885. Twenty-three limits comprised within the tract in question, and containing a series of 1,044 square miles, were put put up to auction at upset prices varying from \$70 to \$365 per square mile. A number of those present thought fit to refrain from offering any advance upon these prices. Consequently only four limits, comprising 204 miles, were disposed of for the sum of \$58,128, equivalent to an average bonus of \$282,95 pur square mile. In regard to the prevention of forest fires, it is a matter for regret, at least in respect of this Province, that the project which was conceived some years ago has been allowed to be first carried out by Untario. The success obtained there is such as to induce reflection on the part of our large limit holders, and the Minister is inclined to believe that after having taken communication of the remarks of the honorable Commissioner of Ontario, these gentlemen will not lend a deaf ear, as they have done hitherto, to the propositions which it is his intention shortly to address to them. total cost of the service for 1885 was \$7,911, of which sum one-half has been refunded by licensees, leaving the net cost of this service to the department to be \$3,955.50. It has been disparagingly said, in certain circles especially devoted to the consideration of important questions connected with forestry, that the information we possess respecting the extent and character of those lands of our Province which still remain covered with timber, is very uncertain and almost useless. In order to meet this deficiency, it is proposed shortly to have all the information which can be collected upon this subject exhibited upon certain regional maps soon to be published. The careful explorations which have lately been undertaken and successfully carried out in the Gaspe territory, and in that comprising the counties of Rimouski and Temiscouata, will enable the work to be begun with those regions. It is proposed to have similar explorations made in other parts of the Province during the coming summer, so that we shall before long be in possession of a sufficient amount of detailed and precise information to enable us to form a correct idea of the forest resources remaining at our disposal.

The depressed condition of the lumber trade and the general unessiness manifested in business circles during the fiscal year ended on the 30th of June last, as well as during that immediately preceding it, had, as was to be expected, a most unfavorable influence upon the revenue of my department. This stranstion seems to have reached its extreme limits, and from the signs of activity now everywhere apparent the Minister looks with confidence for the return of more prosperous years. The cut of timber during the winter of 1884-5 was a little larger than that of the preceding winter, and from information received from the different agencies of the Province he is led to believe that the number of logs made during the present season will exceed that of last year by at least 10 per cent. The manufacture of square timber will be small, which, from a certain point of view is not be regretted; but that of other timber will be more than sufficient to make up for the deliciency. The statement of the receipts of the department shows a more

ORIGIN OF WOOD TURNING LATHE

The date of the invention of the wood saw and the turning lathe connot be given, as they are older than our so-called civilization, or even the chronicling of years by man. The saw is undoubtedly older than the lathe, the latter being a mechanical appliance denoting a considerable advance on the path of civilization. In the "Flint age" of the archeologist, the earliest acquaintance we have with man, flint saws are found along with knives, scrapers, hammers, axes and arrow heads, the teeth of which are in some cases alternately chipped from contrary sides to give set to the teeth. Instruments with jagged edges for cutting wood would be amongst the first productions of man when the use of metals was discovered. Connected with the sawing of wood it is interesting to note that we have the old personal names of sager, jager, and jagger, from the Scandinavian or Teutonic sag, a saw. The wood turning lathe down to a century ago was a very different thing from the lathe of to-day. In its old form it represented a high antiquity; this was the pole or dead centre lathe. In this lathe the piece of wood required to be turned was secured in two centres fixed in two movable pieces of wood known as puppets, or poppets. The puppets were fastened at the distance from each other required by the size of the work in hand. When the piece of wood to be turned was fixed between the centres a cord was passed around it twice or thrice; one end of the cord was secured to the treadle, and the other to a spring pole affixed to the ceiling. By pressing the treadle a rotary motion was imparted by the cord to the wood it was desired to turn When the pressure on the treadle was released the spring pole caused the wood to revolve in a contrary direction. Hence it was only possible to use the cutting tools half the time. This is the reason this form of lathe has dropped out of use except at High, Wycombe and other chair-making places where it is used along with the rotary lathe. An illustration of such an original lathe is given in the Encyclopædia Britannica, nineth edition, xiv. 823.—Timber Trades Journal.

A PREP AT A PORTION OF THE OTTAWA VALLEY.

As the traveller proceeds on the C.P.R. from Mattawa westward, traversing the township of Papineau, Calvin, and Bonfield, he will not be very favorably impressed with the appearance of the land contiguous to the track. The railway in passing through these townships, runs for a distance of 25 miles quite near the Mattawa River, whose banks are very rocky and rough, and if he should bese his judgment of the quality of the land in the townships named, on the appearance of such parts as are visibible from the train, he would carry away very erroneous opinions concerning its value. The south half of Papineau presents some good land. where, with ordinary industry, a large number of families could obtain an ample subsistence. A very good road runs from Mattawa to the western boundry of this township, along which are located already a considerable number of families who appear to be doing well. At the terminus of this road will be found a large farm in a high state of cultivation, on which is situated the depot of Mesers. Hurdman & Lloyd, lumbermen. Should the travellers alight at Mackey's mills and follow the Amable du Fond river and its tributaries westward and southward, through the townships of Calvin and Bonfield, he will discover a large tract of excellent land. The soil is generally composed of yellow loam of a very rich quality, which, when first sown, imparts to all kinds of grain a growth of straw so heavy as to fall by its that the yield of crade pyrolimeous acid, tar,

own weight. The second crop is generally regarded by the farmer as better than the first on this account. There are about 400 families settled in those two townships, and they generally express their entire satisfaction with the product of their farms. Clearing is comparatively easy in many parts of there townships, because the primitive forest has been destroyed by fire, but it is a question open to discussion, whether or not the bush fires which swept away the forest, leaving the land ready for seed at a trifling cost to the farmer, did not at the same time greatly reduce the fertility of the soil. On arriving at Calendar, a station on the O. P. R., situated not far from Nosbonsing lake, he may, on ascending a neighboring promontory command a magnificent view of that body of water, which is about twelve miles long and two wide, and which abounds in the finest quality of fish. The lands drained by Nosbonsing and its tributaries are embraced in three townships, Bonfield, Ferris and Chisholm. No finer land can be found in the district of Nipissing than that portion of those townships which surrounds the lake to a distance of several miles in the interior. A few farmers are located here and they are doing well. The soil is generally of a yellow loam with clay bottom in this locality. There is a large amount of land not located yet in the territory described, especially in the township of Chisholm and along the Wisawasa river, which rises twenty or thirty miles south of Lake Nosbonsing and falls into South East Bay on Lake Niplesing, where J. R. Booth's mills are located. This territory is regarded as most favorably situated for settlement on account of the fact that the Northern railway bounds it on the west and the C. P. R. on the north.-Nipining

INVESTING IN CANADA.

Col. M. Jeffers, of East Saginaw, was in the city yesterday, having just returned from an extended visit to Canada. Discussing business affairs in that country he said :-

"I have bought from parties in Canada 500,000 acres, or 20 townships of standing white pine. The land is situated ou Georgian Bay, and upon the Serpent, Spanish and Mississaque rivers. There is upwards of 2,000,000 of feet of timber upon the tract. It is all white pine. There is no Norway pine in that region. I have paid a large sum upon the purchase, and would not sell out for a big advance. I have been engaged in the business of buying pine lands for the most of my life and think that nothing outside of the Saginaw valley was ever seen like this whole Georgian Bay country, full of good pine. It is far superior to the Wisconsin or Lake Superior pine. I think this is the biggest transaction that has taken place in pine lands in Canada. Upon the property at the mouth of the Serpent river there is a saw mill that cuts 40 000,000 a year; it costs \$250,000, has gang saws and every convenience, including an iron steamer and a tow of barges. There is a good harbor at the mouth of the Serpent river, with wharves, etc. The barges take the lumber to Chicago, Buffalo or any other port on the chain of great lakes. It is delivered precisely as cheap as if from the mouth of the Saginaw river. The whole plant cost the former proprietors nearly \$400,000.

"The Canadian Pacific railroad is on the northern boundary of the tract. A spur runs down through it, built to afford rail shipping facilities from the mill itself. I think no land could lay better both for rail and water transportation. It is well cut up by lumbering streams. Gov. Alger has a large amount of timber in the middle of these limits south of us. Col. Blist, of Saginaw, is also interested in the same region. We propose to bring the logs over and saw them in Michigan. We are Michigan men, and hope to make our purchases inure to the benefit of our people here. Notwithstanding our investments in Canada we still hold by protection for Michigan lumber, unless we have reciprocity or free trade applied to all articles of commerce between the two countries."—Detroit Free Press.

POOL PRODUCTS IN CHEMISTRY

PRODUCTS Les CHEMICIEN

L. VANKOUGHNET,
Deputy of the Superincent of M. Sensi,
at the yield of crode pyroligueous acid, tar,

Ottawa, 3rd March, 1886.

charcoal, and gas is almost the same with the most different woods. But the richness of the said waters in scetic said, and consequently the yield of dehydrated acid, vary greatly. In this respect the wood of coniferous trees is the least valuable. The wood of the trunk furnishes more acid than that of the branches. The wood yields more acid than the bark, and sound wood more than dead wood. Rapid calcination yields more gas at the expense of the condensed products and of the charcoal; it yields also the weakest acid waters, and the charcoal is more hygroscopic than that furnished by a gradual action. - Timber.

Gold in the Rooky Mountains.

Reports from the Selkirk range of the Rocky Mountains in British Columbia state that gold has been found in the beds of all the streams running fr - 'he eastern slope of the Selkirks into the C. aibia river. On Canyon Creek, lying a few miles south of junction of the Kicking Horse and Columbia rivers, several parties were to be seen washing gold from the bed of the creek, and making good wages. Further down the river were three mining camps, with men in each, preparing new flumes for placer mining. They acknowledged that two of their party had a few days previously washed out \$25 worth of the precious yellow metal in one day. Mineral prospects there, both placer and quartz, are said to be superior to anything seen before in these parts.

SEALED TENDERS, addressed to the Postmaster General, will be received at Ottawa until noon, on FRIDAY, 14th MAY, for the conveyance of Het Majesty's Mails, on a proposed outract for four years, six times per week each way, between

BOBCAYGEON & PETERBORO

from the 1st JULY next.

The conveyance to be made in a Waggon or Steamboat, via Bridgenorth and Ennismore.

The Mails to leave Boylaygoon daily, Sundays excepted, at such an hour as will ensure arrival at Peterborough in time for the despatch of the mails by the afternoon train to Port Hope.

Leave Poterborough as soon as possible after the arrival of the merning train from Port Hope and to arrive at Bobeaygeon in four and a half hours afterwards.

Printed notices containing further information as to conditions of proposed contract may be seen, and blank forms of tender may be obtained, at the Post Offices of Boccaygeon, Bridgenorth, Ennismore and Peterborough, and at this office.

DAVID SPRY,
Post Office Inspector.

Post Office Inspector's Office, Barrie, 8th April, 1886.



CEALED TENDERS, addressed to the undersigned, Dand endorsed "Tender for Indian Supplies," will be received at this office up to neon on TUENDAY, 20th APRIL, 1886, for the delivery of Indian Supplies during the fiscal pear ending 80th June, 1037, consisting of Flour, Bacon, Beef, unrecries, Ammunition, Twine Oxen, Cowe, Buils, Agricultural implements, Tools, &c. duty paid, at various points in Manitoba and the North West Territories.

West Territories,
Forms of tender, giving full particulars relative to
the supplies required, dates of delivery, &c. may be
had by applying to the undersigned, or to the Indian
Commissioner at Regins, or to the Indian Office, Win-

ipeg.
turtles may tender for each description of goods (or

hrites may tender for each description of goods (or for any portion of each discription of goods) separately of for all the goods calle 1 or in the behedules.

Each tender must be accompanied by an eccepted Cheque in favor of the Superintendent Ueneral of Indian Affairs on a Canadian Bank for at least five percent of the amount of the tenders for Munitoba and the North-West Territories, which will be forfeited if the party tendering declines to enter into a contract when called upon to do so, or if he fails to complete the work contracted for. If the tender be not accepted the cheque will be returned.

Tenderer must make up in the Money columns in the Schedule the total money value of the goods they offer to supply, or their tender will not be entertained. Each tender must in addition to the signature of the tenderer be signed by two sureties acceptable to to the Department, for the proper performance of the contract.

In all cases where transportation may be only year.

ntract. In all cases where transportation may be only par-In all cases were transportation may be only par-tial by rail, contractors must make proper arrange-ments for cupplies to be forwarded at once from rail-way stations to their destination in the Government Warshouse at the point of delivery.

The lowest, or any tender, not necessarily accepted.

Perhaps the most extraordinary that success has been achieved in modern science has been attained by the Dixon treatment for Catarrh Out of 2,000 patients treated during the past six months, fully ninety per cent, have been cured of this stubborn malady. This is none the less startling when it is remembered that not five per cent, of the patients presenting themselves to the resular practitioner are benefitted, while the patent medicines and other advertised cures never record a cure at all. Starting with the claim now generally believed by the most scientific men that the disease is due to the presence of living parasites in the tissues, Mr. Dixon at once adapted his cure to their extermination; this accomplished the Catarrh is practically cured, and the permanency is unquestioned, as cures effected by him four years ago are cures still, No one size has ever attempted to cure Catarrh in this manner, and no other treatment has ever cured Catarrh. The application of the remedy is simple and can be done at home, and the presents season of the year is the most favorable for a speedy and permanent cure, the majority of cases being cured at one treatment. Sufferers should correspond with Mesers. At. Dixon & SON, 305 King atreet west, Toronto, Canada, and enclose a stamp for their treatise on Catarrh.—Montreat Star

J. K. POST & CO. LUMBER MERCHANTS

And Shipping Agents.

OSWEGO, N.Y.

The American Hotel, BARRIE, ONT.

Collier St., Adjoining Market.

RATES REASONABLE, CENTRAL LOCATION, FREE BUS TO AND FROM ALL TRAINS.

EW Every accommodation for Commercial and Lumbermen. W. D. McDONALD, Proprietor.

