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PUBLISHED SEMI-MONTHLY.

The only Newspaper devoted to the Lumber and Timber Industries published in Canada.

VOL. 1.

PETERBOROUGH, ONT., DECEMBER 15, 1881.

NO. 28.

THE timber and woodsmanufactures exported from the United States to Australia is officially given in the consular reports as follows:-

 Other
 54,831

 Door, sash and shutters
 88,409

 Shooks and staves
 2,979
 Total

ARKANSAS lumber is becoming a very promi nent factor in the commerce of some of the western cities. ' The yellow pine attains great size there, and forests of it cover about 1-10th of the State. Among other valuable woods which grow plentifully and to large proportions are several varieties of oak, the black walnut, cherry, bois-d'arc, holly and maple. Besides these the cedar, beech, poplar, cypress, hickory and ash are common. Seventy different kinds of timber grow in this state.

A HEAVY deal in hemlock bark has been made by Hoyt Bros., who are now engaged in building the largest tannery in the world on Babb's Creek, near Wellsboro, Pennsylvania. The lo cation chosen is right in the heart of an almost unbroken wilderness. The equipments of the establishment will be complete, including six hark mills, which will grind a hundred cords of back a day, and a large sawimill. The firm, to carry on this immense establishment, have made contracts for all thehemlock bark on about forty thousand acres of land.

THE white birch manufacture is attracting considerable attention in Maine. The stock is used largely for the making of spools. New mills for sawing birch are to be erected at Salem. and Scott & Hopkins, at Madrid, are using a large amount of birch in their mills, besides poplar, their stock being worked up into spools and salt boxes. This industry enables the farmers in the vicinity to make sale of timber that would otherwise have no particular value. B. F. Bachelor, of Fayette, Kennebec county, is sawing large amounts of birch, and the use of both birch and poplar in Oxford county, and other sections of the state, is becoming an im portant source of wealth.

THE American Ship says that in the case of sighteen timber and lumber laden vessels reported at Lloyd's as lost between the nights of October 12 and 17, not a life was lost. Some rero water-logged and abandoned at sea, but the crews were taken off or otherwise saved. Of hose abandened some were afterwards picked p near land and brought to port. A water-logged tow and brings her into port.

AN IMPORTANT INVENTION.

On Saturday last, at the Alexandra Palace, London, the first public trial was made of "Wilson's Combined Low-water and Steam Safety Alarm." The operations of the apparatus are two-fold. Firstly, to give warning of the fall of water below the water line in a boiler. and, secondly, to indicate any generation of steam pressure in excess of the registered pres-The alarm is constructed with an inner and outer cylinder, containing a float and valve spindle, safety valve, loading spiral spring to safety valve, and an alarm whistle. Should the water in the boiler be allowed to recede below the determined minimum low water line, the float immediately descends with it, causing a vacuum through which the steam passes into the alarm whistle, and so giving notice of the condition of the water in the boiler. So sensitive is the regulation of the apparatus that if as small a quantity as one quart of water is injected into the boiler the alarm at once stops and safety is restored. Again, on the other hand, should there be the slightest (half 1b.) generation of steam in excess of the Government regis ter, the pressure immediately overcomes the loading spiral spring and allows the steam to escape through the outer cylinder into the alarm whistle, thereby giving notice that too much heat is being used and fuel wasted. Simply opening the furnace door, or setting the engine in motion, is sufficient to overcome this neglect The experiments were carried out by the inventor, and in every particular were most successful The apparatus can be regulated and fixed to any size of boiler, marine, locomotive, or otherwise-at a very low cost. It is impossible for the valve to be in any way tampered with, as the outer casting is melted down, pegged, and scaled.

TERRA COTTA LUMBER.

One of the most important of recent practical inventions is that of the manufacture of lumber from fire clay, patented by Mr. C. C. Gilman of Eldora, Iowa

The process is fully described by his letters patent, from which we extract the following :-The composition consists of kaolin clay, free from grit, one part : resinous sawdust, from one to three parts, as perosity may be required; water sufficient to thoroughly incorporate the above, by machinery, into a plastic mass.

Removed from the grinding tubs, where it by plungers driven by steam through iron or of Austria has also a counterpart in that of this steel cylinders to express the superfluous mois country. Sweden and Norway have exhausted essel, laden with timber or lumber, though it ture therefrom, and issues forth in the shape of their oak as we have almost our walnut, and, it not be possible to form a company for the unpay become unmanageable in severe weather, long blocks or logs, of length, form, and size according to the Journal, their pine is going the annot sink, and the people aboard can take to best fitted for handling, usually eight to twelve way of ours. The following are the figures to rigging, and thus have some change for inches in thickness, and four to six feet in length. given by the paper mentioned above. Sweden

vapors are driven out by a slow, steadily in-shores of the Baltic, in Finland and in the creasing fire, the temperature is rapidly increasmaterial, being free from grit and tough in texture, can be cut, sawed, bored, planed, and carved with edged tools, and before or after such treatment can, after slipping and glazing, be submitted to a second firing, with fine results in ornamentation obtained.

Kaolin is the upper stratum of fire or feldspathic clay beds, and owing to the absence of sand or free silica is unsuited to common pottery uses, as its warpage in drying and firing unfits it for moulding purposes.

Mr. Gilman's invention overcomes this trouble, inasmuch, as the material is reduced to form with edged tools subsequent to firing

New York's greatest present want is a fireproofing, cheap and undoubted in its capacity for every emergency. Her stately ten-storied buildings can in a conflagration receive but little aid from the fire department, especially when Croton is as scarce as it is now.

Terra cotta lumber is indestructible by fire, gases or acids; it is a poor conductor of heat, sound, and electricity; and possesses molecular attraction to an extent which allows of plastering without first lathing.

I s weight is one-half less than common building brick, and it is creeted with nails instead of cement and mortar, virtually rendering fireproofing a work of carpentry instead of masonry as heretofore. Mr. C. C. Gilman's present address is room 71, No. 71, Broadway, New York. -Scientific American.

THE TIMBER SUPPLY OF EUROPE.

From an approximate summary of the timber production and trade of Europe, as given by the Journal of the Agricultural Society of France, may be drawn some lessons, which may be of berrift in showing the dangers threatening our timber supply, and the advantages of an intelligent public policy of preservation. A man in business cannot be expected to cacrifice himself for the benefit of posterity, but the government should see to it that such great resources should has been ground, the spongy product is forced not be sacrificed in one generation. The policy secue. Often the vessel and cargo are saved by When sufficiently dry to render handling and, and Norway, which still do a large export trade lumbermen and so to attain the desirable object a passing stoamer, that takes the distressed ship these logs are moved into kilns or clamps cale in deals, are now compelled to buy their oak in herein indicated? We commend the matter to culated for the purpose. After the steam and Poland; and in Russia the forests along the the attention of all who are interested.

southern provinces, are so rapidly thinning that ed to nearly a white heat, which not only the forest acreage of the empire is now only one consumes the sawdust, but brings the clay itself, in ten. There are about 34,000,000 acres of into the first stages of vitrifaction. On cooling, forest in Germany (of which 20,000,000 are in the logs are removed to the mill and sawed into Prussia), estimated to be worth £500,000,000, planks, boards, and dimension stuff, as lumber, and bringing in an income of £10,000,000 per from wood is manufactured, and subsequently annum. The state forests are taken great care fashioned in the workshop into such forms and of in all parts of Germany, in Prussia alone articles as are demanded by purchasers. This £100,000 being spent every year in replanting; yet the imports of timber exceed the exports by over 2,000,000 tons. The oak and the beech are the kind of trees which do best in Denmark, but the timber trade of the country is very small. Austria and Hungary have upwards of 43,000,000 acres of forest; but in Austria proper the state does not possess more than seven per cent, of the wooded area, as owing to the wasteful policy of the Ministry of Finance from 1855 to 1872 more than 5,000,000 acres were sold for sums so far below their value that there was a popular saying in Vienna, "If you want to be come rich, buy state forests." The speculation came to an end in 1873, but Austria is now obliged to buy most of her timber in Bosnia and Montenegro. Servis and Roumania hav mo very fine forests; but Italy, though her werest area extends over nearly 14,000,000 acres, does not do much in the way of a timber trade, as the roads leading to the forests are so bad that it is almost impossible to move the timber when cut. Much the same is the case with Spain, which has 8,500,000 acres of forest; while Portugal, which has only 1,000,000 acres, finds a good market for her timber. Sweden and Norway export about £32,000,000 worth of timber every year, and at this rate their fine forests will seen be exhausted .- Northwestern Lumberman.

New Tae of Baffalo Skins.

An inventor proposes to make machine gear whools of raw buffalo hides by cementing and pressing together as many layers as are required for the breadth of the wheel. The blanks thus prepared are cut to form the teeth in the usual manner with suitable tools. The advantages claimed are smooth and noiseless action at high speeds and greater durability without lubrication.

River Improvement.

The Belleville Intelligencer wave that at the forthcoming session of the Legislature application will be made on behalf of the lumbermen, we presume-for power to erect dams on the streams in the townships of Tudor, Madec and Marmora, for the purpose of storing water to facilitate the driving of saw logs, etc. Would provement of the river, with the object of furnishing water power continuously to manufactories here, to enter into this scheme with the

SHARP PRACTICE.

As we published the sensational account of the asserted timber discoveries by Mr. W. Mercer, C.E., we now give the other side of the story. The Northwestern Lumberman Bays:

It is not uncommon for scheming to pay. In fact it often pays better than business that is conducted openly, as is proved by every day transactions, and it is not unlikely that a piece of very adroit business that has for some time been going on in pine land circles has rewarded the men who were conducting it very hand-

About a month ago, as the readers of the Lumberman will remember, we published the statement of Mr. William Mercer, a civil engineer, of Bay City, Mich., who had recently returned from the Spanish River district, Ontwie, to the effect that he had discovered in that region a genuino lumberman's paradise. There were seas of pine, stretching beyond any government surveys even, and, according to the tories of the Indians, hundreds of miles beyond

While we hoped that the story might prove true, we could not swallow it without a grain of allowance. Experience has educated us up to that point that we look with suspicion upon any report of an immense timber find. To ascertain about the timber supply of the country it is not necessary to go up in a balloon, or down into the bowels of the earth. It is easily enough getten at by a man sufficiently interested to be at the pains. There are a great many men in this country with plenty of money in their pockets, and who understand all the conditions governing timber as regarding its value for lumber, who have hunted timbered land. particularly pine lands, pretty thoroughly. We have so much faith in their knowledge of the situation that when we hear a report of a prodigious discovery of pine, right at home, we suspect at once that there is a Munchausen element in it, a suspicion that, in these late days, has nover proved unfounded.

Mr. Mercer gained the ears of some gullible newspaper men of this city, and a statement of the big find was given to the world. This, on the face of it, had a bad look. It is natural enough for a man who has made a great discovery to let it be known through the press, providing it would not be more profitable to keep it to himself; and the influence of the press is often the first thing desired by a person who has a scheme on hand. It helps him won derfully, if he succeeds in gaining it.