J. T. LAMBERT,

Lumber and Commission Agent.

ORDERS FOR DIMENSIONS AND ALL OTHER KINDS AND GRADES OF

American Lumber

PROMPTLY ATTENDED TO.

Timber Limits and the Square Timber Trade a Specialty.

Office, Wellington Street, OTTAWA. 144

Johnston's Fluid Beef



The nourishing, palatable and warmth giving qualities of Johnston's Fluid Beef has caus invaluable preparation to before a favorite and fashionable beverage for the winter season. It is now obtainable on draught at the leading hotels and restaurants throughout the Dominion

TO YOU WANT



Examine the list of

DAILY AND WEEKLY MAIL

THE MAIL has become
The Mecognized Medium for Farm Ad-

The Recognized Medium for Parm any vertisements

And contains more of them than all other Canadian papers combined. It has yoncon readers of the right chose. ADVERTISEMENTS of "Farms for Sale" for "Wanded" as seried in THE WEEKLY MAIL, for each per word each insertion, or them by which is the word for five insertion, or them by with the word as help made on its THE DAILY MAIL at the and a helf made per word each insertion.

Address THE MAIL Toronto, Cam



INTERESTS OF THE DOMINION.

PUBLISHED SEMI-MONTHLY BY THE Peterborough Review Printing and Publishing Company (Limited), Peterborough, Ont.

		-
Terms of Subscription:		
One copy, one year, in advance	\$ 2	00
One copy, six months, in advance	ì	00
Advertising Rates:		
Per line, for one year	20	00
Per line, for six months	••	Õ
Par line, for three pionths		80
Per line, for first insertion		13
Per line, for each subsequent insertion to 8 mo's		ÕŠ
The terminal many than 10 lines (1 look)		v
Cards not occupying more than 12 lines (1 inch)	۰	00
per annum	0	w
Cards not occupying more than 12 lines (1 inch) for six months		00
for six months	٥	
Cards not occupying more than 6 lines per annum	- 5	00
Cards not occupying more than 6 lines, for 6 mo's	3	00
Special rates will be made for page, half pag	0 2	nd

Advertisements intended for insertion in any parti-cular issue should reach the office of publication at least four clear days before the day of publication, to

insure insertion.
All communications, orders and remittances should

All Communications by the All Communications of the Patraneoration of addressed and made payable to The Patraneoration of Raview Printing and Publishing Company (Limitely, Peterborough, Ont.
Communications intended for insertion in the Canada Lumberaman, must be accompanied by the name of the writer, not necessarily for publication, but as a guarantee of good faith. Communications to insure insertion (if accepted) in the following number, should be in the hands of the publishers a week before the date of the next issue.

be in the names of the publishers a week below the date of the next issue.

The Canada Lumnerman is filed at the Offices of Masses Savuez Deacon & Co., 154 Leadenhall Street, Loudon, England, who also receive advertisements and subscriptions for this paper.

PETERBOROUGH, Ont. MAY 1, 1886.

SCIENTIFIC FORESTRY

In the report by Prof. Wan. Saunders, F.R. S.C., to the Dominion Minister of Agriculture, on agricultural colleges and experimental farms it is satisfactory to find that the important subject of forestry has not been neglected. In fact in the letter of instructions directing Prof. Saunders to make the investigations on which he founds his report he was especially required to pay attention to the subject of forestry, particularly in regard to tree-planting in the Western States

As the result of his investigation Prof. Saund ers has to report that in many of the States particular attention is given to practical and theoretical forestry in some cases with very beneficial results. The central government at Washington is also evidently alive to the im portance of this matter, and makes a not unsubstantial provision for it. Very briefly ho records, too, what different European countries are doing in this respect. Especially valuable is the communication which he embedies from Mr. B. E. Fernon.

In the suggestion which Prof. Saunders also makes as part of his duty, he utilizes the information thus obtained. Though the primary object in view is the promotion of scientific agriculture, he shows himself not unmindful of the forest wealth of Canada, or of the necessity for conserving it. In his suggestion for the staff of the proposed colleges and experimental stations he includes a Superintendent of Forestry with appropriate duties. At the stations in the Northwest especially headvices the reservation of blocks of land for forestry purposes.

It is to be hoped that these and other sug gestions which have not been particularized will be adopted, for they cannot fail to be use ful. The Dominion Administration, not only as the central authority of our country, but also as having control of important timber tracts and of extensive prairies, part of which might well be devoted to forest, can very appropriately undertake this work,

UPPER END OF OTTAWA VALLEY.

In a second article on the upper end of the Ottawa valley the Nipissing Times says:-Twenty-four miles west of Northbay by the C. P. R., you approach the Sturgeon river. large and turbulent stream which flows into Lake Nippissing, and whose banks, until recent ly, have been untrodden by the lumbermen. At a point situated four miles above its mouth that river presents some very picturesque scenery. There are the celebrated Sturgeon Cascades which are an object of interest to both pleasure seckers and capitalists. There also is the singular gorge cut in the rock, as if done by art, through which the waters of a great river rush with terrific velocity, in a volume only thirty five feet wide. It is at the latter that the C.P. R. crosses the Sturgeon by means of an iron bridge, which, owing to the peculiar conformation of the river's banks, was erected at a com-paratively trifling cost. There, likewise, is the basin below the last fall where the river spreads out into a lake surrounded by high banks and covering an area of a mile in circumference. An intelligent travellor will linger here to enjoy the pleasure arising from gazing on one of the loveliest scenes found on the shores of the Nipissipg. This is the site of the village of Sturgeon Falls, whose commencement dates back to 1882. It possesses about three hundred inhabitants and is favored with the usual number of stores and public houses in a village of this size. There is erected on the basin described a steam saw mill owned by Mr. Clark, which is daily turning out a considerable quantity of sawed lumber; and there is also a water power saw mill built on the upper rapids and owned by Mr. Martin Russel, which is supplying a large amount of shingles and sawed lumber for the use of settlers ; and we are informed that Mr. Thomas Mackey is preparing to build a large steam saw mill on McLeod's Bay, a short distance from the village, where are annually shipped, by the C. P R., large quantities of square timber and saw logs for the lower Ottawa. The township of Springer in which Sturgeon Falls is situated and the township of Caldwell, lying immediately west of the former, which is being rapidly located. Those townships are traversed by 'wo other streams besides the Sturgeon, viz., ; Widow river and Cache creek, in the valleys of which lands of superior quality are found. On ascending the Sturgeon river ten miles, you reach the township of Field which, although reported to be one of the best townships in the district of Nipising, has not a settler located at the present time.

THE MISSION TO LUMBERNAN

An important though uncetentatious form of mission work to lumbermen has been carried on for several years by the Presbyterian Church. In order to make it as efficient as possible it has been trusted to the care and oversight of the Synod of Montreal and Ottawa, within whose bounds this field of effort chiefly lie . The importance of the work among those engaged in the lumber woods is at once apparent when their peculiar circumstances are taken into account. A large number of the men employed in lumbering shanties come from all parts of the Province of Quebec and others from Eastern Ontario. They are freed from all restraint of home influence. There are the long evenings when time hanges heavily on their hands. Sabbath is not a working day in the lumber camp, neither are its sacred hours devoted exclusively to religious worship. Much miscellaneous work is done on that day. It is almost inevitable that the moral atmosphere of the camps is not of any envating kind, and those who while at home have been trained to detter things receive evil impressions that linger in memory.

The committee having charge of the lumbermen's mission, as they have opportunity, send ministers and catechists to the shanties in winter. The missionaries are provided with religious and instructive literature, which is gratefully received and carefully read by all who receive At the recent meeting of the Synod of Montreal and Ottawa it was stated that in many cases the illustrated and other periodicals had passed from hand to hand and had been carried to distant regions where they continued to be read by many who could not have been reached otherwise

Another encouraging feature connected with the mission is the kind and cordial welcome accorded the missionaries. They have to undergo arduous and sometimes dangerous journeys in travelling from camp to camp. They have liter ally to endure hardship as good soldiers of Jesus Chaiat, yet in few instances indeed do they meet with any thing approaching rude treatment from those they visit. The Old, Old Story is generally listened to with respectful interest. The door stands wide open to the missionary, and great good may confidently be expected from his labour of love among this too much neglected

class.

Hitherto the work has to a large extent been sustained by members of the congregations in Ottawa, though others have given liberally to its maidtenance. Under the judicious management of the Convener, the Rev. Dr. Moore, of the Bank Street Church, Ottawa, whose resignation of the office was unanimously regretted, the mission has prospered; but all who spoke in the Synod appeared to be impressed with the conviction that still more vigoroug egort on the part of the Synod is required to make the mission what it ought to be.

It was resolved to apply both to the Home Mission Committee and the Board of French Evangelization for grants to aid in extending the operations carried on by the mission lumber men, and also to appeal to the congregations with the bounds of the Synod for collections to help forward the work. There is no doubt that finacially and in other respects the new Convener, the Rev. W. D. Armstrong, of Ottawa, will be able to present a still more encouraging report to the Synod next year .- Canada Presby-

CHIMNEY DRAUGHTS.

In order to support the combustion means must be provided for supplying the furnace with a continuous supply of air and for removing the products of combustion. Both of these objects are usually accomplished by the chimney, the products of combustion in their heated state being lighter than the external air tend to rise through the flue, and drawing air through the furnace, supply the required oxygen, the remainder, with the products of combustion passing off in their turn, and, by reason of their lightness, to maintain the draught.

It frequently happens that a draught which has been sufficient becomes impaired and unable to do what is required of it. The first and most natural cause which is looked to in this dilemma is obstruction, by the accumulation of soot in the flues and passages. If this soot is also deposited in the tubes and upon the heating surfaces of the boiler it di minishes the efficiency of the coal which is burned by interposing itself as a non-conducting coating between the fire and the water which it is designed to heat, rendering necessary the consumption of more coal requiring a stronger draught, which the passages in their choked condition are unable to supply.

Leaks in the chimney and masonry about the boiler have a decided and prejudical effect upon the draught, not only from the fact that air enters at those places which would otherwise come through the grates, but the air so entering is cold and heavy, and increases the weight of the column of air in the chimney instead of reducing it as it would in is rarified condition after passing through the fire.

Care should be taken in making more than one connection to a flue, first to have the lead ing flues so conducted that one may not have a decided advantage over the other, and second, that they do not enter the stack in such a manner as to interfere with each other. When flues enter a stack directly opposite to each other, deflecting plates should be provid ed in order that the entering a wrents may not each other. In large with flues entering upon all a cone is sometimes built in the centre of suf ficient heigh; to serve as a deflector.

The draught of a chimney is, of course, affected by the character of a boiler which is attached to it, and of the flues or passages through which the heated gases are conveyed to in. A return tubular boiler of equal area of cross section in the tubes will require a stronger draught than a vertical tubular, and the vertical will require has a stronger draught than a plain[cylinder boiler. fire.

In eases where, as it is frequently happens in city blocks, the boilers are situated in front and the chimney in the rear, a long and tortuous flue, sometimes decending, is used, allowance must be made not only for the increased friction of the flue itself, but for the heat which will be radicated from it, and which would otherwise ssist in sustaining the chimney draught.

We have heard the statement made that the draught of a chimney was decreased by the sun shinning upon it, and we have read the most profound arguments to the effect that it was retarded in some way by the actinic rays acting down upon it. If any such effect is produced by this circumstance we should be inclined to lay it to the lightening of the external column of air rather than any direct retardrtion of the inner one .- Boston Journal of Commerce.

RAISING OAK TRRES.

During the last few years large quantities of corns have been taken from this country for the purpose of planting. White oak acorns are preferred and they have been chiefly obtained in the State of Missouri. They are generally planted on sandy or broken land that is intended for pasturing sheep. In Great Britian sheep are accustomed to eat acorns, and it is considered profitable to raise them for sheep foud. No variety of oak has received much attention at the hands of the planters of fruit trees. They atate that the trees make a very low growth and for this reason they prefer to plant trees that grow rapidly and furnish fuel and timber in a shorter time. A foreign writer suggests the oaks may be raised to excellent advantage in connection with other varieties of trees that grow rapidly. He admits that oaks grow slowy while they are young, but states that they increase in size rapidly when they are filteen or twenty years old. He, therefore, recomends planting a row of oaks between rows of quick growing trees. The latter will be large enough to use for various purposes when they are from fifteen to twenty years old. If care is exercised they may be cut down so as not to injure the young oaks. These trees being removed the young caks will grow rapidly and completely occupy the ground. Oaks are easy to propagate as the acorns can be obtained at small cost and are almost certain to germinate. Acorns are much easier to manage than large nuts like those produced on the hicory or pecan tree. They can be planted where it is desired to have them grow, or in nursery rows, from which the small trees may be taken up when they are at a suitable size to de transplanted. The wood is excellent for fuel, timber and post,-N.O. Times Democrat.

Seasoning Green Wood.

Green wood cannot be properly seasoned or dried in five days, any more than green cheese can be ripened in that time, yet each of the nine lumber-drying kilns at the Pullman Car Works has a capacity to turn out 300,000 feet supposed to be fit for car-building, in the above time It is pretty generally acknowledged that kiln-dried timber must be injured in fibre, and so roasted on the outsides as to be brittle and unfit for many purposes. At least this is what a Chicago carriage journal thinks.