Mr. Mercer is an old-time lumberman, and has a host of friends among the craft in Michigan. Those friends well know that the pine of their own state is rapidly disappearing. They were born and bred to the business of lumbering and know no other. It seems a trifle out of the natural run of things that the Canadian ex plorer, instead of informing his friends of his valuable discovery. Should come to Chicago and disclose it to newspaper men, when he knew all the time that they would so right off and tell of it. We wondered at the time that he did not whirper it in the cars of his friends who could profit by it. The region was the richest in pine the gentleman had over seen, although he was conversant with the trees of the cork variety that once grow on Cass river, and yielded a fabulous per cent. of uppers. This pine could be bought cheap; no doubt of that. It belonged to the Ontario Government, the Covernment did not even know of its existence, and an in dividual or government that is not willing to sell cheap what it does not know it has, is a poor financier. This is one of the phases of the great pine find that begat suspicion.

It was somewhat strange that the Programmal Government had no knowledge of such Crossuslike possessions, but we exceed it in the second that so many of its young men migrate to the United States that there are not enough active mon-such as can stand a trange through the forests-left behind to find out what there real | that was on the hands of the Alpena lumbermen ly is in their country, covering the vast territory | at any price | that it dows.

very narrow, upon which the stakes of the surveyors had not been driven. The unsurveyed country is not more extensive than that indicated above, and the chances are against such dimensions. Then, again, somowhere away up in the unknown region, there is a settlement, and even a saw mill. The Indians had probably lied to Mr. Mercer.

Unless a leak is stopped it usually increases This one grew larger and larger all the time. Every day, almost, brought ovidence that Mr Mercer, either knowingly or unknowingly, in giving a report of his discovery to the press had favored the interests of parties who had land to sell in the Laurentian region. If he did not know it, it is likely to prove a happy stroke of luck to the men who owned the land.

It has transpired that a good while before Mr. Mercer discovered the bourne from whence no lumberman would over wish to return, on account of the fine pine everywhere abundant, it was discovered by somobody olso. Mr. George N. Flotcher and other parties, of Alpena, Mich., discovered it a year ago, and doubtless other parties discovered it several years before they did. At any rate somebody owned a half dozen or so limits up there, and wanted to sell them. The Alpena parties purchased them at a cost of something like \$21,000. We do not assert that these limits were on the ground talked about by Mr. Mercer: but if there should happen to be right adjoining those limits, other territory rich in the material of which lumber is made, those same limits might be more valuable than they would otherwise be. That is natural enough A mine right by the Comstock lode would sell for more than though it were located in the Alleghanies. That is a business principle.

It furthermore seems that the Alpena gentle men, for some reason, got sick of their bargain. In common parlance they had got "stuck." start with, as it will be seen further on, they paid a pretty good price for their limits. do not know what they intended to do with the timber upon their purchase, but as they own large mills at Alpena, it is supposable that they expected to float the logs home, and saw them there. They ought to have known it before, but come to think of it, they would be required to pay seventy five cents per thousand, crown land dues, and this assessment, it is plain, would be an addition worth mentioning, to the original outlay.

A craze for buying Canadian forests must have struck that portion of Michigan, for other Alpena lumbermen got a scent in the same direction. One gentleman contracted for some limits over there that were guaranteed to produce 150,000,000 feet, running 15 per cent. to uppers. It was denominated a fine chance to do a lumber business, but on looking the ground over he found 10,000,000 or 12,000,000, instead of 150,000,000, and a country full of ranges of rocky, steep hills and lakes. As it would cost more to get the timber out than it was worth, he sensibly declared the contract off

It might have been owing to some such reason and his neighboring lumbermen found out that they had bought a cat in a sack. Mr. Mercer asserts that the country is well adapted to lumbering, and the Spanish river a good driving stream, but in this respect maybe the Indians had lied to him again. However, it was for some reason that the owners of the limits desired to sell them, for they approached Mr. A. N. pine land operator, and, of course, refuse l to would investigate, so last summer he made a trip to the unknown region, and discovered it ngam. He ascertained that the Spanish inver region is a poor one to carry on logging operations in, as the country rises to high elevations as you go back, giving to the streams, of course, numerous heavy falls. This examination led Mr. Spratt to refuse to buy the white clephant Nothing dannted, another effort tario Government knew more than Mr. Mercer probability of being successful, as, at time of Merce.

know about these limits. Of all men in the world, eastern men are the ones that land sharpers like best to get a hell of. A great many eastern men have money, and are on the alert to profitably invest it. To many of them pine land is pine land, which ends their know-ledge of the subject. We are ready to wager a very small sum that these New York gentlemen know no more about the lands they pro pose to buy, if they have not already bought them, than an infant knows about the north We make this statement, for it seems reasonable to us that if their knowledge was very extensive in that direction they would give more not to own the limits in that district than to awn them. But if they have sinned in this regard they have company, and that is a consolation often. Not long since a land shark entered what he called pino lands, in the Lake Superior district, without having seen them, and immediately sold them to New York gentlemen, without them having set eye or foot upon them, so as to double his money. They will learn, if they have not already done so, that their "pine lands," purchased as an investment, could not be given to a practical lumberman in the Superior district.

In looking up the facts connected with Gullier Mercer's great discovery, we learned that a Chicago pino land operator had been bit by the the same shark. The trap was intended this time to be spring by Toronto men. They had discovered the unknown country, and had limits in it to sell. They represented them as rich beyond description, and when the Chicago men had obtained their price, and the estimated production, he figured up that the timber would represent fourteen cents per thousand feet. Such a rare chance could not be overlooked. It was coritably "a soft snap," and at an expense of 81 000, or thereabouts, experts were sent to the Spanish River district to investigate. The result, in the light of present events, is very amusing, and it may be proportionately profitable to people who are contemplating making their fortunes in the lumber business on the much talked of river.

The trip was made up the river in a light draft steamer, drawing from three to four feet of water. Canoes were then resorted to, and in the first three days only fourteen falls, from twenty to eighty feet high, had to bogot around. It was a perilous attempt, and could not have been accomplished except that the exploring party had professional guides. There is some pine above the falls, and some years ago a daring spirit discovered the country and cut a lot of logs up there. There was no way to get them down but by water, and he set them affoat They ran over one fall after another, but the strain was more than they could bear, and when the owner last saw them they were literally smashed up. Some were made brooms of, and the others were broken in two. To this day when a bluish mist surrounds the hills away up the Spanish River, it is believed it is due to an eath, that has just taken shape, ejected by the foolish lumberman.

Before starting, the guides told this pine land hunting party that their efforts would avail them naught, for there was no pine to speak of on the river, but the party, believing that the guides had been hired to tell such a story, went on their way, and found—pine, in limited quantities, but it must so, if it over goes anywhere, · Hodson Bay. The same party also met the Spratt on the subject. Mr. Spratt is a shrewd Cana la Pacific railroad surveyors, also spoken of to Mr. Mercer, who have the discouraging take the bonanza upon hearsay, but said he information that nowhere along the line of the projected roads there pine in great quantities, The experts were chal to return alive, and, used to roughing it as they are, pronounce it the most dangerous trip they had over undertosen. There are Grand Rapids, Mich, landlookers who can give similar testimony, if needs

Toma I've City, Mich., paper we learn that one of the Alpena ewners of the limits, of which we have been writing, called at the office of was made. Judge Tuttle, of Alpena, and Mr. I that paper and soid that his land was not in-We went to work, however, and it did not Croyer Davison, of Harrisville, were applied to, childed in the Merce, find. Nobody has said it take a great amount of it to learn that the On to make the sale of the limits, with a strong was: but one would suppose, taking Mr. tario Government knew ones than Mr. Mercel constitution of being successful, as, at time of Mercel constitution would feel gave it credit for knowns. It had run its writing, negotiations are being made with New process to have the great, recently discovered surveys around promisciously in the great pine | York parties, the consideration being \$100,000 | country include his pine lands. It is not often, country. Possibly there was a strip of land | It is for the New York parties to rise and examples any circumstances, necessary for afdenial

from 50 to 100 miles long from east to west, and plain, providing they have a mind to, what they to procede an assertion, and this effort to make a mouth-piece of the Bay City paper looks wonderfully like a hedge against the expose at ready made by the Lumberman of the Mercer discovery.

> No one, after reading this history of the latest Canadian explorations, especially if it should bo learned that the New York parties have passed over their \$100,000, will doubt that there are pine land operators who have the ability to worm themselves out of an uncomfortable position whon they find that they have put their foot in it.

SALE OF LIMITS

The following are the details of the recent sale of timber limits in the Muskoka and Parry Sound districts:-MOWAT TOWNSHIP.

	Berth.	Square	Purchuser.	Price per
			T. G. Blackstock	
		19	C. J. Braton	
		•	T. G. Blackstock	
I	No. 3	27}	J. Keating	. 155
I	No. 4		T. G. Blackstock	. 300
ı			Cook Bros	
I			Mossom Boyd	
	No. 4	18]	D, Moore	600
I			A. Buest	597
I			R. Harris J. M. Martin	520 1,100
l		22	C. Cameron	
I	No. 1		ATTERSON TOWNSHIP.	710
ı			McArthur Bros	
I			J. Petrie	. 560 . 610
ı	No. 5		R Nagle Mills 70W\sinr	(4)
l		23}	J. A. Baron	
			M. Brennan	
		17	E. Evans	
i	No.1	103	INCLAIR TOWNSHIP. J. Hendersof	. 250
	No. 2	15}	J. Cockburn	. 330
İ			Cook Bros	
		B	ethung township.	
			Cook Bros	310 800
	No. 3			
	No. 4		OUDPOOT TOWNSHIP.	. 676
			R. Carnegy	300 750
			McArthur Bros	
	No. 4		J. Cockburn ourd township.	. 555
		25]	J. J. Kidd	
			R. Nagle	
,	Ya 1		achar township	430.0
•	No. 2	21	J. L. Burton	. 210
			A. McDougall	
		81	RONG TOWNSHIP.	
:	No. 1	19} 13}	H. H. Cook	600
:	No. 3	18}	J. Murray,M.P.P	
2	So. 1		oly townsing.	2,500
:	No. 2	21]	C E Romaine	166
			J. Bonfield	1,200
•	šo. 1	۸,۰ 173	a rikr totasii R. Nagle	. 200
١	iv. 2	. 22}	T. Murray, M.P.P	2(n)
			T. Marray, M.P.P	
		1.111	SGLE TOWNSHIP. McArthur Bros	
١	in 3	14}	W H. Burnett	160 225
١	io. 4		R. Thomson	105
			F. L. Stuart	119
			J. C. Miller, M.P.P . H. H. Cook, M.P.P	500 70
		17	H, Spoha .	140
٠	o. 1	.173	R Nagle	CA
١	0, 2		T. Smith	160 250
		18]	C. A. Brough	1,540
	0. 1	11138 	worm township.	141
١	0. 2	.42	D. Moore (Ottavia)	700
			J. R. Booth	1,110 240
	•			- ***



irst Prize, Provincial Exhibition First Prize, Provincial Exhibition. Grawa, 1875
First Prize, Provincial Exhibition. Hamilton, 1876
First Prize, Provincial Exhibition. London, 1977
First Prize, Industrial Exhibition. Toronto, 1879
First Prize, Industrial Exhibition. Toronto, 1879 International Medal, Centennial Ex..... Philadelphia, 1876

None genuine juniess with a STAR on the head of rivets. Send for Price Lists and Discount

81 Colborne Street, Toronto

STEAM, SAW & SHINGLE MILL J. T. LAMBERT. FOR SALE,

111 Acres of Land, Four Frame

Houses, Etc. Plenty Timber on Black River. Or, Mill and Limits two thirds cash. 4127

T. COOPER, Cooper's Falls, Ont.

WE HAVE

Oak, Elm. Basswood and Black Birch.