A NEW department says the Deseronto Tribune. was added to the ship yard during the past winter, viz. the manufacture of railway cars. Besides building a number of flat cars, Mr. Evans has repaired several passenger cars, and is now building a smoking and express car for the N.,T. & Q. Railway. It is now well advanced towards completion and experts pronounce the workmanship in every respects superior both in strength and finish. A passenger coach will be next attempted and the work of building cars will then become one of the industries of Deseronto, and give additional employment to many workmen. Mr. Evans intends proceeding with the erection of a car shop which will be 85 feet long and Ci feet wide. There will be two tracks. one for framing, &c., and the other for painting

A DISASTEROJS bush fire is now progressing in Canterbury, N. H. Five hundred acres have been burned over. Some of the land had some raluable standing timber, and the loss will be heavy. A large force of men is fighting the

Though air drying is the best and most certain way of promoting durability in wood without impairing its strength, the time it takes is often a great draw back; hence the immersion of the newly-felled timber is resorted to in order to arrest any tendency to change, by washing out of the pores of the wood all sap and other substances which tend to promote fermentation, and hence decay. Moreover, the soaking in water makes the wood less liable to twist and warp in subsequent drying, and when it is cut up into scantlings for use, be ides rendering it more proof against the attacks of worms, though its strength is supposed to be slightly diminished thereby, which seems to be borne out by the fact that the loss of weight is greater in waterseasoned wood than when it has been merely air seasoned. If placed in water it is better that it should be completely submerged, as nothing is so injurious to timber as being exposed to alternate wet and dry. The generally received opinion is, that for ordinary purposes a fortnight's immersion in runnig water is sufficient, though much must depend on the size of the bulks so treated. T. de Lapparent, one of the Government inspectors of timber in l'rance, recommends for timber used in shipbuilding one year's immersion in river water, two years in fresh, or three in brackish water, constantly being changed, to be followed by two years of air-seasoning. The gradual processes of air and water seasoning are the only ones which can be safely applied to timber in large scantlings; still, artifical drying may often be successfully employed in the case of smaller scantlings, more especially in the preparation of timber for joinery, for which purpose it should be quite dry and free from any tendency to shrink.

Amongst such systems we may mention drying in ovens or hot chambers, exposed to currents of air raging from 90° for hard woods and large sections, to 200° for soft woods in thin boards, the process being carried on until the wood has lost from one-fifth to one-third of its original weight, according to the purpose for which it is required to be used. Boiling and stoaming wood for three or four hours are often resorted to, as the subsequent drying is thereby rendered very rapid, and the tendency to shrink and twist is reduced to a minimum. whilst the wood becomes so pliable that ribs and planks can be bent to any required curve, and, if confined until dry, will readily retain the form so given them. Smoke-drying may also be employed at times with advantage; but carbonising or charring the outer surfaces of the wood, though very effectual in preserving it from the destructive influence of alternate wet and dry, such as the ends of posts let into the ground are so much exposed to, must never be regarded as a substitute for seasoning; for though keeping out external moisture, it effects ally imprisons that which is in the pores of the wood, and so hastens internal decay. While on this subject it may be as well to observe that paint, tar, and all similar waterproof coatings are only preservatives so long as the timber is already seasoned and free from moisture, as then they keep it dry; but if not, they become the most certain agents of destruction. For imperfectly seasoned timber the best preservative against the weather is a rough-swan face, which forms a shield against both sun and rain, and at the same time offers no check to the evaporation of the moisture from the poera of the wood .- Timber.

A. Remenisence.

A strange tragedy, that took place twelve years ago in the lonely woods of the North Shore of Lake Huron, is told in the Manitoulin Expositor of April 10. Seven men in employ of Williams & Murray, lumbermen, of Blind River, while taking up a load of oats and provisions in a boat to an inland station camped one raw night in Spring on the banks of the river. To shelter them from the wind they piled the bags of oats in a dyke, behind which they lay down to sleep. The dyke topled over during the night smothering them all. Mr. Murray found their dead bodies on the fatal spot three days after

THE length of the short line to be construct ed by the C. P. R. from Smith's Falls cast is 121 miles.

NEW YORK.

The following is the official list of the prices obtained at the New York Lumber Auction Company's sale at New York on April 13th :-Lot 1-White pine shelving, 1 inch, 12,829 ft, \$18.

Lot 2-Ash, 14 and 14 inch, firsts, 3,401 ft, seconds 5.247 feet : culls, 434 feet, \$27.

Lot 3-Hemlock joists, 2]x4x13, 924 pieces, 13 cents

Lot 4-Welnut and cherry, 1 inch, walnut firsts 291 ft.; seconds, 2,113 ft.; culls, 4,617 ft.; cherry,

Lot 6-White pine shelving, I inch s 2 s 3,615 ft.

Lot 6-Chestnut, 1 inch, firsts 101 ft.; seconds, 3,100 ft. : culls, 982 ft. \$14.

Lot 7-Chestnut, 1 inch, firsts, 389 ft.; seconds, 2, 791 ft.: culls. 913. \$15

Lot 8—Chostnut, 1 inch, firsts, 340 ft.; seconds, 2,710 ft.; cuils, 325 ft. \$15

Lot A—Chestnut, 1 inch, cuils, 10,785 ft.; \$9.50. Lot 9-Whitewood, 14 and 14 inch, firsts 5,177 ft, seconds, 3,541 ft., culls, 250 ft. \$29.

Lot 10-Hemlock joist 24x4x13, 937 pieces. 134 cents each.

Lot 11-Whitewood squares, firsts, 569 ft.; seconds, 1,072 ft.; cuils, 978 ft. \$17.50. Lot 12-Cherry, 1½ in., Ash, 1½, 2 and 3 in., Walnut

5x5 and 6x6 inch. Cherry culls 69 ft. Ash, firsts and seconds 116 ft., cults 31 ft. Walnut, firsts 111 ft.; seconde, 33 ft.; cults 64. \$33.

Lot 13—Whitewood, §, § inch; firsts 145 ft.; seconds

(planed) 1,607 ft.; culls (planed) 1,949 ft. \$11.

Lot 14-Whitewood, 1 inch, firsts 2,593 ft., seco ,064 ft. ; culla 935 ft. \$25.

Lot 15-White pine, 2 juch, box pine 7,626 ft. \$15.50 Lot 151-White pine, 11 inch W.P. cutting up stock

i,224 ft. \$23, Lot 10—Whitewood, 1 inch; firsts, 173 ft.; seconds 1,413 ft.; culls, 4,503 ft. \$18.50.

Lot 17-Whitewood, 2in. ; firsts, 5,268 ft. , secon 8,796 ft. ; culle, 437 ft. \$29.

Lot 18-Whitewood, 3 inch ; firsts, 1,590 ft, ; seconds 1,852 ft.; culls, 205 ft. \$28.

Let 19-Whitewood, 1 inch, culls, 13,084 ft. \$16 Lot 20-Walnut squares, 794 ft \$51.

Lot 21-Whitewood, 11 and 11 inch; firsts, 3,859 ft. seconds, 2,528 ft.; culls, 80. \$28.
Lot 22--Whitewood, 2 in., firsts, 3,405 ft.; seconds,

2,755 ft.; cuils 52 ft. \$22.50

Lot 28-Hemlock boards, 1x12x13, 644 pieces. 131 cents each.

Lot 24-Box pine, 2 inch, 8,182 ft. \$15.

Lot 25 -Ash flooring, 1 inch, T. & G. planed one side. 2 inch No 1 ash flooring, 11,133 ft. \$23.50.
Lot 26—Hemlock boards, 1x10x13, 924 picces. 121

cents each Lot 27-Walnut, 1 and 2 in., firsts, 45 ft ; seco

844 ft.; culls, 4,866. \$38. Lot 28--White pine 1 in. W. P. No. 2 cutting up tock, 18,208 ft. #24.

Lot 29-Whiteword, 4 in., firsts, 4,118 ft.; seconds, 2,494 ft.; culls, 275 ft. \$32,50.

-Hemlock boards, 1x10x13, 800 pieces. 13 cents each.

Lot 81-Walnut, 1 inch, firsts 144ft.; seconds, 1,333; oulls, 1,855 ft. \$14. Lot 32-Walnut 1 in., firsts, 195 ft.; seconds, 1,767;

culls, 2,363 ft. \$43 Lot 33—Whitewood, 2 in., firsts, 1,609 ft., seconds

2,638 ft.; culls, 996 ft. \$22. Lot B-Walnut Planks, 2, 23, 3, 33, 4 and 43 inch, firsts, 1,056 ft.; seconds, 1,802 ft; culls, 785 ft. \$90.

Lot C-Walnut squares, 4x4, 5x5, 6x6, 7x7 and 8x8 inch, firsts, 1,002 ft.; seconds, 1,227 ft., culls, 1,240 ft. \$75.

Lot 34-Whitewood, 11 in., firsts, 2,029 ft.; seconds 655 ft.; culle, 50 ft. \$30.50.

Lot 35-Whitewood, 3 in., firsts, \$,508 ft., seconds 2,764 ft. \$30.50. Lot 36—Whitewood, 11 and 12 in., firsts 3,965 ft.

conds, 3,582 ft.; culls, 649 ft. \$28,50 Lot 37-Whitewood, 1 inch, culle, 15,478 ft. \$14.50. Lot 38-W. P. Shelving, extra wide, planed 2 sides, 3

W. P. Shelving pl 28-16,751 ft. \$18 Lot 39-Walnut, 1 inch, seconds, 959 ft; culls, 1,

928 ft. \$44.50. Lot 40-Walnut, 1 inch, seconds, 1,042 ft., culls, 2,-

092 IL \$46. Lot 41-Walnut, 1 inch, seconds, 1,498 ft., culls, 1,

68 ft, \$50.50. Lot 42-Whitewood, 1 inch, culls, 4,151 ft. \$14.60.

Lot 43—Whitewood, 1 inch, culls, 4,243 ft. \$14.60 Lot 44—Whitewood, 1 inch, culls, 4,108 ft. \$14.60 Lot 45-Whitewood, 1 inch, firsts, 1,283ft., seconds 580 ft., culls, 2,687 ft. \$26.

Lot D-White pine shelving, extra wide, planed 2 sides, 3 inch, 18,152 ft. 2 M \$21.50, 2 M \$21.50, 1 M \$20 5 11 \$19 50 and 8,15) at \$19 00.

Lot 46-Whitewood, 2 inch, firsts, 1,066 ft.; seconds 1,744 ft.; culls, 684 ft \$25.50.

Lot 47-Whitewood, 3 inch firsts, 5,453 ft.; seconds, 909 ft.; culis, 315 ft. \$30.50.

Lot 48-Walnut, \$ to 4 inch, culls, 2,312 ft. \$26. Lot E-Whitewood, 1 and 11 inch, seconds, 566 ft. culls, 1,415 ft. \$23.

Lot 49-Whitewood, 11, 11 inch, firsts, 1,121 ft. seconds, 2,088 ft.; culls, 1,050 ft. \$24.

Lot 50-Walnut, 1, 11 and 14 Inch. firsts, 82 ft.; conds, 788 ft.; culls, 2,532 ft. \$40.

Lot 51—Walnut, # inch, firsts, 093 ft.; seconds, 345 ft.; culls, 1,658 ft. \$27.50.

Lot 52-White rood squares, firsts, 2,651 ft.; seconds 978 ft. ; culls, 628 ft. \$25.

Lot 53-White pine shelving, planed two sides, inch. 17,175 ft. \$17.

Lot 64-Walnut, 1 and 2 inch, firsts, 2,082 ft. econds, 4.285 ft. : culls, 524 ft. \$75.50. -White pine flooring, T. & G. planed one side Lot 65-

3 inch. 14,460 ft. 316. Lot 56-Hemlock joist, 21x4x13, 660 pieces. 12 cents each

Lot 57-Whitewood, 1 inch, seconds, 792 ft., cuits, 5,233 ft. \$18.50. Lot 58-Whitewood, 11 and 11 inch, firsts, 2,223 ft.;

seconds, 1,930 ft. ; culls, 144 ft. \$27.50. Lot F-White sah, 1 inch, firsts, 5,190 ft.; seconds,

2,695 ft. ; culls, 50 ft. \$34.50.

Lot 59—Whitewood, 1], 2, 2) inches, firsts, 0,815 ft.; seconds, 1,518 ft.; culls, 184 ft. \$31.

Lot 60—Whitewood squares, firsts, 2,647 ft.; seconds, 531 ft.; culls, 72 ft. \$29.60. Lot 61-Whitewood, 1 to 2 inch, firsts, 3,000 ft.;

seconds, 2,218 ft.; culls, 189 ft. \$20.

Lot 62—Wainut, 1 and 2 inch, culis, 8,665 ft. \$38,60. Lot 63—Wide pine shelving, planed two sides, \$ inch, 16,905 ft. \$14.60.

Lot 64—Quartered sycamore, 1, 11, 11 inch, firsts, 1,214 ft.; seconds, 627 ft.; culle, 162 ft. \$34.75. Lot v5-Whitewood, 1 inch, firsts, 2,381 ft.; seconds

4,606 ft. : culls, 1,628 ft. \$26.

Lot 651-Whitewood, 1, 11 and 11 inch, firsts, 5,668

ft.; seconds, 3,337 ft.; cuils, 729 ft. \$27.75. Lot 66-Whitewood, 1j in., firsts, 9,747 ft., seconds,

1,600 ft., culls, 49 ft. \$31. Lot 67-Walnut, 1, 11 and 2 in., seconds, 261 ft. mile. 1.178 ft. #32.

Lot 68-Whitewood, & inch, firsts, 2,871 ft. ; seconds, 4,244 ft.; culls, 5,103 it. \$17.50.

Lot 60-Hemlock boards, 1x12x13, 624 pieces. 14 cents each.

Lot 70-White pine, 1 inch, W. P. No. 2, cutting up stocks, 12,951 ft. \$18,50.

Lot 71-Oak timber, 5x12 inch, firsts, 5,627 ft.;

econds, 2,745 ft.; culls, 665. \$27,60. Lot 72—Whitewood, 1 inch, culls, 14,499 ft. \$14.25. Lot 73-Roofing boards, 1x10 D. & M. 14,107 ft.

\$16.50. Lot 74—Basswood, ½ inch, culls, 9,612 ft. \$7.00. Lot 75-Ash Balusters, 4 295 pieces 2x2, clear, and 1,323 do., 21x21, clear. 41 cents each.

-Cherry Balusters, 831 p.cccs, 2x2, and 189 do, 21x24, clear. 6 cents each

Lot 76 Ash, 13 inch, firsts, 1,285 ft., seconds, 8,766 culls, 351, \$26.