FOR SALE, to be Jut this Winter, apply to

Medonte Lumber Co'y, Hillsdale Or 32 Wellington St. West, Toronto.

FOR SALE.

The Dexter & Whitwam Manufacturing Company, offer for Sale the Entire

Real Estate Plant and Machinery

OF THEIR EXTENSIVE

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Situated in the City of St. Thomas, in the County of Elgin, Ontario. For full particulars apply to H. BROWN, Manager, or E. MOORE, President. L20tf

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Cherry, White Ash, Black Ash, and Dry White Pine Lumber.

Quote Price delivered, and Carefully Describe: -Quality, Widths, Length, Thickness, and how long Sawed.

ROBERT C. LOWRY.

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The subscriber being auxious to concentrate and on solidate his husiness, on account of his age, will sell at very low prices—

1st. His Mills and Farm near the Bradford Station, Northern and North-Western Ballway, together with Limits in Ridout and Sherbourne.

2nd. The Portage and Canal connecting Black River with Lake St. John, and Lake St. John with Lake Couchiching, in the Township of Rama. 3rd. Eight million feet of saw-logs now in Black River

4th. About 4,000 acres of land in different townships.

If not sold at private sale, the above will be offered to the highest bidder at some future time to be named, as I intend to close all out and concentrate in Michlam, where I now have mills.

All and any information can be had from Thompson Smith & Son, Forento, or James Durham at Bradford Mills.

THOMPSON SMETH. | 114

Lumber and Commission Agent.

FOR SALE.

150	Mills.	White Pine,	1 x 10 Stock.
175	**	do	1 x 12 "
11	64	do	2 7 10 "
20	44	do	2 x 12 "
140	**	do	1 inch Siding
20	44	дo	11 "
40	**	do	2 x 10 Joists.
16	64	Cedar,	3 x 6 "
19	**	Basswood,	1‡ inch.

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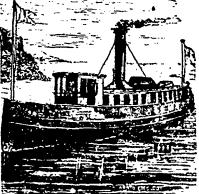
Cut to Specification.

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KINGSTON, ONT.

Esplanade Street, Toronto.



MANUFACTURER OF MARINE ENGINES.

MARINE BOILERS Propeller Wheels and Steam Yachts



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OTEBEC.

CEDAR AND HEMLOCK.

The value of the coarser products of the forest has not been well appreciated in the Northwest until quite recently, and even now not all of them are recognized, or their utility and commercial importance apprehended. It is but a few years since cedar was thought worth she labor of cutting; and a distant transportation, except for such trees as were suitable for telegraph poles, was considered out of the question. Now, however, a colar awamp at all contiguous to avenues of commerce, is esteemed of a value fully proportioned to that of the coarser varieties of pine, and in place of this timber being monopolized by the telegraph companies, it is utilized for fence posts, and is found fully the equal of oak for durability. The Chicago market alone has handled this year 3,000,000 pieces. The railroad companies, also, have discovered that cedar ties, while light of carriage, and consequently comparatively chean in the matter of transportation, make a valuable and durable tio, well suited for a prairie country, and over 4,000,000 pieces, enough to lay the iron for 1,500 miles of track, have been brought to the docks of Chicago, during the least season of navigation, for distribution throughout the country west of this point.

Thus, almost worthless, as it was considered. white cedar has contributed more than \$2,000,-000 to the business of Chicago during the season of 1881, and, doubtless, were the statistics of 4he entire Northwest available, it could be shown that the forests of the states of Michigan and Wisconsin, with perhaps a small quantity from that portion of Canada which borders on she great lakes, have aggregated, during the present year, a production of the value of fully \$5,000,000 from this same source.

The value of the hemlock forests of the Northwest has not yet adequately dawned upon the minds of those who own large tracts of it, which a foolish and short-sighted lack of appreciation is permitted to go to destruction, while it yields but a tithe on the financial benefit which it is capable of affording. The hemlock forests of Maine, New York and Pennsylvania are made to yield a revenue somewhat commensurate with their actual value; but those of the Northwest are permitted to go to destruction. with scarcely an effort at obtaining a compensa tion for the labor of destroying them. In the former states the tree is made to yield a revenue from its bark, which forms one of the most valuable tanning commodities known the world, nd it value has been fully recognized by the denizens of the old world, as shown in the fact that England, France and Germany export vast quantities of raw hides to the eastern states of America, to be treated with this valuable tanning property, and returned to the respective countries whence they came, when, after a further treatment, by a process peculiar to each nation, a no inconsiderable proportion of the leather again finds its way to the United States for final consumption.

But the hemlock tree of the East has not fully ended its mission when it has yielded up its hark to the tanner, and the trunk finds its way the saw mill as a timber second in value only to white pine, for a large portion of the uses to which the coarser grades of pune are adapted. The silly projudice which is exhibited in nearly every section of the western country against the use of hemlock as a building material, is in narked contrast with the high esteem in which is held in all the castern states for all the uses scluded in the category filled by dimension Eastern builders of large warehouses. taying their choice between the use of white ine and hemlock, almost invariably choose the atter, from its greater stiffness and strength, nowing that its durability is inquestionable in Il points in a building where it is free from isitations of wet and dry. A western builder, in the contrary, although able to obtain hemicel it a reduced price from the cost of pine, invariably rejects it, and remess to have it placed in his building, simply because he does not know anything about it, and thinking that he does know all about pane, will permit quick rotting say to be placed where sound hemiock would outlast it, two to one. The farmer of the West would pay one-third more for pine boards with which to build his granaries, notwithstanding

building in waste alone, before it had been in use three years.

The forests of Michigan and Wisconsin, as well as those of Canada, abound in scattering hemlock, and at least 1,000,000,000 feet of good timber is in those localities stripped of its bark each year for local tanning purposes, while the trunks of the trees, which might be utilized in the manufacture of valuable lumber, and at an expense greater than would be incurred in bring ing them to a saw mill, are tumbled into a log heap and burned to get them out of the way. It is but a few years in the future when hemlock timter will assume the position in the West which it already holds in the East, and those who now so ruthlessly destroy it will come to think of it as did many, regarding the pine, black walnut and oak, which a quarter of a cen tury ago were cut down and burned to them out of the way.

The forests of the old world are almost wholly denuded of their tauning materials, and what is left is guarded with jealous care. The hemlock resources of the eastern states are becoming so limited as to receive a marked measure of watch fulness, those of the Northwest are yet abundant, and it behooves their possessors, in view of the recent discoveries which enable the bulky bank to be compacted into economical shape for transportation even to Europe, to conserve and and protect this valuable timber, which in many respects is more available to the uses of man. and masses as an economic value of greater extent than the pine. The latter is of the greatest value, as a firm building material, in which it will always prove superior to hemlock or any other timber, but it is valueless as to its bark, or even as railroad ties. The hemlock, on the contrary, as a coarse building material, is in every respect equal to pine, its limbs, when of sufficient size, are available and valuable for the manufacture of ties, while its bark has no superior as a tanuin. Let those who now con trol the hemlock forests of the Northwest learn the lessons of its value, as taught them by the denizens of the old world, and of the castern states of our own country.-Northwestern Lumberman.

NEW BRUNAWICK EXPORTS OF WOOD

The Monetary Times says the export of sawn umber and square timber from the port of St. John forms at all times an interesting feature of our trans Atlantic trade. This year's shipments continue to be principally made by the same parties as in former years. During October, however, a larger proportion appears to have gone to the Continent of Europe. The October statement shows that out of a total export of 18,489,000 feet of deals, batten, and ends, 2,-738,000 feet, or about 15 per cent, went direct to the Continent, forty per cent to Liverpool, and thirty five per cent to London. The remaining tenth was shipped to Irish and other ports in the United Kingdom. The number of vessels despatched for the month was 25, of an aggre gate tennage of 11,437. These carried, in addition to the deals, &c., already mentioned, about 360 tone of birch timber and 967,000 feet of scantling boards and palings The leading shippers were in order, Alex Gibson, R. A. & I Stewart Guy Bevan & Co. W M Mackay, and we perceive in the list the name of the Spool Manufacturing Co. of Peticodiac, as shippers of 110,000 feet, mainly deals and

The lumber and timber shipment of the season from St. John to ports across the ocean, i. c., for the ten months from the beginning of the year to the end of October amounts to 179,000, 000 superficial feet of deals and boards, 3,969 tons of blich timber, and 806 tons of pine tim ber. These are classified as under:-

LCMBKR.	i	ı
Deals, battens and deal ends, sp. ft	172,974,735	l
Boards and scantlings sp. ft	5,756,285	ı
Deals, battens and deal ends, sp. ft Boards and scantlings sp. ft	393,000	ĺ
TIMBER.		ı
Dinaturbas tons	LVOC:	ı

Of the timber, 2,938 tons of birch and 743 tons of pine went to Liverpool, 1,002 tons of birch to Carnai ven, and the remainder to Dundalk. Wexford, and Waterford. Of the lumber, about 20,000,000 feet went to Bristol Channel, that the advantages of hemlock in excluding I nearly 20,000,000 feet to the Continent, 7,700, I The average price of first-class lumber is grow in this district. Thirty or forty men are

rate and mice would often save the price of the 000 to Scotland, 1,200,000 to Australia. But \$8.20; for second class, \$7, and for third-class 77,000,000 feet, or about 43 per cent. of the whole, was destined for Liverpool and London. The proportions shipped to various ports are shown by the following list :-

	`	Ft. deals, &c.	Ft. boards. &c
į	Bristol Channel	24.985.098	1.180,217
I	Continent	19,683,334	200,281
	Glargow	7,082,239	296,576
	Queenstown	1,232,649	37,074
i	Liverpool		3,090,621
ı	London.	14,623,908	597,496
Į	Belfast	8,878,064	••••
Ì	Dundalk	1,584,694	••••
	Limerick	2,420,091	
ŀ	Londonderry	3,952,918	• • •
ŀ	Fleetwood	446,008	
ļ	Waterford	. 866,083	• • • •
I	Sligo	405,793	••••
ı	Wexford	679,977	••••
1	Newry	1,721,670	1,167
Į	Drogheda	767,119	•••
ł	Carnaryon	560,660	
ı		6,689,903	52,455
ı	l'ortrush	674,201	·
I	Dublin	7,983,444	20,488
l	Westport	633,294	••••
Ì	Bantry	426,662	••••
l	Galway	540,795	•••
l	Africa	1,000,331	114,324
i	Mumbles t. o	702,513	11,977
	Warrenpoint	1,078,647	
	Ayr	. 415,115	
	Australia	1.005,804	62.C07
	Dungarvan	. 422,639	• • • •
	Faversham		1,088
	Wicklow	°!4,540	• • • •
	Plymouth	440,548	
	Clare Castle	315,624	••••
	Hare Island	567,739	•••
	Barrow	1,390,794	64,946
		172,974,735	5,756,285

THE LUMBERIBUSINESS IN AUSTRIA.

The following interesting letter appears in the Northicestern Lumberman .-

Mokre, Post Szczawne, Gallicie, Austria, October 26, 1881.

Doubtless this letter is written by one of your nost distant readers, but coming, as it does, from the Carpathian mountains, now the most important forest region from which the middle European lumber markets receive their supply, it may contain some items of interest.