Lot 77-Whitewood, 1, 11 and 14 inch, firsts, 1,594 t.; seconds, 2,194 ft.; culls, 964 ft. \$21.00 Lot 78 - Whitewood, 1, 12 and 12 inch, firsts, 1,459

t., seconds, 2,001 ft., culis, 770 ft. \$20.50. Lot 79-Whitewood 13 inch, firsts, 4,790 ft., seconds

,479 ft.; culls, 500 ft. \$26.

Lot 80-Ash strips, 1 inch, clear, 2,648 ft. \$23.

lot 81—Ash strips, 1 inch, clear, 3,139 ft. \$23.60.
Lot 82—Ash strips, 1 inch, clear, 4,187 ft. \$23.
Lot 83—Walnut, 1 inch, firsts, 63 ft.; seconds, 813

ft.; culls, 697 ft. \$61. Lot 84—Cherry, 1 and 14 inch, seconds, 174 ft. culls, 214 13 in., and 7,299 ft. 1 in. \$19.

Let H-Whitewood culls, 1 inch, 11,007 ft. \$14.25. Lot 85-White sah, 1 inch, firsts, 2,934 ft.; seconds ,629 ft.; culls, 165 ft. \$34.

Lot 86-White ash. 1 inch. firsts. 2.197 ft. : seconds. 995 ft. 934.

Lot 87—Walnut, 1 inch, firsts, 2,400 ft., seconds, 5,

459 ft.; culls, 228 ft. \$78.50.

Lot 88-White ash, 2 inch, firsts, 6,752 fs., seconds,

1.00 88-Waine and, a man, in a star, in a st ft.; seconds, 2,107 ft.; culls, 4-3 ft. \$44.

Lot 90- Basswood, 1; inch, firsts, 378 ft., seconds, 1,692 ft.; culls, 1,630 ft. \$13. Lot 91 -Basswood, 11 inch, first. . 689 ft. ; seconds.

1,425 ft.; cuils, 932 ft. \$13. Lot 92-Basswood, & in., firs s, 780 ft.; seconds 1,-

820 ft.; culis 982 ft. \$13. Lot 93-Whitewood, 1 inch. firsts 6.319 ft., seconds.

2.642 ft. \$13.50. Lot 94-Whitewood, 1 inch, firsts, 8,779 ft. . seconds.

1,122 ft. \$32. Lot 95-Whitewood, 1 inch, firsts, 6,788 ft.; seconds,

2,834 ft.; culls, 343 ft. \$34.50. Lot 96-White pine 11 inch cutting up stock, 12,-

836 ft. \$17. Lot 97-Whitewood, 2 in., - ste, 4,433 ft., seconds,

4,216 ft.; cuils, 1,858 ft. .cd.
Lot 98-Whitewood, 1 in., firsts, 1,567 ft., seconds,

5,954 ft., cuils, 3,260 ft. \$22,50.

Lot 99—Hemlock boards, 1x10x18, 740 pleces. 12] cents each

Lot 100—White pine flooring, 3 in., T. & G. planed ne side, 14,378 ft. \$16.

Lot 101-Whitewood, 4 in., firsts, 1,942 ft. . secondis,

8,930 ft.; culle, 6,845 ft. \$65. Lot 103-Ahitewood, & in., firsts, 2,986 ft.; seconds, 4.496 ft. : culls, 282 ft. \$20.

Lot 104 Walnut, 1, 14, 2 and 24, firsts, 2,585 ft.; seconds, 4,525 ft. culls, 394 ft. \$70,60.

Lot 105-Hemlock boards, 1x12x13, 000 pieces, 12 cents each.

Lot 106-Ash, 1 Inch, firsts, 5,103 ft.; seconds, 2, \$70 ft.; culls, 266 ft. \$34.50.

TUG FOR SALE

Now on Georgian Bay Gross tons, 55.99; Length, 70 feet; Breadth, 15 feet; Depth, 8 feet. Was Re-built last Summer. Apply to

Ontario Lumber Company TORONTO.

J. & J. 1. MATTHEW

Ship Owners and Agents.

LUMBER AND TIMBER CARGOES A SPECIALTY.

TORONTO, Ont., 109 Bay Street.

GEORGE GALL

WHOLESALE and RETAIL

HARDWOOD LUMBER

MERCHANT

Car Lots sold on Commission, railway switch in to ard and plinty of room for storage. Yard corner of stachan and Wellington Ave. Office, 9 Victoria 8t. Telephone Connection.

FOR SALE

VALUABLE

Timber Limits

50,000 SAW LOGS

ON SEVERN RIVER

The undersigned being desirous of confining their operations to their Lakefield Mills on the Trent waters, offer for sale the following I mits .—

Township of Hindou, 70 square miles.

Oakley, 45 " Redout, 22 "

An area of 137 square miles.

These limits are estimated to contain 180 million feet of Logs, well watered, and afford means of short hauling from all points, and quick and cheap driving to Georgian Bay Are offered for sale together with plant, depots farms, 1,200 acres deeded lands and 50,000 logs, nearly all of which are on the main river, a large proportion of which are 16 feet long Apply to

R. & G. Strickland.

LAKEFIELD, ONT.

PROCURED in Can

ada, the United States. England, France, Germany Austria, Belgium, und all other countries in the world. Experts in all Patent Causes,



A CANADIAN SCHOOL OF FORESTRY.

The Toronto Globe's London correspondent says:—Somo renowed discussion has taken place here recently of Prof. Fream's suggestion to the effect that an Anglo-Canadian Forest School might be established with advantage. Professor Fream's proposition, it may be remembered, was that with aid from the Imperial treasury the Canadian Government might establish a Forest School, which would not only be a grat benefit in promoting forest preservation in Canada, but would also prove extremely serviceable as a means of training for English students in forestry. Several communications on the subject have appeared in The Conada Gezette, and these have now been supplemented by editorial reference in Forestry, the medium for the consideration of such matters in this country. The present time is in ways specially opportune for action on the part of the Dominion Government. The Select Committee, nominated last year by the House of Commons, report upon the desirability of establishing Imperial schools of forestry, will very shortly be re-appointed, and the whole subject will before long be brought prominently under the notice of the Imperial authorities. Prof. Fream proposes that the Canadian Government should take the matter in hand at once by securing the services of one or two thoroughly trained practical foresters who might acts as inspectors in the suggested school, and to whose care the management of large areas of forest land might be entrusted. In this way the valuable efforts of the Ontario Government to promote forest preservation would be most usefully and fittingly supplemented, and Canada presents such exceptional advantages over the old country for sylviculture that a very strong case could unquestionably be made out for Imperial support. Forestry commends the proposal, and expresses the hope that some action in this direction may shortly be taken. Caurot the matter be effectively brought under the notice of the Dominion authorities during the present waveling of Par liament? If their views were ascertained, and were found to be in any degree favorable to the suggestion, reports could then be made to the Imperial Government.

TIMBER FOR CAR BUIDING.

The effect of the increased activity in car building upon the prices of lumber used for sills, says an exchange, is significant as an indication of a future acarcity and a permanent advance in prices. It is true that during the past three years railroads have, as a matter of economy, made their old car equipments last as long as possible without incurring the expense of renewals. The time, however, has come when the old stock must be replenished to meet the requirements of existing traffic, to say nothing of any prospective increase of traffic which is likely to attend a general revival in business. The simultaneous demand for new cars for a large number of roads that have been starving their stock may give a stimulus to the lumber market that may turn out to be merely temporary, to be followed by easier prices as soon as the stock at the yards shall be increased to meet the demands.

This, however, remains to be seen. Certain it is that the sources of supply of the most de. shable timber in the construction of cars are not becoming more abundant or nearer of consumption. White oak was once considered indispensable for sills, truck frames, any part of a car exposed to severe strains, but its growing scarcity and the demand for it and other lines of construction have led to the use of Norway southern yellow pine, of which there is a more abundant supply at less cost. These timbers have of late been extensively used for freight car sills of every kind, especially at the south, and stand the test for service, except for end sills, practically as well as oak. Southern pine that has not had its strength and solidity impaired by tapping, is very stiff and durable. The further south it grows the more resinous, heavy and serviceable it is, and along with Norway pine is likely to be a staple material for car sills as long as the supply lasts and prices are not prohibitive. But even should the increase cost exceed the limits of economy, and Perley & Pattee's.

as it probably will in the course of time, there are other woods as yet but little used in car work that will become available. Spruce has already been tried, and if the testimony in its favor is reliable it makes excellent sills. Hickory is also spoken of by those who have used it, and there may be other woods, as yet untried, that may be found equally well adapted to the purpose.

Furthermore, there is no telling to what extent timber preserving processes may be developed under the spur of economy. Chemical treatment, it is true, might not add very much to the strength of a sill to resist strains, but moisture might be excluded and decay and rot prevented, which would, of course, prolong the service. Paint is now relied upon to do this and would do it more effectually than it does if it was applied more frequently and thoroughly.

As a last resource, when the forest shall be thinned to the point of extirction, we shall have the ere beds and smelting furnaces to fall back upon, and iron cars will at least become a necessity, their cheapness and durability will be recognized, and the weary waiting of their many sanguine advocates abundantly rewarded. But, we are sorry to say, both cars and advocates must bide their time, which is for Oswego. not yet.

MICHIGAN LUMBERMEN AND OUR FORESTS.

Canadians are not generally aware of the extent to which the Michigan lumbermen are accuring the best timber limits in the Georgian Bay district. We reprint to-day from the Detruit Prec Press an interview with Col. Jeffers. a Michigan lumber merchant, in which that gentleman mentions that he has purchased 500,000 acres of timber land in Canada. Col Jeffers is only one of many Michigan lumbermen who are buying up as rapidly as possible our western forests in order to replace the disappearing Michigan ones.

Of course of Michigan lumbermen choose to pay the necessary price, they cannot be kept from acquiring our lands; but the Government has in its own hands the power of preventing the constant loss to Canada which accrues from the possession of these limits by the Michigan lumber merchants. They all have mills at Saginaw, and as the United States Government does not impose a tax on saw logs, they raft them across Lake Huron, and saw them in Michigan, thus giving to foreigners that employment which should in justice go to our own workingmen. Col. Jeffers in his interview said :-

"We propose to bring the logs over and saw them in Michigan We are Michigan men, and hope to make our purchases inure to the benefit of our people here."

We, in turn, propose that the Canadian Government should spoil the little game of Col. Jeffers and his compatriots by placing heavier export duties on logs. They would then be obliged to either utilize the present Canadian saw mills, or erect new ones. In either case they would have to expend in this country thousands of dollars which at present go towards building up Saginaw. Of course it would be rash to take any action pending the consideration by Congress of the Hewitt Bill. which provides for the removal of the present American duty on sawn lumber, but if that measure should be rejected, the Canadian Parliament should not for a moment hesitate about increasing the export duty on logs. Selfpreservation is the first law of nature. - Ottawa Journal.

THE OTTAWA RIVER FLEET.

The first barge of the season to be loaded is one which commenced receiving a cargo of match blocks at Pattee & Perley's dock yesterday morning for Prince's splint factory at Buckingham Basin. The barge is the John Neville, commanded by Capt. Beaton.

Steamer Allen Gilmour, Cart. Bangs, and tow of six barges will likely load laths at the end of the week at I'ronson and Weston's docks.

Steamer George A. Harris and tow of seven barges will take on a carge of lumber early next week for American ports, at Eddy's, Booth's tow of six barges will start to load at the end of the week at E. B Eddy's wharf.

Mesers. D. Murphy & Co.'s large fleet of 67 barges will begin loading next week for Montreal, Quebec, Whitehall, N Y., and Burling-

Steamer Thousand Island Rambler is now being put in readiness and will start ferrying between Hull and Ottawa next Monday.

Steamer Gatineau, of the Merchants' Desnatch Line, will load for Montreal at the beginning of next week on the Ottawa river, and proceed to Montreal, returning with a cargo of merchandise destined for this port.

Steamer Ida, Capt. Garrett, which has been improved to a large extent, will be launched from Miller's shippard early next week, and will go through to Mentreal, returning with merchandise and passengers for Ottawa and intermediate ports on the canal between this and Kingston.

Steamer Express, Capt. Mansfield, will recommence the ferry service for the season between New Edinburgh and Gatineau Point early next week.

On Monday or Tuesday next the tug Sir John and tow of five barges will load lumber

Steamers Hiram Easton and Resolute, and team barges Welshman, Water Lily, and Col. By, with their respective tows of barges, will be ready to lock down light from the canal into tne Ottawa river about the 5th of May.

The repairs to the Rideau Canal here are being rapidly pushed forward under the able supervision of Mr. Carrol. It is calculated that it will be ready for traffic the first week in May.-Journal April 21st.

A SAW MILL IN A QUEER PLACE

Among the old jokes that called in question (very absurdly) Mr. Jefferson's practical sense was one to the effect that he but a sawmill on the top of a mountain, and had finished it before he thought where the power was to come from or how the logs were to be got to it. One is reminded of this when, in pass ing westward over the Chesapeake and Ohio Railway, just below Sewel, he casts his eye to the top of the mountain opposite, towering up five or six hundred feet, and sees a sawmill perched up there, like an eagle upon its eyrie. As of the fly in the amber, he will ask, "how the devil did he get there?" Mr. A. M. Donelson, a Scotchman, conceived the idea. He moved a thirty or more horse pow er engine on the road to Cotton Hill, and thence around through Fayette, to its wonderful perch. With one or two other engines of less power he is sawing up a large quantity of fine oak and poplar, and transporting it to the Chesapeake and Ohio road. But in what way, is the funny part of it? Should your attention be called to it, otherwise you eye would nardly catch sight of an immense wire cable fastened at or near the mill, and the other end close to the Chesapeake and Ohio road, spanning the awful chasm. Then the timber enclosed in an iron frame is suspended by a swivel to the cable, with a hig rope or cable fastened to one end of it and so played out as to regulate the decent, is somewhat the description an intelligent young man on the cars gave me. I should have deemed myself lucky to see a carload in transitu. It reminded me of the picture in my geography when an urchin, of a man in Peru or Chili suspended over one of the awful chiffs by a rope hunting for birds eggs.—Ex.