The greater part of the woodland in this coun ry is fir and pine. There are also large quantities of oak and maple, and considerable beech. As the principal woods are fir and pine, all m. remarks about the lumber business will have reference to those two kinds. The lumber in this country is counted by the cubic foot, but the following statements refer to English square feet, and the prices are reduced to your money

The saw mill business in this country, as compared with that of America, is much behind the times. The wealth of wood is immense, although when timber is bought in large quantities it is very cheap, selling at from fifty to eighty cents per thousand feet. Wages in the Carpathian mountains are very small, ranging from fifteen to twenty cents per day. The saw mill man here does not generally make much money, but it is his own fault, and is owing to his old fashioned, expensive way of operating.

There are some mills here with eight and nine gangs, although the majority of them have but three or four, and as many small circulars, with benches for edging boards or cutting lath. The maximum capacity of such a mill is from 15. 000 to 20,000 fect in twelve hours; but as the gangs need a great deal of repair, from 12,000 to 15,000 is a good average. Such mills cost from \$20,000 to \$25,000.

The logs are mostly brought to the mills on raggons, and it is seldom one sees rollways, drives, etc. The reason for this may be that vagonage is very cheap, running at from fifty to eighty cents per day for a two-horse team, though the work is often so meanly and unsteadily done that half of that money is too much to pay for it. For cutting down the trees and working them up into logs the price is forty five or fifty cents per thousand feet. The cost of bringing logs to the mill is from \$1 to \$2 per thousand feet. The cost of cutting the logs into boards is usually \$2,50 per thousand feet, though it is sometimes \$3 and \$3.50.

\$5.50. Most of the mills work with small capital, and are obliged to buy the wood in small quantities and pay from \$1 to \$1.40 per thousand feet for it.

I am sure that the cost of production, as well as that of bringing the logs to the mills, by proper management, could be reduced one-half. and that an American saw mill man, with ample capital, and a well-arranged mill, could do a very good business here. There are enough American oil men in this country looking up business, but I believe that lumbermen would find a more profitable field for their business.

Should any of the readers of the Lumberman wish to learn more of the state of the lumber trade here, I will answer any enquiry with pleasure.

FRED BADER.

THE DULUTH LUMBER CO.

The Lake Superior News says this is the title of a new lumbering concern that proposes to take a large share in the development of Duluth's manufacturing industries This com pany is organized under a charter from the State of Illinois, and will have an office in Chicago as well as ir Daluth, though its main business will necessarily be transacted in the latter place. The officers are, S. K. Martin, President, R. L. Henry, Treasurer, Goo. Green, General Manager, and H. B. Moore, Secretary, the last two gentlemen having their office in Duluth. The capital stock of the company is \$300,000, and a portion of this sum is already being invested in a saw mill, now well under way. The piles for the foundation are all driven, the mason work largely completed, and the framing also well advanced. mill is to be 160x54, with a wing 31x64, and the engine room 64x50. Six boilers will run the huge engine, which will have 500 horse power.

The mill will be supplied with a circular saw and also a gang, with edgers, trimmers, steam feed, and all the latest improved machinery. and will have a capacity of 100,000 feet per day. The mill will be in readiness for business by the opening of navigation next spring, and already the proprietors have contracted for 25,000,000 feet of logs, part to be cut on the St. Louis river, and part on the South Shore.

Mr. H. B. Moore, the secretary of the new company, has been in Duluth for a year or more, and is reported to be thoroughly posted in all branches of the lumbering business. Mr. George Green, the general manager, is a new comer, but the fact that he holds such a position in this strong corporation is a guarantee that he is a competent business man. Duluth may con sider herself fortunate in securing such an addition to her lumber firms as the Duluth Lumber Company.

A RESTIGOUCHE SPOOL FACTORY.

The Spool Factory of Messrs. C. G. Beckwith & Co., at Jacquet River, Restigouche County, which was destroyed by fire a short time ago, is being rebuilt and will be ready for operations in a few weeks. The new building will be a much more substantial structure than the former one, and better adapted for the pur poses for which it is intended in many respects. The main building is 150 feet long by 36 feet wide, and has 14 feet posts, with rafters 36 feet, which gives it a very heavy, steep roof. This is to prevent snow from lodging on it, which caused a great deal of trouble to the former building last winter, often endangering the roof. Besides the building, the dimensions of which are given above, there are the boiler and engine house in connection with it on the north side, and another building 80 feet in length joined to it at the east end, which is intended for kilns, etc. On each side of the roof of the main building are two rows of windows, built dormer fashion, which light the upper story under the roof, so that the whole building is as convenient and well lighted as if it were really a two storey one. A blacksmith shop, a large cook house and several dwelling houses stand near it, forming the nucleus of a village. The site of the factory is on a branch of Armstrong's Brook, about two miles from the I.C.R. station at Jacquet River. Great quantities of white birch, of excellent quality for spool making,

at present employed in the work of construction, but the number of hands kept at work when the factory is in operation exceeds this considerably. A great deal of employment, too, is given to farmers in this neighbourhood hauling wood to it during the winter. The new settlement around the factory is to be called Beckettville. -St. John, N.B., Sun.

SHEER BOOMS.

During the past season the sheer booms intro duced by Mr. L. W. Pond, of Wisconsin, on the Upper portion of the St. John River and its tributaries, have been subjected to a practical test, which has demonstrated their usefulness in a high degree; in fact, the sheer booms have revolutionized the running of logs down river to the rafting grounds of the Fredericton Boom Co. Till the introduction of Mr. Pond's invention, the logs, set affeat by the spring freshet, helplessly followed the course of the current down stream, and were, as the water fell, or through the action of the wind, deposited by thousands on bars and heads of islands, and, where the shores were low, were scattered in land over miles of intervale, from which their removal often cost more than the logs were worth, besides subjecting the company to damages for injuries done to the meadow lands. The work of following the drives down and sacking the shures was therefore one of the most expensive writions of the river operations. Pond's she booms have practically cut this down to a minimum, the modus operandi being as follows :- Sheer booms are placed at the heads of the islands and shoals, and wherever the set of the current would carry the logs over the low banks, at such angles that the logs striking against them are shot out again into current and so carried on successively past each old resting place in safety to Federicton. In this way the main drive is kept moving while the water is high and all the logs are got to market, whereas, under the old method, s sudden fall of water would leave the shores and out of the way lodging places lined with thousands of logs. Full advantage can also be taken of a sudden rise of water in midsummer or fall, to rush through logs that had been hung up earlier in the season. The extraordinarily large run of logs during the past season proved, be yond doubt, the great benefit these booms are to the lumber operators along the upper St. John, and this test will doubtless have the effect of introducing them on other rivers in the Province. Mr. Pond is now arranging to put his sheer booms on the Restigouche next season, with every prospect of success; and it is not unlikely that, at no distant day, they must be working on the Miramichi.-St. John, N.B.,

THE DURABILITY OF REDWOOD.

Mention was made in a recent issue of this paper of the suitability of redwood for wine casks. Mesers. Fulda Brothers, of San Francis co, tells us that redwood casks have been used in California for many years; indeed, two thirds of the vast wine crop of that State is fermented and stored in casks and tanks made of this timber. The casks simply require to be slightly steamed and well soaked to remove the color; after that the fermentation of the wine does not extract any color or taste.

The trade in redwood is becoming of considerable importance, a great deal being shipped eastward to Denver, Onisha, Kansas City, and the Atlantic coast as far as Rhode Island.

The wood is specially valuable in situations which occasion rapid decay in other timber. Seventy years ago the Russian Fur Company erected a redwood stockade at Fort Ross Alaska. The posts were cut down level with the ground some years ago, but the buried parts remain perfectly sound, excepting the thin layer of sapwood near the bark, the alternate raking and drying of seventy years having no injurious effect upon the heart wood. A piece of one of the posts, with a certified statement of its history, was sent to San Francisco a few weeks ago. The sender, Mr. G. W. Coll, of Fort Ross, states that he knows of shoots from old stumps which have grown to be three or four feet in diameter in forty years, indicating a hopeful restorative power in redwood forcets volatizes the coment hardens and becomes imunder favorable conditions.

The redwood in denand in California for underground uses is what is known by the lumbermen as "black-hearted redwood." Tt. shows a dark color when cut with a knife, the the outer layer only becoming "seasoned." "Black heart" is exceedingly heavy too heavy to float. One who has observed schooner-lead ing at chutes along the coast tells the Pacific Rural Press that a post of this wood which plunges overboard never rises, and a board lingers on the surface a moment and then slowly slides down into the depths. This is the sort which is sought for in foundations, and under brick walls is believed to be imperishable. -Scientific American.

A New Species of Horses.

The Annals and Magazine of Natural History for July contains a translation of a Russian paper, in which M. Poliakof brings forward a mass of evidence in proof of the existance of a hitherto unknown species of horse, not far from Zaisan, in Central Asia. The animal appears to resemble a small domestic horse, of a dun color; its head is large in proportion to the size of the animal; and the root of its tail is destitute of long hairs for some distance. M. Polikof names his supposed new species Equus Przewalsku, in in honor of the traveler who brought the skin to Russia. He regards it as a true horse, and remarks that "if it were possible to prove that culture influenced the growth of the tail, and that this became more hairy, and the mane longer, under altered conditions of life," it might be affirmed that "it was indeed the animal whose ancestors were reclaimed by man in the stone period, the so-called domestic horse of our day.

Preserve the Forest.

The Monetary Times says the time has come for paying greater attention to the remains of our forest wealth, be it great or small. Each province has a Crown Lands Department , but the object of these departments has hitherto been rather to sell than to preserve the timber. Great attention is paid to forestry on the conti nent of Europe, where firest literature has reached extensive dimensions. Our forest literature has yet to be written , and apparently we shall begin seriously to study the subject about the time when we have cut down or burnt up our last forest. The United States is becoming alive to the daily increasing necessity for the preservation of its forest wealth. It is useless to regret the wholesale destruction that has been practised in the past, the one thing needful is to repair it so far as the future needs of the country may require. This work has been commenced in the States; we shall do doubt follow at a greater or less distance.

A Labor Saving Appliance.

Knapp, Stout & Co., with mills at Menomince, Wis., give the following description of the machinery with which the rafted lumber is taken from the water at its yards at St. Louis, Mo. -We are now operating our pulling machine, and when completed we will be able to handle with it 500,000 feet daily. The track, with six rails, runs out into the river below the low water mark, and back about 200 feet from the shore. On top of the main car, which is 16x44 feet, is another car, 10x32 feet, on which the crib is floated, and then drawn out by machinery and pulled off at right angles from the main track, thus keeping the track into the river, for another top our can be run back to the river for another crib. Our cribs of lumber are 16x32 feet by 50x26 mches deep, and weigh 30 tons. We use a pair of 10x20 inch engines for pulling out the car, and a small engine for We use a large pump and hose transferring. for washing.

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tor-igh, Ont.

Communications intended for insertion in the CANADA Lawardam, must be accompanied by the name of the writer, not necessarily for publication, but as a guarancee of good faith. Communications to insure inserts in the accepted in the rollowing number, should be in the hands of the publishers a week before the date of the next issue.

PETERBOROUGH, Ont. DEC. 15, 1881.

ATTENTION.