SEASOLING TIMBER.

Though air drying is the best and most certain way of promoting durability in wood without impairing its strength, the time it takes is often a great draw back; hence the immersion of the newly-felled timber is resorted to in order to arrest any tendency to change, by washing out of the pores of the wood all sap and other substances which tend to promote fermentation. and hence decay. Moreover, the soaking in water makes the wood less liable to twist and warp in subsequent drying, and when it is cut up into scantlings for use, besides rendering it though its strength is supposed to be slightly di. miles.

Steamer E. B. Eddy, Capt. Williamson, and minished thereby, which seems to be borne out by the fact that the loss of weight is greater in waterseasoned wood than when it has been merely air seasoned. If placed in water it is better that it should be completely submerged. as nothing is so injurious to timber as being exposed to alternate wet and dry. The generally received opinion is, that for ordinary purposes a fortnight's immersion in runnig water is sufficient, though much must depend on the size of the bulks so treated. T. de Lapparent, one of the Government inspectors of timber in France, recommends for timber used in shipbailding one year's immersion in river water, two years in fresh, or three in brackish water, constantly being changed, to be followed by two years of air-seasoning. The gradual processes of air and water seasoning are the only ones which can be safely applied to timber in large scantlings; still, artifical drying may often be successfully employed in the case of smaller scantlings, more especially in the preparation of timber for joinery, for which purpose it should be quite dry and free from any tendency to shrink.

Amongst such systems we may mention drying in overs or hot chambers, exposed to currents of air raging from 90° for hard woods and large sections, to 200° for soft woods in thin boards, the process being carried on until the wood has lost from one-fifth to one-third of its original weight, according to the purpose for which it is required to be used. Boiling and steaming wood for three or four hours are often resorted to, as the subsequent drying is thereby rendered very rapid, and the tendency to shrink and twist is reduced to a minimum, whilst the wood becomes so pliable that ribs and planks can be bent to any required curve, and, if confined until dry, will readily retain the form so given them. Smoke-drying may also be employed at times with advantage; but carbonising or charring the outer surfaces of the wood, though very effectual in preserving it from the destructive influence of alternate wet and dry, such as the ends of posts let into the ground are so much exposed to, must never be regarded as a substitute for seasoning: for though keeping out external moisture it effectually imprisons that which is in the porce of the wood, and so hastens internal decay. While on this subject it may be as well to observe that paint, tar, and all similar waterproof coatings are only preservatives so long as the timber is already seasoned and free from moisture, as then they keep it dry; but if not, they become the most certain agents of destruction. For imperfectly seasoned timber the best preservative against the weather is a rough-swan face, which forms a shield against both sun and rain, and at the same time offers no check to the evaporation of the moisture from the poers of the wood .- Timber.

How to Skeletonise Leaves.

First dissolve four ounces of common washing sods in a quart of boiling water, then add two ounces of slaked lime, and boil about fifteen minutes.. Allow this solution to cool; afterwards pour off all the clear liquid into a clean saucepan. When the solution is at a boiling point, place the leaves carefully into the pan and boil the whole for an hour. Boiling water ought to be added occasionally, but sufficient only to replace that lose by evaporation. The epidermis and parenchyma of some leaves will more readily separate than others. A good test is to try the leaves after they have been gently poiling for about an hour, and if the cellular matter does not easily rub off betwixt the finger and thumb beneath cold water, boil them again for a short time. When the matter is found to be sufficiently softened, rub them separately, but very gently, beneath cold water until the perfect skeleton is exposed. The skeletons are at first of a dirty white color; to make them of a pure white, and, therefore, more beautiful, all that is necessary is to bleach them in a week solution of chloride of lime .--Timber Trades Journal.

CHINA offers about as attractive a field for the work of professional explorers as any other country on the globe. It has recently been ascertained that the Chinese coal-sields occupy more proof against the attacks of worms, an area of four hundred thousand square

POWER TRANSMISSION.

One of the most deplorable circumstances connected with practical mechanics, says the St. Louis Miller, is the wanton carelessness in the adjustment of shafting, gearing, belts and all means of transmitting power. As has been repeatedly stated in these columns but a mere fraction of the heat unites represented in a ton of coal is utilized, by far the larger portion consumed in overcoming friction (some of which is more than uscless), supplying the deficiency caused by petty leaks and the like. These of thomselves appear to be and really are small matters of themselves, but taken in aggregate they amount to more, by a large majority, in the consumption of power than is represented by the force really utilized. The first practical idea to be impressed on an apprentice is the saving of patience, time, labor and profits by a neat adjustment of the minor parts of machinery, and more especially all knuckles, joints, cogs, belts and the like. If we take a new belt so cut and joined that it runs evenly over both pullies, we will find that, so far as these two wheels are concerned, all the friction to be overcome is by the adhension on the arc of the surface contract. Now if we unlace the belt and cut off a tapering, wedgeshaped piece from one end and draw together, we will find that the belt is of unequal lengths on each side, and, of course, it bears harder on one side of the pullies than the other, so that one side has all the work to do, and, in accordance with the law governing this motion, the belt is attempting to adapt itself to these applied unequal forces, a aide motion is introduced, begetting another, and the hardest kind of friction to come, viz., a sliding motion across the pulleys when in motion. This motion not only occurs on one pulley, but on both, and every inch of the belt, however long and wide, partakes of this motion, the friction of which in some cases amounts to nearly if not quite as much as that needed to propel the machine. As a con equence the boilers is put to extra work, the ongine labors fearfully in doing half its estimated work, and the entire machinery drags, the belt shows early evidences rapidly, and innocent parties are blamed, when, in reality, the fault lies with the carelessness of the one who sewed the belt.

Again, a system of belt tighteners and idlers are rapidly coming into use, that not only increase the work demanded of the machinery, but of themselves are fearful consumers of power by being improperly hung, so that they augment the evil intended to be overcome. A tightener or idler should be so adjusted that the point of contract, friction and motion is as perfect for the service required as the drum pulley; but very often it is thought that any appliance, however crude and ungainly, will do for a tightener, and that they are placed in position with no regard to the proper distance from the drum or pulley, and with still less reference to the difference in size of the two. There is a wrong as well as right way of doing this, but we see the former oftener than the latter.

PROTECTION OF FORESTA

The Forestry Commission, of New York, at a recent meeting in Albany, adopted some rules and regulations for the protection of the forests from destruction from fire. They are as follows :--

FIRST,-All persons having occasion to burn a fallow or start a fire in any old chopping, wind slash, bush or berry lot, swamp, "viale," or beaver meadow, for the purpose of clearing or improving, shall give five days' notice of such intentior to the nearest Fire Warden, Forester, or agent of the Forest Commission. He shall also give notice to any neighbors who may have fields or woodlands adjacent, and liable to injury, at least one day previous to the setting of such fires. Such fires will be permitted only when the wind is favorable, and competent persons must remain on quard until the fire is completely extinguished on the surface and in the "duff."

SECOND .- All hunters, fishermen, loggers, guides, tourists and others lighting fires, in or near the forest for cooking, warmth, insect smudges, or other purposes, must clear away all combustible material from within six i. at of the combustible material from within aix int of the Last year the Rathbun agency at Ottawa place where the fire is to be kindled, and must shipped 6,000,000 feet of lumber to Oswego.

thoroughly stamp out, drench, or otherwise extinguish any such fire upon leaving it either temporarily or permanently; and hunters using firearms with inflammable wadding are hereby cautioned against allowing fires to start from

THIRD.—Smokers are cautioned in regard to fires arising from any carelessness of theirs, and their attention is called to the penalty for negligence in causing fires. Parents and teachers are respectfully requested to instruct children to avoid lighting fires in the forests or exposed places.

FOURTH.—Peeling standing trees of their bark for covering camps or shanties is hereby prohibited. For such purposes the tree must be felled, and all the available bark removed therefrom before another tree is cut down. The trees thus cut down must be utilized for firewood, and such fallen timber as lies in the vicinity of the camp must also be used for fire wood before any green standing timber is cut for that pur-

THE COAL FIRLDS OF NEW SOUTH WALES.

The coal-beds of New South Wales are of enormous extent. The mineral has been traced for hundreds of miles along the coast, and has been worked at various levels from 450 teet below to 1,500 feet above the sea. The lower beds are geographically older than any that have been yet worked in Europe, and the quality of the coal which is taken from these inferior strata is therefore unsurpassed. Not only so, but in certain districts immense seams of this mineral are found in immediate juxtaposition with an abundance of iron ores, limestone and fireclay. Hence nature seems to have indicated New South Wales as the great manufacturing colony of the Australian group. Up to the present time, coal has been ascertained to exist over an area of something like 25,000 square miles of country; and it is almost everywhere within easy reach of water and railway communication. Now, when it is remembered that the coal-fields of Britain only cover onetwentieth part of the area of the country, or about 4,000 miles, and that nevertheless the output of this mineral in the mother country is upwards of 120,000,000 tons per annum, it would be difficult to overestimate the magnitude of the proportions to which the coal trade of New South Wales may be expected to grow here

IMPERIAL FEDERATION.

A circular has been recived at this office from the London, England, Chamber of Commerces giving the conditions prescribed in connection with a prize of £50 offered for the best essay on Imperial Federation and how it can be practically carried into effect. The essay should treat only with practical auggestions, may be written by any British subject, should not exceed in length twenty-five pages of foolscap and have a margin of two inches on the left and be written on only one side of the paper, must be in the hands of the secretary of the chamber, at 84-83 King William street, London, E. C., by August 31st, 1886, and must have a motto or a distinctive character attached, and a sealed envelope must be sent having a similar motto on the exterior, but having the writer's name inside. "Imperial Federation Essay" should be marked in the left hand corner of each envelope. The judges are Sir Alex. Galt, G. C. M. G., Prof. J. R. Seeley, M. A., and Mr. James Anthony Froude, and their decision will be final. All essays will become the property of the Chamber and the writer of the best one will receive a prize of £50.

THE South antagonizes the proposition to put lumber upon the free list because that sec tion is now the possessor of the only great forests remaining in the Union. So long as the West had its forests, argue the Southerners, Canadian lumber was kept out, and it is only fair that the South should be similarly treated now. Canadians who look to the future do not covet an increased consumption of our lumber by our neighbors .- Toronte World.



T. McAVITY & SONS.

ST. JOHN, N.B.



MONTREAL, QUE.

GET YOUR STATIONERY SUPPLIES

"REVIEW" STATIONERY STORE THE

MARKET BLOOK, GEORGE STREET.

Noted for BEST QUALITY GOODS at LOW PRICES!

PAPER, ENVELOPES, PENS, INK and PENCILS.

BOTH SMALL OR LARGE QUANTITIES.

MFA LIBERAL DISCOUNT will be allowed to Bankers, Lumbermen, Manufacturers, Glergymen, School Teachers, Township Officers and others buying their Stationery in large uantities, and also to each buyers. ASTErtimates given and contracts made for yearly supplies at lewer rates

Market Reports.

TORONTO.

From Our Uwn Correspondent.

APRIL 23 .- Sales from the yards continue fair and stocks have been kert up to a fair average. The only grades, or kinds, at all hard to obtain are 12 cuts and better, and bills cut to order. The latter will soon be easier to fill as most mills will be running as soon as May comes in, and the cut for 1886 will be larger than for some years past. The cut of hemlock also will exceed that of former years. This class of lumber is now coming into more general use, the prejudice existing in the past against this kind of lumber is fast dying out, and if the railway companies would only take a common sense view of the matter, and make a special tariff to to suit this class of lumber there could be a much larger amount placed on the local market, but as it stands now it is quite impossible to freight green cut hemlock by weight at 9 cents per hundred weight. There is large tracts of hemlock yet uncut in localities where the pine is all gone, which would find a ready market under an reduced rate of freight. It is to be hoped that the companies interested will shortly see their way clear to give their customers a reduction on this class of wood, of at least one-third, and they would still come out the gainers.

Vessels are rapidly moving away what dry lumber there was piled on docks here during the winter months. Messrs. Rathbun & Son, of Deseronto, held a large portion of the lumber on the docks, so that a nearly clean sweep will take place when they have shipped out. The firm of Donogh & Oliver have also a large stock on their docks. A large portion of their operations are confined to this market so that they generally fill up as fast as sales are made.

A number of timber vessels have been loading here this week, the constant repetition of their shrill whistles connected with the engines on board have made things seem quite lively. A large amount of elm and san timber will go to Quebec from here, and some fine line board timber, and had the P. J. Railway started running in time for this season's work, a much larger quantity would have found its way here.

Lath and shingles are now both in fair de mand; figures are not, however, as satisfactory as could be wished for. The best paying figures now going on this market is for 18 and 20 ft. bill stuffs, which rules \$1.50 per M shove 16 ft. lengths. Those prices will, doubtless, be modified when more mills start up.

	Mill cull be	ards at	id scal	atling omiscuous w	• •	\$10	∞
ŀ	Shipping C	ull boes	ds. pr	omiscuous v	idths	12	O _C
		stock	· · · · ·			,13	œ
	Seentling a	atot ba	Lup to	16 ft		•13	0
		***	**	18 ft		74	00
	44	46	4.	2) 11		15	00
	4.	**	**	22 ft		16	60
		44		24 12		17	Õ
	**	46	46	26 ft		12	œ
	44	**	**	28 /\$			
	44	44	4.	30 ft	•••••	20	00
	41	44	**	32 11			
	••	**	**	34 ft	29	50arc2	50
	••	**	••	36 ft		200	m
	••	**	**	33 It			Š
		•	•	40 to 44 ft		30	œ
	~	-leak	***	·····	***	A1205	×
	Cutting up	1				90	m
	and day	nine et		••••••	100	DE-CTN	8
	Distraction		ion	***********		204.30	ŏ
	These was		· Inem	oction		014.00	m
	THISA HITE	010, 2111		~ ·	•••••	006/10	~
		•.		в. х.		^^~	~
	14 incu noc	ing, a	LCENOU.		***** 20	OVER SO	×
	1		ougn.	•••••••••	••••••	OOM ARE	*
	13 ::						
	뀰 ::	·· u	uarora	ed	**** :2	·	~
	? ;;						
		11	udion	ત્વં		OUNTIE	ייט
	Franca 2	vecriut	dices.	ed	18	note 20	Ÿ
	Clayboard	nr, arr	MACA]		••••	12	50
	LAW YYY	spingi	14, P 3	(2	1962 E	80
	Sewn Lath	• • • • •	••			•	31
	Red Oak	• • • • • • •	*****	•••••		00:34	00
	White "					00430	nο
	Basewood,	70.18	2		18	00%20	œ
	Cherry, No	1 4 2			50	00400	00
	F'ack ash l	£2			20	ೲಚಿ	œ

AWATIO

From Our Own Correspondent.

APRIL 24.—The unprecedented warm weather has had the effect of opening up all the streams in this neighborhood, and now the driving of logs and timber is in full blast on nearly all the creeks and small rivers of the Upper Ottawa. In conversation with Mr. D. A. Martin, man-

ager for Messrs. Bronson & Weston, he said that in his thirty years experience he never saw a more favorable season for getting the winter's cut to the market. He had been on an extensive tour through the firm's works on the Upper Ottawa, and while the small streams are all open and the driving is in full progress, yet in the green bush there is fully three feet of snow and a very heavy coating of ice, so that a most bountiful supply of water is sasured. This state of things is shared in all the vast territory of the Upper Ottawa over which the lumbermen have been operating for the past winter, so that the probability is that more logs will be brought to the Chaudiere booms this year than over before, because all cut will be got safely down, and more left by low water, as is case in the average year past.

On the 26th the mills in this locality all open for the season, which is many days in advance of last year. The most ample preparations have been made for the event and nearly all the mills will run day and night to supply the large orders already booked. For the past few days barges have been loading up with their freights for the south and east, and the hum of the great lumber industry is once more a moving living factor in our midst.

The preliminary survey of the extension of the Canada Atlantic railway to the different lumber yards has been completed and now workmen are busily employed in the work of construction. When the read is completed it will be a great boon to the lumbermen, affording as it will the readiest means of shipment, and will greatly lessen the expense attendant on the handling of the lumber. It is expected that in about two months time the extension will be finished and in working order.

It is feared that our Government is altogether too apathetic in the matter of protecting our forests against the encroachments of the Michi gan men, who are quietly getting possession of ome of our best lands on the north shore of Lake Superior, as well as in the Nipissing district. They do not seem to realize that the pine growth of that vast region is its chief wealth, and should be protected by an increased export duty on logs. The argument that it is difficult to collect an expert duty on logs does not apply to this region at all, for it would be utterly impossible to evade the duty, owing to the means the Americans will employ transporting their logs to their Michigan mills. As I stated some months ago immense barges are to be employed for the purpose, and as the points at which logs can be shipped in this manner are limited in number the difficulty of appraising the export duty would be confin the minimum, so that but a few Do: .aion officials would be necessary to carry out the instructions of the Government satisfactorily There can be no question but if the Government took the precautions which they should take in the matter of protecting our forests for the benefit of our own people, there would be a revolution in things and instead of those logs being sawed by Michigan saws the limit holders would find it advantageous to erect mills on this side of the boundary.

MONTREAL.

From Our Own Correspondent,

April 26.—The lumber market since our last report, and especially during the past week, has been very quiet. It, in common with every other branch of trade, has felt the effects of our unprecedented spring flood. The water began to rise on Friday the 16th inst., and reached its greatest height on Monday; many of the streets in the lower part of the city being covered to a depth of from five to seven feet, some even eight feet. On Tuesday a shove took place, and after that the water quickly lowered.

The demand at the yards has been alight, but a good improvement is expected this week. Car load business, however, has been very fair. The total business done this month was much loss than that of March.

Prices remain unchanged.

The following are the quotations at the yards:-

Pine, 1st quality, W M	\$35 00/840 00
Pine 2nd	25 004130 00
Pine, shipping culls, W.M	10 00-212 00

Pine, mill cuils, * M	7.00/2	o M
Spruce, VM	10 00001	3 00
Hemlock, W.M.	9 00ut1	10 00
Ash, run of log culls out, WM	20 0000	25 00
Base, " " " " " " M	18 OUG 2	90 OS
Oak, W M	40 00¢48	00 00
Walnut WM	60 00 10	XO 00
Cherry, W M	80 00 10	00 OC
Butternut, & M.	35 00(44	0 00
Birch, WM	20 00@S	25 00
Hard Maple, W M	25 00 W	N 00
Lath, WM	1 6066	0 00
Shingles, 1st, WM	2 00/4	3 00
Shingles, 2nd, * M	5 20@	0 00
CORDWOOD,		

The following are the quotations at the

 yards:—
 \$ 0 0005 50

 Long Birch
 \$ 0 0005 50

 Long Blech
 \$ 0 000 50

 Tamarack
 \$ 0 000 00

OSWEGO, N.Y.

From Our Own Correspondent.

No change can be made in quotations. The demand has very materially slackened since the labor troubles commenced. We are not free from the evil of the operations of the K. of L. here, one of the M. W.'s appeared here last Sunday and organized a branch, initiated the longshoremen and sailors unions, put three to four hundred dollars in his pocket and left on Monday. This K. of L. business is supporting a few of the leaders in good style at the expense of the poor people from whom the money must come.

Three times	4.0	000016	
Three uppers			
Picking	32	00(325	00
Cutting up			
Fine Common	22	006125	. 00
Common	14	000018	00
Culls	ii	000014	00
Mill run lots	16	00/499	ñ
Ciding salastad 1 [n	ŝŏ	W/462	~~
Sidings, selected, 1 in	90	West.	~
	44	WBW	~~
Mill run, 1x10, 18 to 16 ft	10	OOGE	.00
Selocted	21	00@24	00
Shippers	14	00(410	60
Mill run, 11x10	17	00@20	00
Selected	21	000(30	00
Shippers			
Mill run, 1 & 1} in, strips	16	00(418	00
Selected	99	200	30
Culls	**	CONTRACT	**
Two and and down fact, and and	11	00(G15	24
1x6 selected for clapboards	ž,	(((@30	VV
Shingles, XXX, 18 in. pine	3	1000 2	50
XXX Cedar	2	75 @ 8	00
Lath 11, No 1	1	85@ 2	
No 2	1	0000 1	
Ash, 1st & 2nd 1 to 4 in	16		
Russwood 1st & 2nd 1 & 11 lach	18	00620	
Baswood, 1st & 2nd, 1 & 11 inch	Ř	00611	
	0	MA11	~

OHIOAGO.

BY THE CARGO.

The Northwestern Lumberman of April 24th says:—During the six days ending with Wednesday, April 21st, 51 cargoes of lumber arrived in port. This showing is sharply in contrast with that of last year for a corresponding week, when there were not half a dozen arrivals all told. During a like week in 1894 there were 98 arrivals.

The lumber that has come by lake thus far has mostly gone direct to the yards. This week one commission house sold two cargress of Manistee and White Lake green dimension, the ordinary length going at \$9.75, and a quantity of 3x12-16 in each cargo selling for \$11 and \$11.50. A quantity of selects brought \$26 a thousand, according to report. Mill culls have been sold on the market, to the extent of several jags, at \$7.50 to \$3. A load or two of codar shingles, considerably off grade, were sold, but at private terms. Medium stock has been sold to arrive at prices reported to be \$1 better than last year at the season's opening, \$14.50 being the price named on some sales.

As yet there have not been enough cargo transactions to make a market. The disposition of the yard dealers is to buy little or nothing for the present. May 1st is the time for taking inventories in the yards. It is now so near that date that few want to take on more stock until the inventories are complete. Besides, it is plain that the jobbers and manufacturers are wide apart in their views. They usually are in the spring, but this year there seems to be less than the usual margin between cargo and yard prices. While this is the case, the yard men now have a strong motive for holding off about making purchases on account of the dubious condition of labor affairs. And, as a matter of fact, there is less dry lumber to be thrown on the market than there was last year. Green lumber will not come forward freely until the mills are all in full blast. Mills that have not already begun operations will not, in most instances, be started before May 1st.

Lake freight rates are on a basis of \$1,25 a Atlantic's cargo was sold privately, to arrive,

thousand on dry lumber from Muskegon, \$1.37\(\frac{1}{2}\) from Ludington, and \$1.50 from Manistee.

AT THE YARDS.

Trade is but moderate. The urgency of demand that was a feature of March business has departed. The great yards that have to sell lumber or do worse are still sending out long trains, but the yards of smaller capacity are not now making any special effort to crowd sales. The present condition is peculiar. Stocks are so much broken, and values in the yard correspond so nearly with those at the mills that holders of medium size i stocks have no motive to urge business. When they undertake to scalp for assortments they have to pay about as much for lumbor as they can sell it for. The outlook is also a little uncertain-Merchants are not sure as to how serious labor disturbances are to be. They also begin to figure on crop prospects, and future prices for farm products. They are simply in a condition of "don't know," and see no loss in waiting until their minds are clearer. At the same time business is moving ...eug in a steady fashion, a large amount of lumber in the aggregate going into distribution. Dry stocks all over the country being broken in assortment, there is a demand, as a matter of necessity, for lumber held in this city. It is going in all directionsoften north, right into the heart of producing districts, to patch up assortments.

Receipts of lumber and shingles for the week ending April 22nd, as reported by the Lumberman's Exchange:—

~	2.1	CRIPTS.
		r. Skingles.
1888	28,814,000	2,847,000
1885	4,831,000	1,016,000
FROM JAN. 1, TO AP	ril 22, inclusi	VR.
}	RECE	
	Lumber.	Shingles.
1886	113,577,000	25,492,000
1885	55,613,000	16,093,000
Increase	58,064,000	9,509,000
STOCK ON HAN	ID APRIL, 1.	
	1886.	1885.
Lumber & timber	396,147,654	438,442,064
Shingles	296,665,080	228,422,800
Lath	43,065,153	35,073,175
Pickets	1,824,840	1,865,742
Cedar posts	279,971	167,674

EASTERN FREIGHT RATES.
PROM CHICAGO AND COMMON POINTS ON CAR LOAD LOTS

	OF HARD AND SOFT LUMBER.	
1	To New York	28c
	Boston	200
ı	Philadelphia	230
	Baltimore	926
ì	Washington.	÷.
l	Albany	234
3	Troy	鶎
	Buffalo and Pittsburgh	170
1	Shenectady	
ł	Wheeling	150
ų	Suspension Bridge	***
	Salamanca.	
1	Diest Dash	100
1	Black Rock	100
	Dunkirk	190
i	Erie	iéc
	Toronto	120

AUSTRALIA.

Messrs. Lord & Hughes' monthly circular, dated Melbourne, March 20th, says:—

Since our last, on 22nd ult., we have to advise the heaviest arrivals of every description of timber and building materials we have ever had in any one month, with the result of lower prices and greater difficulty of making sales, even at such lower prices; the fact is, the trade are so fully stocked that they purchase most reluctantly, their difficulty being enhanced by the inability of obtaining drayage and fire insurance. We can look for no improvement in prices until there is a great falling cff in imports.

The trade from the timber yards continues good, with no evidence of any falling off, Builders are all actively, employed, and with every prospect of continuing so for some time to come.

The Howard, from Saguensy, with cargo of Canadian lumber for this port, is stranded at Ringarooma Bay, N. E. coast of Tasmania.

RED DEALS.—Inports: 94,832 pieces from the Baltic, and 15,559 pieces from London. The arrivals have been Nanna, Jotun, and Aurora, from Geffe; Albert Ehrensvord, from Gothenburg; Ilos, from Arendal; Atlantic, from Skutskar (via Adelaide;) Lorelei, from Frederickstad; Maulesden, Bankfields, Eusemere, and Marsala, from London. The Albert Ehrensvord's cargo came to the order of one of the trade and has gone direct into stock. The Atlantic's cargo was sold privately, to arrive.

some time ago, prices not transpired. Sales of various shipments were made, prices ranging for thirds, 42d. to 5d.; fourths, 3d. to 41d per foot 9x3.

SPRUCE DEALS .-- Imports: 21,035 pieces The arrivals have been Ilos and India, from the Baltic; Sardomene, from New York; and ex steamers, from Sydney. The Ilos comes to the order of one of the trade, and has gone direct into stock. Sales have been, ex Wave King," General Butler and India, at 3d to 3gd per foot 9x3.

OREGON TIMBER -Imports: 2,314,816 feet super. The arrivals have been City of Brooklyn and Lakefield, from Burrard's Inlet; and Quickstep, from Tacoma. The City of Brook lyn and Quickstep's cargoes have been sold privately, prices withheld. The C. C. Funk's cargo was sold on 2nd inst., from £5 to £5 10s., average £5 3s 10d, per 1,000 feet super; and on the same date the General Butler's, at from £4 17s 6d to £5 12s 6d, average £5 4s 6d.

LUMBER, - Imports: Clear pine, 89,373 feet super. The arrivals have been, Sardomene and Lucy A. Nickels, from New York; and Albany, from Adelaide. Offerings by auction have been unusually heavy, and prices show a decline on last month's rates. We quote clear pine at £12 5e to £14 5e; shelving, £8 to £11 2e 6d; Canadian whits pine, £6 7s 6d to £3 2s 6d.

REDWOOD.—Imports: \$23,507 feet super.
The only arrival during the month has been the Alice Muir, from San Francisco, which is now in course of landing. The parcel ex C.C. Funk, and balance ex Grace Roberts, were sold at £9 to £8 7s 6d.