With this issue we complete the first volume of the Canada Lumberman, as well as the year In doing so the publishers desire to return their thanks to all who have aided them by their countenance and support since they undertook its management. To render the CANADA LA WHERMAN the success which the publishers desire, and, what is of more consequence, of real benefit to the trade, they are of opinion that two things are absolutely necessary to this end, and these are, - a greater readiness on [the part of those engaged in the trade to furnish us with information for publication, and generally a greater promptitude in the payment of sub-

scriptions. Just now, for instance, we conceive it would In very desirable, and very much in the interest of the trade, if we could place before them a tolerably reliable and full statement of the storts of lumber, shingles, logs, and square timber in manufacturers' hands from the cut of these ison of 1880-1, on the first of January. 1882 Of course in the present instance we would have no similar records for previous years with which to make comparisons, and to draw conclusions from, but it would still be of considerable value, and it would be the beginning of a record which would prove of great value in the fature. Under existing circumstances such a statement, however, can only be obtained by each one engaged in the trade undertaking to torward us a brief memorandum of the stocks held by hmiself, and by his neighbours, where he can do so, from other information than merc Luc - work, as data from which we might make up di trict statements. As the labor involved in e-liating and comparing such returns will be con-iderable, we would suggest, as a matter of convenience, that the senders should state first the particulars with regard to their own holdmy or those firms in which they are interested, secondly the same particulars with regard to the holdings of others with which they are familiar, and thirdly their general opinion as to the relative tooks on hand now and a year ago, and have entered. If each one would only do this Guette,

for himself, they would furnish us, and in that way obtain for themselves, an amount of inform ation which could not fail to be of considerable value, without materially trespassing on their holidays. Will they try !

With regard to the second point, by reference to the labels on their papers, they can see just how they stand. For instance, when they find "2 Oct. 81" following their name it require two dollars to pay their subscription up to the 1st Oct. last, and the same way whenever a figure precedes the month. If they have paid they will find, or should find, the figure "0 before the month on the label. In fact whenever they find a figure before the month on their label, they are indebted to us for that amount, and although the amount, of itself, is small, yet they amount to such a large sum in the aggregate that, if paid, it would send us on our way rejoicing.

In conclusion we beg to take this, the first opportunity we have had, of wishing a constituency extending from Nova Scotia to the Rocky Mountains a Merry Christmas and a Happy New Year, and to express the hope that it is only the first of many occasions upon which we will have the pleasure of doing so.

VALUABLE SUGGESTIONS.

We beg to call the especial attention of our readers to the article headed "Suggestions from Maine, which we have reproduced in this issue from the Northwestern Lumberman. It appears that in this neighbouring State they have in a measure solved the problem of perpetuating the supply of lumber from their forests. Our readers may well consider whether we in Canada may not learn something from this example. In some portions of our forest lands some such plan, properly modified, might well be adopted.

THE timber trade out of Hamilton increased considerably this year, and it seemed as if we had indeed returned to the good times of old to see the many cargoes and rafts of timber which left Hamilton during the past season. It is hoped they will still be more numerous next

THE timber limits, null site, and dock at Batchewana Bay, on the North Shore of Lake Superior, which were offered for sale by public auction in To onto on the 5th inst., failed to find a purchaser. Only one bid of \$10,000 was offered, and, this being below the reserve bid, they were withdrawn.

THE Upper Ottawa Towing Company, which has recently been organized for the purpose of nasigating the Upper Ottawa and its tributaries, have acquired four of the steamers of the Union Forwarding Company, and intends constructing three new boats which will be ready for the opening of navigation. The fleet will be princi pally engaged in towing timber and saw logs, but passenger boats will also be put on the

A RECENT telegram from St. John, N.B., says there is plenty of snow in the woods on the upper St. John and its branches, and the lum sermen are now fairly at work. The estimated total of the lumber to be cut on the upper St John this winter is 65,500,000 feet. This, however, does not include the operations on the Aroostook and the Tobique, which will swell the aggregate to not less than 90,000,000 feet. This is about three fourths of the amount usually obtained.

A GREAT forest of long leaf pines covers more than one third of the area of Mississippi. This vast forest, taking into view the quality and use of the wood, the mexhaustible supply, the great height and size of the trees, is an enormou store of undeveloped wealth. There is no other such pine forest to be found in the world. A far back as 1753, France supplied her navy with masts and spars from this forest. It is penetrated by numerous water-courses, which are capable of floating the timber to the gulf-coast for a distance of about 100 miles. It stands next to coal for fuel in factories and machine shops, and yields turpentine more abundantly the Ambilities for the season upon which we than any other species of pine. - Lumberman's

THE Quelice Timber Company intends to apply to Parliament for an Act of incorporation.

Mr. B. Vot So intends to have 100 men in the lumber woods. Haltway River, and head of River Hebert, during the coming season, in Cumberland County.

THE Bangor, Me., Commercial says the faishing up of the season's sawing, the sending of teams to the woods, purchasing of supplies, employing of laborers and preparing the mills, lumber goods and logs for winter, make this the busiest of all busy seasons for our lumbermen. The winter's operations will not be as heavy as last year, owing to the increased cost of labor and the low price of lumber.

Mr. William Mackey, of Ottawa, accompanied by his son and another gentleman paid a visit to Peterboro' last week, for the purpose of ispecting Messra, Irwin & Boyd's mill, and gathering information about saw mill machinery, as Mr. Mackey is about creeting a new mill on the Ottawa. In the course of the day Mr. Mackey also visited the shops of Mr. William Hamilton, and was so well pleased with what he saw there and we have no doubt but that the visit will lead to business. We may add that this was Mr. Mackey's first visit to Peterborough and that he was induced to make it solely by what he had seen in the Canada Lumberman with reference to Messrs, Irwin & Boyd's mill and the manufactures of Mr. Hamilton.

THE Northwestern Lumberman rays that Bond & Jenkins, some time since, had a quantity of lumber burned on the dock at Oswego, N.Y. The lumber was shipped from Canada, and the duties or it had not been paid. The firm informed Collector Fort, of that port, that they did not wish to pay customs duties on the burned lumber. The collector insisted that the payment must be made, and at length Bond & Jenkins appealed to the treasury department at Washington for a decision in the case. A reply was received from the department that duties on the burned lumber need not be paid; and there was where Bond & Jenkins had the advantage of Mr. Fort. This decision might be considered a test case.

THE Timber Trades Journal says that the trade in imported house joinery is assuming large proportions, judging from the steadily increasing supply coming forward both from the Baltic and America. The door trade especially is reported to be brid; and it is becoming quite a department of the timber merchant's business to keep a stock of these goods. Consumers find it very convenient to buy doors, windows, &c., ready made, thereby saving the trouble and delay of manufacture, although it is questionable whether they could not be made cheaper at home, when heavy railway carriago has to be taken into account. In pine doors we are pleased to hear that Canadian goods appear to be finding great favor, being as a rule well finished off, and thoroughly well seasoned and glued The colonials now supply a good together. door, moulded on the solid, giving all the advantages in appearance and wear possessed by an ordinary moulded door at the same price as a square one of the same dimensions.

OUR FOREST WEALTH.

THE realization by the Ontario Government of over seven hundred thousand dollars, in a single day, for the privilege of cutting timber on the public domain, should of itself, be sufficient to induce the adoption of prompt and vig orous measures for the protecting of our forest wealth. Large however, as is the sum which has been obtained at the sale of the 6th inst., it is after all but a moderate portion of what the Province is likely to receive for the same, and but a very small portion of what it will undoubtedly receive, can the timber now on this twelve hundred odd square miles be protected from its great enemy - fire.

It is true that at the instance of the present commissioner of Crown Lands-Mr. Pardeethe Ontario Legislature some years ago placed of the sale. Among those present vent the setting out of fires during the danger- connected with the lumber trade were Cook

ous seasons of the year, but however good that act may be, it has remained practically a dead let ter, owing to its being made the duty of no per son or persons to see it enforced, and we believe it will continue so unless the Government ap point proper persons for that purpose. That the importance of the interests involved wil justify any reasonable expenditure for such a purpose will not for a moment be disputed.

As matters are now going the day cannot be far distant when the valuable patrimony which we inherited from past ages in our forests will be a thing of the past.

Timber, like that for which we are just now receiving annually large sums, and which direct ly and indirectly is giving so much employment to our people, is not produced in two or three life times, it is therefore bound to decrease quite rapidly enough under the lumberman's axe, without adding to its depletion by wanton fires, which might be largely prevented by the adoption of proper measures to that end, and by excluding settlers from our pine lands. Of course we are aware that there are these who will cry out against this latter suggestion, but that does not compensate for the millions that have been lost, or prevent the country from being large losers in the way of revenue and employment, by the Government encouraging indiscriminate settlement. The high bonuses already paid and the dues still to be paid for some of the limits sold last week prove, that much of these lands is worth infinitely more to the country for the timber that now stands upon them than the settlers could be, even if a prosperous one could be placed on every hun dred acres-a thing which is impossible, because it is notorious that the best pine lands are the least adapted to the wants of the settler—unless he be a timber shark.

Moreover, the encouragement of indiscriminate settlement and a failure to protect the tim ber from the fire fiend is a great injustice to the men who invest their money in these limits, as well as the Province. High as the prices realized at the recent sale were, they would undoubt edly have been higher, had the purchasers been guaranteed reasonable protection against the destruction of the timber they were purchasing. Indeed the great risk run from this cause every year that it is allowed to stand, compels its owner to cream it as quickly as possible in order to secure himself against loss, notwithstanding that such a course is wasteful of valuable timber, and calculated to depress the lumber mar-

It is to be hoped that the importance of this subject will no longer be overlooked by the powers that be, but that speedy and otherent measures will be adopted whereby the most may be made out of our forests, and the evil day when they will cease to yield an income to the Provincial ex chequer, and afford employ ment to our people be posponed as long as pos nible.

GOVERNMENT SALE OF TIMBER LIMITS IN MUSKOKS.

The Legislative Chamber in the old Parliament Buildings on Front street is a quasi-sacred place. When the legislature is in session woo be to the unlucky wight not wearing M.P.P. after his name who ventures therein! He is immediately pounced upon by the sergeant-atarms and borne away no one knows whither, perhaps to the dungeon or the tomb. But on Tuesday, Dec. 6th, the gloomy old chamber wore a different aspect. It you had dropped in shortly after noon you would have seen the speaker's dias occupied, but not by the speaker, and the member's chairs filled, but not by the members. The occasion was the rarely-occurring one of a sale of timber limits by the Ontario Government, and the occupant of the dias was Mr. G. B. Cowper, of the Crown Lands depart

ment,
THE AUCTIONEER FOR THE NONCE, who wielded an obony ruler instead of the customary gavel, while filling the chairs and spreading over into the ladies' gallery were leading lumbermen from all parts of Ontario, or those who were acting in their behalf. At the side of Mr. Cowper sat Hon. Mr. Pardee, commissioner of crewn lands, in general supervision

Bros. and McArthur Bros., Toronto; J. R. Booth and R. Nagle, Ottawa; J. C. Miller, Parry Sound; E. W. Rathbun, Descronto; J. Cockburn, Gravenhurst; J. Petrie, Guelph; T. Murray, Pembroke, J. Bonfield, Eganville, besides several American buyers from Bay City, Sagmay, Tonawanda, and other places. The gentlemen from the other side, however, did not invest to any great extent, the large majority of the berths going to Canadian firms. Be sides those engaged in the lumber business were one or two Torontolawyers, who bought largely in the interests of other parties.

HOW SALPS ARE CONDUCTED.

A sale of timber limits is not an overyday affair. Tho law, with a wholesome fear of what might occur under the stress of "party exigen cies," does not permit timber limits to be disposed of in the usual way as lands for settlement purposes. The latter may be bought at any time, but the former can only be obtained when the Crown Lands Department brings on a sale, which must be by public competition. Hence the crowd of lumbermen and others on Tuesday, anxious in the present presperous tate of the lumber trade to obtain limits, and knowing that this would probably be their last hance for years to come. The last sale of tim-ber limits by the Ontario Government was in 1872, when over \$500,000 was realized. On Tue-day timber berths in the townships of Mowat, Blair, McConkey, Hardy, Patterson, Mills, Sinclair, Bethune, Proudfoot, Gurd, Machar, Strong, Joly, Laurier, Pringle, Lount, Nipissing and Himsworth, all in the Muskoka and Parry Sound districts, were offered for sale. The limits aggregated

1,411 SQUARE MILES; horths amounting to 130 square miles were with drawn, the reserve bid not being reached, and the remainder sold for a total of \$717,176, or an average per square mile, exclusive of ground vent, of \$560. This is a most remarkable showing, and the significance of the figures will be realized when it is stated that at the last sale, which was held by the Quebec Government, the average was only \$98, while the sale held by the Ontario Government in 1872 produced an average of only \$199. The bidding on Tuesday afternoon was at the outset slow and backward, the first couple of berths being withdrawn, but it quickly grow rapid and lively, and in some instances very largo figures were reached.

THE HIGH EST PRICE PAID was for berth No. 2 in the township of McConkey, which was knocked down to Mr. J. M. Martin for \$2,500 per square mile, or a total of \$10,000; berth No. 1 in the township of Joly was sold to Mr. J. L. Burton for \$42,550, or \$2,300 per square inde; No. 4 in Nipissing to C. A. Brough for \$28,875, or \$1,540 per square mile; No. 3 m Mills to the same gentleman for \$25,381, or \$1,410 per square mile; No. 3 in Joly to J. Bonfield for \$21,900, or \$1,200 per square mile : No. 1 in Strong to McArthur Bros. for \$11,000, or \$1,100 per square mile; No. 3 in Himsworth to J. R. Booth for \$17,760, or \$1,110 per square mile; No. 3 in Sinclair and No. 1 in McConkey to Cook Bros. for \$14,810 and \$22. 837, or \$1,060 and \$1,050 respectively per square mile. The lowest price reached was for No. 3 in Mowat, which was sold to T. G. Blackstock for \$937, or \$50 per square mile. The sale alto-

A MOST SUCCESSFUL ONE, fully realizing in the matter of prices the exformerly stood, limit holders had only five years in which to remove the pine from the lands which they had under license, any timber remaining after that time belonging to the settler, but at the last session of the legislature an Act was passed under which a licensee on payment of the ground rent (82 per square mile) and dues may renow his license from year to year, the Government after a certain number of years paying to the settler a percentage of the dues collected upon the timber cut. The disparity between the prices paid for different berths is of course accounted for by the variety in the quality and quantity of pine, the facilities for floating down streams, acreage burnt, etc.

No information

No information was licensed from the lands which has exceed the quantity of pine, the facilities for floating down streams, acreage burnt, etc.

No information

No information the less wonderful medicine. The disparity between the prices paid for different berths is of course accounted for by the variety in the quality and quantity of pine, the facilities for floating down streams, acreage burnt, etc.

No information

No information to Nerrous Sufferers. The internal to Nerrous Sufferers. The matter to Nerrous Sufferers. The matter is none the less wonderful. One or two dozes frequently curs sore throat. It will unrecrouply in a few minutes. A few bottles has then cured by na teappoonful dose. It cures with the unnost two dozes frequently cured in the will be an indicate. The sufference on payment of the strains and instead the unnost who have say when suffering in the lark stages of Consumption, or suffering in the lark stages of Consumption, or suffering in the lark stages of Consumption, or suffering from lung disease, if their playstatin fall stages the lark the playstatin fall stages of the dealth and the season of the suffering from lung disease, if their playstatin fall stages of the dealth and less the playstatin fall stages of the dealth and lines. The lines of the suffering from lung disease, if their pectations of the Government. As the law

nation for themselves of such limits is they wished to buy. As one facetrons I abstraction put it when the sale was drawing to color and the auctioneer remarked in the arm to ness of the room, " We see to note that $\tau_{ij} = \tau_{ij} = t^{ij}$ theafternoon. Lumbermen, how is singled ly know what they are doing and to a methose at the sale on Tuesday deline! Ish ethey were exceptions to the rule. As a matter of fact all the firms sent out experts to execute the se eral borths, and of course the reports made thereon were kept a profound so not soon, however, as the berth was knowled down the lumbermen would tell one another what their report was. For instance, one besthe ver which there was considerable competition was reported to one firm as being and for three quarters of a million feet per mile, and another firm had it rated at one million. One centle man, however, nearly caught himself in the matter of a bid. One fimit which was a ing up by \$10 bids, and had reached the sum of \$2,0%, when the audience was suldenly surprised to hear him ejaculate "\$1,600." This, of course, put a stop to all further competition, and the berth was knocked down to him for that sum. It turned out, however, that the torcager buyer had only intended to advance the usual 800 and ay "\$2,100." The limit was accordingly put up again and ultimately sold to another for 82. 300.-Toronto World.

THE frame work of the knitting factory on Goderich street, Halifax, is fast approaching completion. The manufactory will give work to some forty or fifty hands.

M. LEGRU, the Paris capitalist, now in Quebee, says that fifty millions of france have been subscribed in Franco for investment to local in dustries in Quebec Province.

ONE EXPERIENCE FROM MANY. I had been sick and unserable so long and had caused my husband so much trouble and explicit in seemed to know what alled me, that I were consequently the seemed to know what alled me, that I were consequently as the seemed to know what alled me, that I were consequently as the seemed to know what alled me, that I were consequently as the seemed to know what alled me, that I were consequently as the seemed to know what alled me, that I were consequently as the seemed to know what alled me, that I were consequently as the seemed to know what alled me, the seemed to know whether the seemed to know whether the seemed to know which we will be seened to know whether the seemed to know whe seemed to know wint ailed me, that I we completely disheartened and discouraged. In this frame of mind I got a bottle of Hop Intters and used them unknown to my family. I soon began to improve and gained so fast that my husband and family thought it strange and innatural, but when I told them what had helped me they said. "Harrah for Hop Bitters" long may they prosper, for they have made in their well and us happy."—The Mother. - Home Lowend.

well and a happy.—The seasons formul.

A Reliable Fact.—It is an established fact that Hagyard's Pectoral Balsan is the best cure for coughs, colds, sore throat, asthma, croup, bronchitis, and all troubles arising from neglected colds. Price 25 cents.

Decline of Man,—Impotency of mind, limb ar vital function, nervous weakness, several delility, and all diseases caused by in itser tone and abuse, are radically and promptly core it by the use of Mack's Magnetic Medicine, which is for sale by all responsible drogsists. See activitiement in another column.

Week Langs and How to Mare Phild Strong.—Breathe with the mouth closed, have access at all times to pure air, exercise moder-

access at all times to pure air, exercise modernately, eat nourishing but sample food, and take arely, ear nourisning but sample tool, and take that best of all cough remedies. Hagward's Pectoral Balsam, it specdify cures all throat and lung trembles of adults or children. Price 25 cents per bottle.

WHEN DOCTORS DISAGREE, WHO SHALL DESIRED.

WHEN DOCTORS DISAGREE, WHO SHALL DECIDE? - Nothing is more variable than the different opinions of medical men; but when they fail to agree, or perform a cure in a chroma disease, the patients often decide for themselves, as I take Burdock Biood Bitters, and speedily secover. It is the grand key to health that unlocks all the secretions, and liberates the slave from the captivity of disease.

Hagyard's Yellow Olf, will be found invaluable for all purposes of a family medicine. Immediate relief will follow its use. It relieves pain, cures chilblains, frost bites, scalds, burns, corns, rheumatism, neuralgia, etc. For internal use it is none the less wonderful. One or two dozes frequently cure sore throat. It will enre croup in a few minutes. A few bottleyhas

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to mall free to any address.

Mucht's Mugnette Medicine is sold by Druggists at 50 cts, per box, or 12 for \$5, or will be malled free of postage, on receipt of the money, by addressing MACK'S MAGNETIC MEDICINE CO.,

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nd a thousand other diseases that owe their origin to a disordered state of the Stomach and Bowels, and inaction of the Digistive Organs, when the use of

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will give immediate relief, and in a short time effect a permanent cure. After constipation follows Biliousness, Dyspepsia, Indigestion, Diseases of the Kidneys, Torpid Liver, Rheuma• tism, Dizziness, Sick Headache, Loss of Appetite, Jundice, Apoplexy, Palpitations, Eruptions and Skin Diseases, etc., all of which these Bitters will speedly cure by removing the crass. Recepture Stonace, Howels, and Digestive Organs in good working order and perfect to alth will be the result. Landies and others object to SICK HEADACHE will find r lief and permanent cure by the use of these botters. Being tonic and mildly purgative they PURIFY THE BLOOD by expelling all Morbid Secretions.

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Fill be paid for a case they will not cure of help, or for anything impure or injurious found in them.

sk your druggist for Hop Bitters and treem before you sleep. Take no Other

I Clan absolute and are significant for Drunk thess, use of optim, tobacco and unit offer.

B SEND FOR CARCULAR. ore anid by disconlete atoms M. Y. A Toronte, atoms M.Y. A Toronte,

SUGGESTIONS FROM MAINE.

It was given out fifteen or twenty years ago that the lumber producing capacity of the state of Maine was nearly exhausted, and the time was fixed, by those learned in forest lore, when the last mill would be shut down, the occupa tion of the Maine lumberman would be gone, and the prestige of that political division of the republic known as the Pine Tree State would linger over it only as a memory. In truth a part of this prophecy has come to pass, for a large proportion of the pine of Maine has been exhausted, and spruce is now the great depen dence of the manufacturers. Yet a good deal of pine is still cut in that state, and the supply is likely to be prolonged by a system of economy that is the genius of eastern industry, and is but little appreciated or practised in the West. Thus economy is habitual in all lumbering operations in Maine, and portains to the cutting of spruce, hemlock, and other timbers, as well as to pine. Its peculiarity is that the largest timber is cut first, while the smaller is left, and carefully preserved to grow for a future supply. In this way the timber lands of Maine have been repeatedly cut over, to a large extent, at least. Yet a stranger passing through these same torests would scarcely recognize the fact that they had supplied the eastern cities for years with millions of feet of lumber, for the growth of trees still thickly covers the land. It is only by observing the stumps that are here and there scattered amidst the standing timber that one would begin to realize that these silent and sombre woods once echoed with the ringing sound of the axe, the crash of falling trees, and the shouts of loud-voiced teamsters. So well have the economy of man and the forces of nature done their work, that the forests of Mame still maintain their primeval appearance, and promise to supply the sturdy woodsman with employment for an indefinite period to come. As a leading land owner recently put it to the writer, with a latitude of faith, "With the present system continuously practised, the timber supply in Maine will last to all otermty.'