FLOORING AND WEATHERBOARDS.-Imports: 12,670,698 feet lineal. The arrivals have been exceedingly heavy, and a considerable decline has to be recorded. We quote—Red, 6x13, 9s 8d to 9s 9d; 6x2, 7s 9d to 8s; 6x2, 6s 6d to 6s 9d; 5x2, 4s 8d to 4s 9d; 4 out red weatherboards, 4s 9d; white, 6x12, 9s 3d to 9s 6d; 6x1, 7s 6d; 6x2, 6s 6d; 6x42, 4s 8d to 4s 10d; 4 out weatherboards, 4s 10d to 5s

KAUPI PINE.—Imports: 853,182 feet super. The arrivals have been-Ensign, Presto and Yolandi, from Kaipara. Sales by auction have been of shipments ex Noatun and Cabafeidh, prices showing a decline on last month's rates.

PITCH PINE.—Imports: Nil. A small parcel of 10 in. T. & G., ex Beaconsfield, was offered at auction on 9th inst., but bidding not being up to limits it was withdrawn.

CEDAR.-Imports: 131,900 foot super. This parcel arrived ex Sydney steamers. Spec interest was manifested at the sale on the 24 inst, of the first shipment of logs, soc l'ismond, from New Guines, which sold fairly well from 37s 6d to lie according to size of logs.

DOORS.-Imports: 1,749. The arrivals have been the Ederside, from San Francisco, via Sydney, and Sardomene, from New York. Both percels have been placed privately, at satisfactory prices,

LATES AND PICKETS.-Imports: Laths, 17, 983 bundles; pickets, 5,890 bundles. Notwithstanding the heavy arrivals, prices show an advance on last month's rates.

SLATES.—Imports: 688,170. The arrivals have been — America, from Liverpool; Wellington, from Launceston; Sardomene and Lucy A. Nickels, from New York. Imports excessive, and prices have declined fully 10 per cent, on last month's rates.

Plaster.-Imports: 2,260 barrels. This parcel arrived ex Sardomene and Lucy A. Nickels, and has been sold privately. We quote best brands 12s to 13s.

CEMENT.-Imports: 9,950 barrels. Favorite brands have been sold at up to 13e.

GALVANIZED IRON. - Imports: 537 tons. We report a sale privately of an invoice of Davis' 26 gauge 5-feet to 10-feet, at £16 10s. We quote Orb brand at £16 10s.

EXPLANATION—Red deals and spruce deals are sold at per foot of 9x3; T. and G. Flooring at per 100 feet running; Oregon timber, redwood, clear pine, shelving, ceiling, per 1,000 ft. super; Kauri pine and cedar logs at per 100 ft. super; laths, pickets and slates at per 1,000 pieces. Shorts are all lengths under 12 feet.

BEARDRY, CHAMPAION & Co.'s mill, at Muskegon lake expect this sprink to alice up a log. .

LONDON.

The Timber Trades Journal of April 17th says:—Mesara, Churchill & Sim's catalogue on Wednesday hardly drew such a big room as we expected. There was a fair gathering, but no crowding, and the stimulus to bidding, which the late opening of the Baltic ports engendered, had been palpably damped by the information conveyed in our Swedish correspondent's letter, published last week, that the ice was thawing rapidly, and the ports were likely to be open a month earlier than anticipated. This is not very cheering news to those who have been acquiring stock at the public sales in the expectation that the month would pass off without any fresh arrivals, and the announcement made that some of the first-open water steamers were already able to prosecute their voyage could hardly fail to operate unfavorably.

The cypress timber from Wilmington, ex Fidelio, with which Wednesday's sale was in troduced, went apparently low. This timber is said to be in good repute in America, where, we understand, they use it, got a wonderful bar-

gain.
The present lamentable cargo prices of pitch pine are partly due to the suicidal policy of Scandinavian shipowners in sending their vessels out seeking to the southern ports, when they must have known by past experience that the shippers would have them entirely at their mercy. Of course this was a great windfall to the shippers, who have no alternative but to look to the low freights to give them a chance of getting out at cost, and would, of course, take every advantage of these seekers being on the spot to regulate the rates.

The market here is completely glutted on all sides, and, unless the supply is curtailed some way or another, a greater fall in prices will assuredly take place.

When the pine and spruce parcels came under offer, buyers did not betray any more anxiety, and the reputed scarcity of some of the sizes evidently has not been felt in the market yet. As a matter of fact, everybody is full of everything, and we look in vain for the advance so confidently predicted at the nativity of the present year.

The most noticeable feature of the first day's sale was the absence of Petersburg goods, only a little lot of white representing that important wood-shipping place. The interest of the sale seemed to centre around the pine and spruce parcels. The goods ex Kalliope, of the latter description went very low for Quebec stuff; in fact all the 3rd appeared out of favor. The 9/10 ft. planks ex Betty falling at £5 15s. is a damper for those who are looking to see things improve. However the goods were not the best samples of the port they represented; and, though we do not wish to convoy any false impression to the actual state of values, we doubt not but that if really prime sorts came under offer the result would be less discoura

ging.
The fact of the market being so overdone with white spruce will remain an incurable evil as long as trade continues at its present dead level, and the big cargo of lower port stuff now discharging in the Surrey Commercial docks could hardly have come to a worse market, unless the great Mersey city had been selected.

The stereotyped phrase-things going very quiet-was applicable to Messrs Churchill & Sim's second day's doings, and it was apparent from the feebleness of prices that the demand had not yet shown signs of improving. The bidding was slow.

The Quebec lots were better appreciated, and the lot of second broads ex Rus 12 feets which opened at £11, but eventually fell at £18 (1884 cutting), were not dear. Spruce, like the day before, appeared to hang fire considerably. but, as a buyer remarked, how can it be otherwise when nobody wants any? £6 10s for 3rd Quebec Sxll is a not very satisfactory record, but, as we did not see the stuff, cannot promouce it either cheap or dear. Like the rest of the public sales lately, the seller had to hold the worst end of the stick. It is a satisfaction that, if prices are no better, they recede only to a very slight degree, which is an implication that with a genuine inquiry any upward movement will take a solid form.

· Stocks at the outports are heavy, and the

fow sales yet effe. ed to many places must leave a considerable quantity of unplaced stock yet to be dealt with. The leading brands are mostly placed, no doubt, and to secure their specifications the outports, and probably some the London trade as well, have paid the full figures; but, having suited themselves in this way, they are unlikely to do more till the position of the market is more assured.

LIVERPOOL.

The Timber Trades Journal of April 17th says:-Beyond the interest involved in the public sales held during the latter portion of last week, there has been very little animation shown in the market. In the retail trade con sumers are evidently still pursuing the same line of business they have followed for months past, and will only take what they want for pressing and immediate wants. In the wholesale branch a similar line of policy seems to be pursued, and therefore the sellers of goods to arrive on contract are having an extremely hard time of it at present, as buyers still continue to exercise the greatest amount of caution in entering into any engagements for the future. They are fortified in adopting this course by the continued depression in the freight market, which still rules extremely low from the St. Lawrence, New Brunswick and Nova Scotian ports, and also from pitch pine ports.

From St. John, N. B, we see that charters to Liverpool have been effected at about 43s 9d per standard for deals, and 18s and 19s per load for pine and birch timber, respectively, for London 40s, per standard, and the Bristol Channel 41s 3d to 42s 6d per std.

On Friday, thr 9th inct. Messrs. Price & Pierce offered by public auction the cargo of hewn pitch pine timber, just arrived per Cleveland, from Mobile. The inclemency of the weather, perhaps, militated against a la.go attendance, yet the local trade was fairly well represented, and we venture to think as much was obtained for the cargo as its quality and the present depressed condition of business could have led any one to anticipate.

The parcels per Maracas and Baron Anderson failed to elicit a bid, and consequently vece withdrawn.

Mesars. Farnworth & Jardine's sale of spruce deals on Thurday last was fairly attended by the local trade; but, from the apathy displayed by those present, it was evident that the company present was attracted more by curiosity than from any desire to buy. This was shown by the fact that lot after lot was passed without eliciting any bid whatever; the only sales made

St. John spruce deals, ex Nettie Murphy.

		rer ret. sta
		£ s. d.
21 ft. & up	3x11	750
9 "	2 <u>3</u> ×7	725
9 to 23 ft. & up	3x8	5 12 6
Ex Countess of Y	armouth :	•
9 ft. & up 7 in.	& up	C4 10 0 4 7 6

ALBANY.

Quotations at the yards are as follows:

The state of the s			
Pine, fourths	-50	00at 55	. 0
Pine, selects	42	00ut 42	nn
Pine, good box		00vt23	
Pine, common box	13	00vt15	
Pine, 10-in. plank, each	in	454100	
Pine, 10-in, plank, culls, each	m	25.0000	
Pine boards 10.in.	m	7/1.200	
Pine, 10-in. boards, culls	m	16.400	90
Pine, 10-in. boards, 16 ft., WM	~	00.494	~
Pine, 12 in. boards, 16ft.	73	100.47	
Pine, 12-in, boarde, 13ft	**	00,400	
Pine, 13 in. siding, select	<u></u>	00.413	~~
Pine, 11-in. siding, common	16	WALES	
Pine, 1-in. siding, select	13	009113	
Pine, inch siding, common	10	00/41	×
Sprice boards each	13	00 400	
Spruce, boards, each Spruce, plank, 11-in., each	20	00/400	10
Spruce, plank, 2-in., each	w	CHATCH	20
Curron wall string such		UNTU	30
Spruce, wall strips, each	w	12400	IZ
Hemlock, boards, each Hemlock, joist, 4x6, each	w	CONTROL	14
Hemlock, joist, 21xt, each	w	U.MIUU	2.5
Blambak mill steller Out on a	Ų,	00-400	114
Hemlock, wall strips, 2x4, each Hlack walnut, gook, & M	w	(CF-4CE)	111
Disch walnut, gook, wal	100	04130	00
Black waluut, ginch	50	004400	œ
Black walnut, 3 inch	w	(0.45)	(0)
Scaymore, 1-Inch	23	00-130	Ġ,
White ment of the bond elitation	21	O(m/t/23	(40
Scavmore, §-inch White wood, 1-inch and thicker White wood, §-inch	24	CONTR	(0)
tal mand 2) if	25	OCP (30)	(4)
Ash, good, \$ M	40	00-412	(6)
Ash, second quality, \(\forall \) \(\text{M} \) \(\text{Cherry, good, } \(\forall \) \(\text{M} \) \(\)	25	00-430	00
Cherry, 2000, 4 M.	60	OK4 V	00
Cherry, common, \$1		OFFICE	00
Oak, good, WM	40	00-113	00
Our, second quality, \$ M	20	00/125	00
Bastwood, & M.	25	DO-430	∞,
Hickory, ♥ M	40	00 4 40	8

	ı	=	=
Maple, Canada, & M	28	00:830	06
omikica, minied, bille, 48 24	n	000 At 0	
2nd quality	Ó	000m 5	00
	4	3000 4	50
		0000 8	00
codar, mixed	0	000	20
COURT. AAA	Ō	0000	
nemiork	•	2500 9	
	Ō	0000 9	
Lath, spruce,	0	000 2	

BUFFALO.

We quote cargo lots:-

Three uppers

	Continon)
		•
	TONAWANDA.	
ı	CARGO LOTS - MICHIGAN INCREMENT	

WOOD-WORKING PATENTS.

The following list of patents relating to the wood-working interests, granted by the United States Patent Office, April 18th, 1886, is specially reported by Franklyn H. Hough, solicitor of American and Foreign patents, 925 F. Street, N. W., Washington, D. C.

339 864-Log turner- W. W. Coyle, Springfield, Ohio.

339,872-Plane, bench-J. P. Gage, Vine land, N. J.

339,877-Planing machine-W. H. Gray, Brooklyn, N. Y.

339,728-Saw, band-E. C. Atkins, Indianpolis, Ind. 339,797-Saw mill, band-J. W. Maxwell,

Louisville, Ky. 340,016-Saw swago-A. Stevens, Wausau, Wis.

340,051-Saw tooth-A. Krieger, Columbus, Ohio.

339,808—Shingle machines, food mechanism for-W. L. Purves, Waddington, N. Y.

PATENTS ISSUED APRIL 20. 340,207 - Lathe - A. Gordon, Hamilton, Ohio.

340,335 — Lathes, work supporter for — E. Zimmermann, New York, N. Y.

340,312-Log skidding and loading machine H. N. Hewlett, Oscoda, Mich. 340,444-Resawing machine-I. R. Joelin.

New York, N. Y. 340,491-Saw mill dog-N. J. Cushman,

North Paris, Mc.

340,097—Sawing machine, scroll—E. Collins, New York, N. Y.

New Zealand Fungus.

A curious trade has sprung up of late years in a poculiar kind of fungus that grows on the trees in the North Island of New Zealand, and which is exported exclusively to China. The uses to which it is applied do not seem to be well known. In 1837 the British authorities at Hong Kong said it was "much prized by the Chinese community as a medicine administered in the shape of a decection to purify the blood, and was also used on fast days with a mixture of vermicelli and bean-cured instead of animal food." Subsequent information shows that it is used in soups as ordinary food, and it is also used as a dye. The exports during the past ten years have grown from £1927 to £18,939, but the increase has not been uniform. The gathering of the fungus is probably one of the vagabond industries; if so the irregularity is easily accounted for. The exports in 4884 were 6387 cwt., valued at £11.079.

Wood Products in Chemistry.

I appears from the experiment of M. Senfi, that the yield of crude pyroligneous acid, tar, charcoal, and gas is almost the same with the most different woods. But the richness of the acid waters in acetic acid, and consequently the yield of dehydrated acid, vary greatly. In this respect the wood of conferous trees is the least valuable. The wood of the trunk furnishes more acid than that of the branches. The wood yields more acid than the bark, and sound wood more than dead wood. Rapid calculation yields more gas at the expense of the condensed products and of the charcoal; it yields also the weakest acid waters, and the charcoal is more hygroscopic than that furnished by a gradual action,-Timber.

THE HENDERSON LUMBER CO. Limited.