The advantages derived from this system of forest preservation are worthy of consideration in localities where a more careless method is pursued. One advantage is that timber becomes a source of repeated revenue, as crop after crop is taken from it. First the larger growth of pine is assorted out; then the larger growth of spruce, perhaps; then the hemiock can be cut. In a few years this process can be repeated, the growth of the timber constantly creating a supply of larger trees. This development of supply is peculiarly conserved and stimulated by itself. In other words, none of the land being wholly denuded of forest, the humidity and wealth of the soil is preserved, and fires do not sweep over the country, as in Michigan and Wiscousin, destroying the timber, root, trunk and branch. It is indeed stated that a devastating fire is impossible in the state of Maine, and certain it is that we have no knowledge of such wide-sweeping conflagrations as have devoured the forest wealth of Canada, Michigan and Wisconsin. Here is a practical example of that kind of forest proservation that the advocates of forestry laws would see generally adopted and enforced.

In Maine the individuals directly associated with the lumber and timber interests are grouped in three classes :- The owners of the lands : the operators, or those who get out and sell the logs, and the manufacturers. Of course these classes often intermingle their interests. The land owners, however, form the most distinct class, and are the autocrats of the situation, as the landlords usually are. They are men of cupital, and are a long-headed community. They are the possessors of the foundation of the number interest, and are content to bide their time. They value their lands for the timber they will produce, and intend to make the most of .t, as the system which they pursue, already indicated, abundantly shows. They found out, years since, that the farmer does not seek a actioniest on their timber tract, but profers mstead, to emigrate to the West. The soil. though rich, is not abundant, a large portion of the surface being occupied by rocks. It is thought too, and probably with truth, that the prohibition legislation of Maine has acted as a tory reflection, in fact, after the cost of product. The men who are at work scarcely realize the from the same port.

deterrent to many foreign emigrants who would otherwise settle in the state. Certain it is that the hardy Scandinavians or Germans could make themselves comfortable homes in the Pine Tree State as quickly as anywhere else, and secure the benefits of nearness to profitable markets, as well as greater nearness to the Fatherland. A heavy land owner of Bangor, who was himself a temperance man, and not opposed to anti-liquor legislation, admitted to the writer that he had no doubt but that the "Maine law had prevented many foreigners from settling in that state. He even said that, under the circumstances, he never expected to see the forest lands of Maine cleared and zettled. for this projudice against the sumptuary law of the state had got abroad, and it would be nearly impossible to destroy it; and the rugged lands of Maine must be settled by foreigners if at all. No doubt this fact of the unmarketableness of the wild lands of Maine has prompted the owners of it to make the most possible of its timber resources.

The general practice is for the owners of the land to sell permits to the operators to lumber on their property. It is usually owned by townships, and the boundary lines of these local divisions mark the disposal of limits. The choice of townships, both as to ownership and the granting of permits, is of course determined by their nearness to streams or lakes suitable for getting logs to the mills. The Maine lumberman is quite particular about this, and looks with disfavor upon lands that a Michigan or Wisconsin operator would think quite accessible -by means of a logging railroad if by no other. Some of the remoter sections in the northern part of Maine are regarded as of little value by both owners and operators, and they do not even make an effort to stretch their imaginations to the time when the demand for lumber and the building of railroads will make these far away districts available. It would seem that here the "Downeaster" is less sagacious than his Western compeer; for the latter is already ranging the mountains of Montana for timber prospects, or hunting pine half way from Lake Superior to Hudson Bay.

In selling permits to operators to cut timber it would seem at first blush as if they conforred upon the purchaser an unlimited privilege to cut and slash according to his own free will, to the most reckless destruction of timber, a result directly opposed to the preserving policy that has been heretoforo indicated. But here profit steps in as a conservative element. The opera tors, in order to realize as much as possible on an operation, must cut all the largest timber, discarding the smaller growth. Though the perimit grants them the privilege of cutting as much as they wish within certain specified boundaries, it does not require them to cut more than they desire; in fact, there is no amount stipulated. Economy, then, dictates that the operation shall be a profitable one, and to secure this result the larger trees only are selected, while the smaller ones are left to grow. This system causes a constant competition to secure eligible locations for logging, and deters men from going back into the remoter districts, as they would be more apt to do than if the operators owned the land. Spruce stumpage near streams, or where two logging streams join, sells at \$1 and \$4.50 per thousand, while that which is farther away from the water will bring but \$2.50, more or less.

The mill men of Maine have got into the habit of competing with each other so sharply m the purchase of their log stock that they have narrowed the margins of their business down to a mere thread of selvage, and this mainly de pends on the ups and downs of freight rates, This limited margin is said to be a folly on the part of the manufacturers; for if they would combine together for a regulation of prices they could secure them as well as not. Probably the unil men themselves would tel. a different story. It is said that often, late in the season, when freight rates become so high as to sweep away all their margins, the manufacturers let their cargoes go to sea without insurance, alloging as an excuse that the margins were all gone anyway, and if the lumber goes to the bottom, or up in smoke, they will have saved their insurauce money in either event, a not very consolation has been annihilated, which might have danger, they are so carried away by the excitebeen saved by insurance.

The hemlock of Maine is one of the principal sources of timber wealth in that state. There is a belt of this kind of timber, forty miles in width, and running entirely across the state, from New Brunswick to New Hampshire. The principal profit from homlock is derived from the bark, which is worth at the tanneries \$6.50 a cord. The heaviost of these latter are situated along the European, & North American railway, which, in the eastern part of the state, traverses the hemlock belt. They are located with especial reference to the bark supply, and will exist as long, and no longer, as that supply lasts. Since the building of the European & North American Railway, and the rising of the tanning industry along the line, there has been a great scramble for hemlock lands, the leather companies securing all that was possible. At first it was thought that hemlock was only valuable for its bark, but Ithe constantly increasing consumption of lumber has given value to hemlock timber, also, though it is not enormous. For several year- after the bark industry arose, the stumpage of hemlock sold for \$1.25, the bark being worth \$1. while twentyfive cents was skimped out of the log. Latterly that figure has been considerably raised, and the prospect is that the value of hemlock will continue to increase.

Of late years a special feature of the lumber industry has aprung up in Maine, which consists of sawing second growth timber into box boards. This manufacture is mostly carried on in the winter season, by small mills, when the large ones are shut down. The demand for box boards is very brisk from the manufacturing towns in Massachusetts, Rhode Island and Connecticut, and the narrow stuff which is sawed out of small, second growth timber, is sufficient for the purpose, and at the same time can be afforded at a reasonable figure. This special demand has stimulated a special effort to supply it, and the sawing of box boards has become quite distinct from the general lumber manufacture. The logs are sawed up without being squared or slabbed, and the lumber brings in Boston from \$14 to \$16 per thousand. -Northwestern Lumberman.

A LUMBERMAN'S LIFE.

The Philadelphia Times says :- The post of danger in the duties of a lumberman is on the jams, and there the most skilful men are sent. Pitfalls will open in the midst of a solid mass of timber, and then close in a moment, after having dragged a man down beyond all help; a log will move a few inches slowly and unnoticed. and then with a movement like an arrow strike a man, crushing the life out of him in an instant, On overy side dangers are lurking, and he is fortunate that passes a spring without injury. There is something attractive in the looks of a log jam, and if the fascination that danger has were taken from it, still he would rather work there than on the shore. The long, narrow sea of white timber, cracking and writhing with the current, the water roaring and foaming as it escapes from its prison under the logs, and the logs themselves moulded into fantastic shapes by the terrible pressure behind them, all have an attraction for men who are impressed by strength or pictulesqueness.

Floods are made by large floating dams, and will raise the water several feet, lifting the jam up into the air as if it were a toy boat. If a specially large flood is needed, two and some times three are used at a time, the flood gates of the lower dam being opened just as the water from the dam above reaches it. In this way an immense "splash" is obtained that only the most refractory jams can successfully combat.

There are few grander sights to be seen any where than the moving of a large log jain. The grand strength with which they move, tearing out the largest trees and forcing everything before them, and the serce motion of the logs, like the crazy shuttles of some giant machine, and the perfection of force compel enthusiasm from the most phlegmatic spectator. The wild hurrans of the men or the logs add to the excitement, and the observer is quite sure to find himself running along by the side of the moving mass cheering as if he had won a battle.

ment, and they may be seen lumping from one log to another and cheering as though perfectly safe on solid ground, instead of a dangerous sea of moving logs that are continually rising and falling and dodging this way and that, driven by the flood of water furnished by the floating dams. The skill shown by experienced flusters in riding logs is wonderful, and it seems impossible for human dexterity to reach such perfection. A jam will sometimes form where precipitous, rocks make it impossible for the men to escape on either side, and they must ride the logs for several rods. In such places the water is always swift, sometimes forming rapids, and watching the logs tumbling, jumping and rolling along with a deafening roar, one wonders how men can live among them for an instant. Behind the jam breakers come the sackers with their teams, drawing the logs that jams have forced far out on the banks and rolling in those on the shore. "Bringing up the rear," is the technical term given this work by the lumbermen and it is no more desirable than occupying the same position in the army. It is terribly cold work too, wading in the snow water, ice freezing on the levers and on the clothing wherever exposed Ito the air, and makes the spectators shiver to watch thom. But the hardy lumbermen do not mind it. They expect it, and their strength is equal to the demand.

At mealtime they all come with prodigious appetites for their rations, that are as hot as can be caten. Hot biscuits, potatous, eggs, meat, tea, coffee and everything else, solid and liquid, are smoking like the steam from a locomotive, while generous draughts from the cup that inebriates add their fuel to the general fire. No cold victuals are current in log-floating time, all the chill required is found in the ice water, and something has to be taken to counteract its influences.

The nights are spent in camps, where the roaring fires burn all night, partially to dry the wet clothes that must be put on in the morning. Coming into the room where the clothes are hung, a great cloud of steam is seen that rises to the ceiling, where it condenses, and either falls down in drops or evaporates on the warm boards, and the clothes are all smoking as if engaged in a contest. When the river is reached the life changes. There are few jams to break, less wading, and more riding in boats, and all the work is easier and less dangerous. If the logs stop on a rock that is out in the middle of a river, a boatman carries some men there who may roll them off and get into the boat again without danger and without getting wet. There are logs along the shore to be rolled in, but the water is not as swift as in the runs, and in the deep water a man can stand with comparative safety. Everything is easier, and the day the myer is reached is almost a holiday among the lumbermen.

Talk About Timber.

The Kingston Whig says a gentleman, whose knowledge of the timber trade is well known, stated that the timber trade this year had been better than it had been for some years. He did not think that unchartered vessels lost anything, as they secured fully as high rates as those that had been engaged last winter. The freights paid fairly well, but nothing more than vessels ought to earn; in fact if the profits were less no person could afford to build vessels or keep them in repair. This winter, he thought it would be difficult to obtain charters, as the owners of timber were likely to hold off until the spring. This was owing to the fact that last summer rates fell to lower figures than those for which vessels had been chartered. He thought this holding on would be a wrong policy, as when there was a demand for vessels the captains would be more independent. There will really be a larger amount of timber for moving next year than this. The method of chartering will be the very opposite to that which was adopted last winter. If there be good rates for grain, vessels will prefer to carry it. Grain freights this year were, however, far below the average, and not nearly so good as the year before. A 6c. freight from Toledo and a return cargo of iron ore to Ashtabula or Cleveland would be better than a \$70 freight on timber

Chips.

THE number of rafts that have passed through the draw of the bridge over the Mississippi, at Davemport, Iowa, the present season is 947.

A POPLAR tree in Etowah county, Alabama, measured twenty five feet in circumference. One in Barren county, Ky., measured thirty three feet.