DAVID II. HENDERDOR, President; NORMAN HENDERSON, Pice-President; CRAS. H. WALTERS, Sec-Troce. Dealers in, and manufacturers of, Dimension and Bridge Timber, Sawn Lumber, Clapboards, Shingles and Lath. Packing Cases and Boxes a Specialty.

OFFICE, MILLS AND YARDS: 342 to 396 William Street, MONTREAL, and at ROXTON FALLS, . Q

ACCOUNT BOOKS MANUFACTURED

BOOK-BIND

Review Printing and Publishing Co., Limited

MARKET BLOCK, PETERBOROUGH.

The Ontario Canoe Co, Limited.

PETERBOROUGH, ONTARÍO,

Manufacturers of all kinds of PLEASURE, FISHING and HUNTING



Patent Oedar Rib Cances, Patent Longitudinal Rib Canoes, Bass wood Canoes, Folding Canoes Paddles, Oars, Tents, etc., etc

dal, London Fisheries Exhibition, 1883.

J. Z. ROGERS,

President and Managing Director. Send 3 Cent Stamp for Illustrated Catalogs. Canoes for Lumbermen, designed to carry any amount of goods and chattels and strongly built, made to order on short notice.

GIBSC

MANUFACTURER OF

KNIGHT'S PATENT "EXCELLSIOR"

M WILL DOGS

The Sawyer's Favorite

For Holding Logs upon a Saw Mill Carriage while being Sawn into Lumber.

These Mildogs I guarantee to give satisfaction in every case. They will hold a frozen log as well as a soft one, for cutting Scantling, Square Timber, &c. These Dogs cannot be excelled, I sell them all on their own merits, give ten or filteen days trial, and then, if not satisfactory, return them to my order, as I have no agents on the road this year, I will sell them at a reduced

price. Send for Circular and price list.

Manufactured by HUGH GIBSON, CHATHAM. EXCELSIOR DOG.

RENEW YOUR SUBSCRIPTION TO

THE CANADA LUMBER



DIXON & CO

Patent Lap-Joint Star Rivet

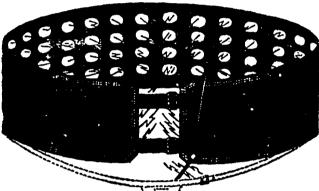
70 KING ST. EAST, TORONTO.

To Mill Owners, Manufacturers & others requiring Leather Belting

Do not buy any Belting unless with DIXON'S PATENT LAP JOINT. It will last longer and do more service than any other. Please note the address, 70 KING ST. EAST, and send for Circulars and Latest Discounts.

Norman's Electro-Curative Belt!

4 QUEEN ST., EAST, TORONTO.



SPINE BANDS. SHOULDER BANDS.

This Belt is the last improvement and the best yet developed Ours tive Appliance in the world for

INDIGESTION.

NERVOUS DEBILITY. RHEUMATISM.

and all disease of men, and is a grand remedy for Female Com plaints also. Cir oular and con sultation free.

A. NORMAN, Medical Electrician

4 QUEN STREET EAST, TORONTO.

N. B.-Mr. Norman has had long experience in the Treatment of Diseases by Electricity, and will give his personal attention to every case, by letter or examination

Forewarned

LUNG INVIGORATORS

KNEE CAPS.

as shown in pimples, blotches, bolls, or no fear of Dyspepsia, Rheumatism, Neu-discolorations of the skin; or by a feeling raigis, Salt Rheum, Tetter, Ecrema, of languor, induced, perhaps, by inactivity of the stomach, liver, and kidneys, you should take Ayer's Sarsaparilla. It will renew and invigorate your blood, and cause the vital organs to properly perform their functions. If you suffer from

Rheumatism,

or Neuralgia, a few bottles of Ayer's Sarsaparilla will relieve and cure you. Alice Kendall, 218 Tremont st., Boston, Mass., writes: "I have been troubled with Neuralgia, pain in the side, and weakness, and have found greater relief from Ayer's Sarsaparilla than from any other remedy." J. C. Tolman, 336 Merrimack st., Lowell, Mass., writes: "In no other remedy have I ever found such a happy relief from Rheumstism as in

Ayer's Sar sapari

blood, and imparts vitality and strength. get Ayer's Sarssparille, the most thorough Being highly concentrated, it is the most and effective blood puriser. The best is economical blood purifier.

Forearmed

with Ayer's Sarsaparilla, there need be Catarrh, Liver troubles, or any of the diseases arising from Scrofulous taints in the blood. Geo. Garwood, Big Springs, Ohio, writes: "Ayer's Sarasparilla has been used in my family for a number of years. I was a constant sufferer from

Dyspepsia,

but Ayer's Sarsaparilis effected a permanent cure. Seven years ago my wife was troubled with Goitre: iwo bottles of Ayer's Sarsaparilla cured her, and she has never had any return of the disease. I regard this preparation as the best medicine in use for the blood." B. Barnard Wair, 75 Adams st., Lynn, Mass., writes: "For many years I suffered terribly from Indigestion, Dyspepala, and Scrofula. Almost hopeless, I took Ayer's Sar-

saparilla." It instils new life into the and am a well man to-day." Be sure and

Preserved by Dr. J. C. Ayer & Co., Lowell, Mass., U. S. A.

For sale by all druggists. Price \$1; six bettles for \$5.

RENEW YOUR

SUBSCRIPTION

FOR THE

Canada Limberman

IT WILL PAY YOU, BECAUSE:

- 1. It is the only newspaper published in the Dominion of Canada devoted to the lumber and timber industries.
- 2. It is devoted to the development and utilization of our forest wealth.
- 3. It furnishes complete and reliable quotations of prices of lumber in all the leading markets.
- 4. Its columns are filled with interesting reading matter, valuable alike to the land owner, manufacturer or dealer.
- 5. It costs only \$2.00 per year to have it sent, post-paid, to any address in Canada, and no land owner, lumber dealer, manufacturer or individual in any way connected with timber industries, can afford to do without it.

TO ADVERTISERS.

It has a circulation among saw mill owners, manufacturers, lumber and timber dealers and all classes connected with the timber business.

Examine the field, count the cost, and you will at 3 _e decide that the CANADA LUMBERMAN is the

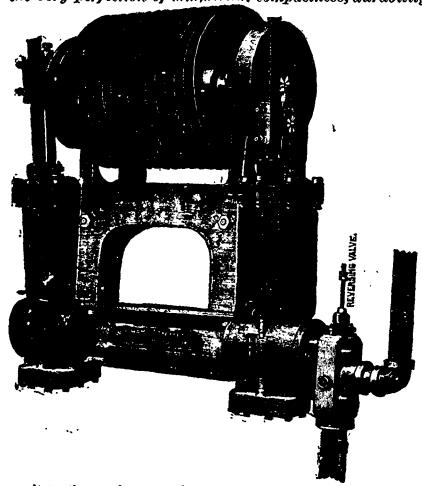
CHEAPEST, BEST, MOST RELIABLE and ONLY TRUE MEDIUM

for placing your goods or wares before the saw-mill men and lumber and timber dealers of the Dominion.

CUNNINGHAM'S PATENT OSCILLATING TWIN ENGINE

FOR STEAM FEED IN CIRCULAR MILLS WITH RACK OR ROPE.

This Engine has practically but two moving parts, aside from cranks and shafts. The whole array of eccentrics, valves, valve rods, connecting rods, cross heads, slides, levers, rock shafts, bell cranks, etc., is done away with, and the very perfection of simplicity. compactness, durability and cheapness attained.



The above engraving illustrates the Twin Engine, 10x16, for Rope Feed, for Saw Mill Carriages. The spool is 27 in. diameter, 30 in. face, is grooved 2 in. pitch for 11 in. rope. The shaft is steel, 4½ in. diameter, with disk cranks. No connecting rods, eccentries or valve rods to get loose and out of order. The ports are in the trunions, and worked by an oscilliation of the cylinders, and are held in their place in the downward motion by a steam cushion below. The sawyer's valve is a perfect balance, and by moving this valve the engine can be reversed, stopped or started almost instantaneously if necessary, as the sawyer has perfect control of it by his lever either to go fast or slow. Should the sawyer let go of his lever either by mistake or any other cause. it is balanced so that the valve will come to the centre and cut the steam off both cylinders and stop the feed. When standing, the lever is locked or fastended, so that is is impossible for it to start off itself. The engine stands upright below the carriage. and bolted to two upright beams, placed on the mill for the purpose. When a rack is preferred in place of the rope, we put on a steel wheel 30 in. in diameter, and the engine placed high enough to work into the rack on carriage bar, or if the beams come in the way, an idler wheel can be used between engine and rack segs; or, the engine can be placed at a distance and have a shaft

rom it to the carriage; or it can be placed in the engine room, where it is under the control of the engineer for oiling, thence by shaft and pinion to carriage rack bars. These engines are well adapted for cutting long logs, or where the logs are mixed, the advantage of this feed will be apparent to mill men. When the carriages are used in two or more sections, the couplin and uncoup ling of each section is quick and simple.

There were two of these feeds working this summer and giving the best of satisfaction, one with rope feed at James Playfar & Co's Mill, Sturgeon Bay, near Waubaushene, and one at the new mill furnished by us to Francis Carswell & Co., at Calabogie Lake, on the Kingston and Pembroke R. R. This mill is working with the Rack and Pinion feed, and drops from fifteen to seventeen stock boards per minute. We have also sent one to the Rathbun Company, Deseronto, to put in to feed their heavy Circular Mills. They will also commend themselves for various other cases, especially for running Elevators, hoisting Engines, and wherever a simple and easily reversible motion is required.

We would also call attention to our Improved Band Saw-Mill for cutting logs

We guarantee this to be the best Mill of its kind got up, and would ask any one wanting a good Band Saw-Mill to communicate with us. We would also call the attention of Mill Men to our new IRON GANGS, CIRCULAR MILLS and MILL MACHINERY. For further information, prices, &c., address the Manufacturers,

The Wm. Hamilton Manufacturing Go'y, Limited

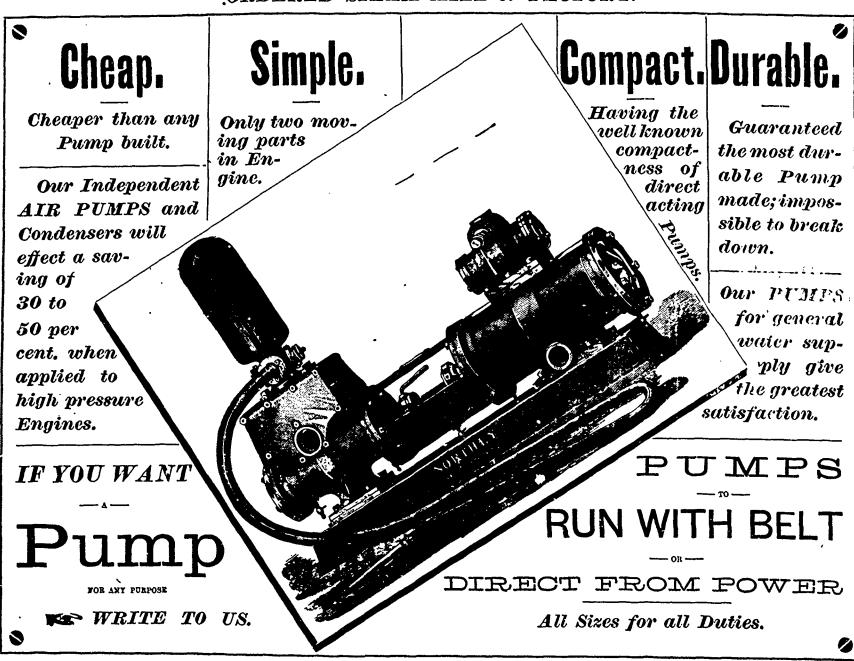
PETERBOROUGH

NORTHEY & CO'S STEAM PUMPS, TORONTO, ONT.

Pumps for Fire Protection a Specialty.

SAVE INSURANCE.

Our Combined Boiler Feed and Fire Pumps are a NECESSITY IN EVERY WELL ORDERED STEAM MILL or FACTORY.



Our make of Pump is specially adapted to Mills in out of the way places, as they can be absolutely relied on, and occasion no vexatious stoppages for repairs.

WE INVITE CORRESPONDENCE ON ANY POINT CONNECTED WITH PUMPS.

SEND FOR CIRCULAR AND STATE YOUR REQUIREMENTS.

NORTHEY & COMPANY,

Corner FRONT & PARLIAMENT STS.

TORONTO, ONT



THE TANITE COMPANY

STROUDSBURG,

MONROE COUNTY, PENNSYLVANIA, U.S.

MANUFACTURERS OF

SOLID EMERY WHEELS

AND SHARPENING MACHINERY.

The products of the Manufacture of the Tanite Company have, for almost 18 years enjoyed a great reputation, and have been recognized for a long while, in all the countries of the world as a type of excellence in this class of work. In order to increase in Canada their already widely extended use, the Co'y has recently added to the liberality of its terms and conditions, and has chosen the following Houses, so extensively known, to be its Agents:

BEAUDET & CHINIC F. H. ANDREWS & SON \ QUEBEC. | G. A. PONTBRIANT . . SOREL. |

A SOREL.

MONTREAL SAW WORKS.

MACHINERY SUPPLY ASSOCIATION MONTREAL
R. H. BUCHANAN & CO.

A. R. WILLIAMS,

TORONTO.

Dominion Saw Works!

JAMES ROBERTSON & CO.

253 to 267 KING ST. EAST, TORONTO, ONT.



EVERY SAW FULLY WARRANTED.

Prices on Application.

MANUFACTURERS OF SAWS

Circular, Shingle, Gang, Cross Cut, Concave, Mulay, Drag, Grooving.

THURBERS ROYAL Anti-Friction Babbit Metal

IMPORTERS AND DRALERS IN

Band Saws, Emery Wheels, Files,
Saw Swages, Rubber Belting, Saw Sets,
Saw Gummers, Leather Belting, Iron Pipe, &c.