Majon A. B. Watson, of Grand Rapids, has recently bought pine lands in Louisians which is estimated to cut 350,000,000 'ee'. He has un loaded all his pine lands in Michigan, the Eagle

THERE are 150,000,000 feet of Hogs in a solid jam above Croton piers, Muskegon River, Newaygo county, Mich. The drive is hung up for the season. It is thought that the logs below the Newaygo will last the mills at Muskegon till they are thut down.

THE Privy Council has just given a decision sustaining the "Act respecting uniform conditions in policies of fire insurance," passed by the Ontario Legislature as constitutional, and declaring that it does not interiere with the matter of "trade and commerce," as allotted to the Dominion Legislature.

THE black walnut timber of Arkansas will prove a mine of wealth. In fact there is not a more profitable crop that can be raised on southern soil than black walnut, and it is not wide of the mark to say that the growing of this valuable timber will be one of the greatest industries on the southwestern prairies at no dis-

THE cold weather has compelled the Chaudiere mills to close down for the sesson. The cut this year, though not as large as anticipated, was an extensive one. The demand throughout the season for sawn lumber has been good, and prices have not been as high since 1872. Comparatively speaking very_little stock will be wintered here.

IT is said that operations will shortly be commenced with a view to rendering the Lievere River navigable between Puckingham and High Falls, to the great advantage of the lumbermen and phosphate miners in that district. This is a much better way of spending the surplus than in making paltry reductions which nobody would feel

A LARGE pine tree on the site of old Fort Herkimer, New York, which had escaped the axe of the woodman because it had given shelter to General Washington and party, while dining beneath its boughs, when on his way to visit Fort Stanwix, was blow down in a gale a short time since. It was over four feet in diameter at the butt and over one hundred and fifty feet in height.

In a report on the forests of British Colum bia, Prof. Dawson, of the Geological Survey of Canada, dwells upon the importance of the timber trade of the Dominion. The Douglas fir, or Oregon pine, is the most valuable tree he refers to. It is often more than eight feet in diameter, and from 200 to 300 feet high, forming dense forests, The Western hemlock and red cedar are next in importance, and grow to a great

THE Nashville American learns from a re sponsible lumberman that there is now on hand in that city 30,000,000 feet of sawed lumber, which could be delivered in a day, if that were necessary. Besides this amount, Nashville lumber dealers own 10,000,000 feet of lumber on the river and along the various railroads leading into the city, making a grand total of 40,000,000 feet of lumber now in the market. A large number of agents from the northwest are now in Tennessee seeking timbered lands.

THE Lumberman's Gazette says that the magnitude of the cedar business in Alpena county may be somewhat imagined by the fact that during the present sesson Bolton & McRae, who are the largest dealers in that kind of timber, have shipped 350,000 railroad ties, and 250,000 fence post, and besides the above. there has been shipped large quantities of ties rowe & Donnelly, Morse & Dewey, Folkerts & RESPECT. The Grey Hairs of old sge demand multiple from the first the sum total of which would no doubt reach 600,000 ties and 500,000 to sand 500, and posts by Bewick, Comstock & Co., John-

THE EXPORT LUMBER TRADE.

The Montreal Gazette say the shipments of deals from that port to the United Kingdom during the season of 1881 just closed consisted of 38 cargoes, containing 21,838,287 feet, against 19,781,885 feet in 1880, showing an increase of 2,050,402 feet. The shipments of deals from from Pierroville during the past season were five cargoes, aggregating 2,697,562 feet. The total shipmonts of deals and lumber from Montrea to South America and the United Kingdom for the past sesson famount to 34,704,228 feet, against 28,250,919 feet for the season of 1880 which shows an increase of 0,453,309 feet. The following is a detailed statement of deal ship ments from Montreal and Pierreville to the United Kingdom and the Continent for 1881, as furnished by Messrs. Anderson, McKenzie, & Co. :--PROM MONTREAL.

Name of Vessel.	No feet.
Name of Vessel.	626,764
Carla	420,391
Haab	730,924
Lord Palmerston	514,085
Walland	619,952
Mallard	252 012
Lindola	91A OH7
St. Kilda	870 732
Taka Qinana	211,800
Lake Simcoe Stateminster Stang	970.030
Falde.	381,892
Adele	. 331,502
Amim	010 133
Amm	. 378,730
Aegor Memlo	836,715
Memilo	65,000
Lake Nepigon	05,000
Port Royal	227,727
Prince Llewelyn	242,027
Elizabeth Mary	235,042
Hilda	003,300
Amal	394,671
Beaconsfeig	695,580
Xenia	572,220
Texac	277,100
Mississippi	193,741
Texas. Fido	140,561
Fido	155,127
Dronning Louise	427,130
Montreal	39,000
Virgo	426,360
Glendonwyn	140,050
Wayfarer	601.920
Roycroft.	518,760
Ocean King	196.020
Laura Emily Garden Island	607,660
Garden Island	762,300
Nebo	638,580
Dampier	. 326,700
Total	21,839,237
FROM PIERREVILLE.	
General Birch	745 415
General Birch .	470 355
Framines	889.405
Pranincs	033,193 690 167
Cap	020,101

Total 2,697,562 The total shipments of deals and lumber from Montreal were as follows in the years 1881. 1880.

To U. K. and Continent... 21,838,287 To South America 12,865,941

Freble Ladies.—Those languid, tiresome sensations, causing you to be scarcely able to be on your feet; that constant drain that is taking from your system all its elasticity; driving the bloom from your cheeks, that continual strain upon your vital forces, rendering you irritable and fretful, can easily be romoved by the use of that marvelous remedy, Hop Bitters. Irregularities and obstructions of your system are relieved at once, while the special cause of periodical pain is pormanently removed. Will you heed this?—Cincinnate Saturday Night day Night

day Night

THE SADDEST OF SAD SIGHTS—the grey hand of age being brought with sorrow to the grave is now, we are glad to think, becoming rarer every year as the use of Cingalese Hair Restorer becomes more general. By its use the scanty locks of age once more resume their former color, and the hair becomes thick and luxuriant as ever; with its aid we can now defy the change of years, resting assured that no Grey Hair at any rate will come to saiden us. 50 cents per bottle.

HONESTY. It is commonly said that you can

HONESTY. It is commonly said that you can not make an honest man believe that white is black and vice versa, but those who have grey harr by using the "CINGALESE HAIR RENEWER," will find that this apparent difficulty is carry overcome. 50 cents per bottle.

HAGYARE'S VERSAN OF In any the hard of

HAGYARD'S YELLOW OIL is at the head of the list for all purposes of a family medicine. It is used with unprecedented success, both internally and externally It cures sure throat burns, scalds, frost bites, relieves, and often cures asthma.

Petitions to Parliament should be written in a bold, round, open hand, for which purpose Esterbrook's blunt and broad pointed pens are the heat. Address the Esterbrook Steel Pen Co., 26 John St, New York, for samples.

D. S. BRIGGS.

9 TORONTO STREET, TORONTO. WHOLEHALR DRALER IS

Clear, Pickings, Common and Hardwood Lumber, Lath, Shingler, &c.

BILL STUFF CUT TO ORDER.

J. K. POST & CO.

LUMBER MERCHANTS

And Shipping Agents.

OSWEGO, N. Y

J. & F. N. TENNANT

Lumber, Lath & Shingles,

Office, Union Loan Building,

Toronto Street, Toronto.

S. S. MUTTON & Co., Wholesale Lumber Dealers TORONTO.

We have for Sale a large quantity of PINE, OAK, WHITEWOOD, ASH, CHESTNUT, CHERRY, B. 2 TERNUT BASSWOOD, &c. LOTES —A SET OF TUB MACHINERY FOR SALE, CHEAP—OR EXCHANGE FOR LUMBER. 1916

A. L. UNDERWOOD

WHOLESALE DEALER IN

White Pine. Basswood & Hardwood.

82 King Street East,

TORONTO, ONT.

Union Street, - - - Carleton, Warerooms, Water Street,

ST. JOHN, N. B.

(Late of Harris & Allen)

MANUFACTURERS OF ALL KINDS OF

Steam Engines

MILL MACHINERY

Ships Windlasses, Iron Capstans

and Ships CASTINGS or all kinds.

Ships Cambooses & Cabin Stoves COOKING AND HEATING

TOVES,

Shop, Office and Parlor Stoves, and Franklins.

Agricultural Implements.

BRASS CASTINGS.

Tin, Sheet Iron and Copper Ware for SHIP and HOUSE use.

PORTLAND FOUNDRY.

JOSEPH MOAFEE,

Warehouse, Mair St. St. John, N.B.

AGRICULTURAL IMPLEMENTS.

Cooking, Ship, Parlor & Office Stoves

Ship Windlasses Capstans, and Ship Castings of all kinds. (MADE TO ORDER.)

Power Capstans, Paten! Ship Pumps Wich Copper Chambers.

Lead Souppers & Water Closets & all goods in my line or Ships' use.

Work done to Order with Quick Despatch.

Commission Lumber Dealers,

FORWARDERS.

Shipping&General Agents

PORT HOPE.

PRACTICA

Founders, Machinists, And Millwrights.

Manufacturers of Marine and Horizontal and Portable

Engines, Boilers

Grain Elevators & Steam Hoists,

Saw and Flour Mill Machinery.

With Latest Improvements A SPECIALTY

The ABEL EDWARDS CENTENNIAL TURBINE WATER WHEEL;

RODEBAUGH'S SAW FRAME, MILL DOGS and SAW GUIDF3.

WATER WORKS, THE LATEST AND MOST IMPROVED, MADE TO ORDER.

LIGHT and HRAVY BRASS and IRON

CASTINGS. Plans and Specifications on application.

The Walkerville Foundry

MACHINE WORKS.

Walkerville, Ont., June 1881.

Warket Reports.

MONTREAL.

From Our Own Correspondent.

DEC. 8th.-As usual at this season of the year the lumber trade has been very quiet, and confined to a small local demand. After the New Year, Americans generally come over to try and pick up some car lots, after which we hope to have a little more to say. Stocks of clear lumber in the city are small, but of the common kinds there is abundance to meet all the requirements. People in the trade are keeping down their stocks as much as possible till after stock taking. They prefer doing this and taking the chance of getting car lets as they are required. The extra winter freights by rail, which amount to about forty per cent, on the North Shore Railway, have prevented some pretty large contracts from being made. Prices generally are firm, but as yet we cannot make any change on our late list, which we again re-

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CORDWOOD. - The market is firm and likely to remain so, as stocks, both of coal and wood, are less this year than usual, and dealers seem confident of higher prices soon, unless the North Shore Railway brings in a very extra supply. All wood has been removed from the wharves, and supplies are now drawn from the railway depot. The weather has been so mild of late that the demand has been very quiet, but tonight the thermometer is nearly at zero, and there is every appearance of a cold spell, so that more activity is looked for from this out. Our quotations are now from the railway dopot, ex cartago .-

Long Maple	SG 50
Short "	6 00
Long Birch	0.00
Short "	5.50
Long Beech	6 60
Short "	5 00
Long Tamarack	4 50
Short "	4 40

TORONTO.

From Our Own Correspondent.

Dic. Sth. -Thelast cargo of lumber for American markets, for the present season, has left this place, and lumber matters have assured a quiet reject. A considerable quantity is still coming forward for the local market, and shippers can now obtain all the cars they require; but the trouble now is that there is not the lumber on hand at the mills to keep up the present supply for any considerable length of time, and the fine open weather of the past few weeks has enabled building operations to be prosecuted with as much vigor as at any time during the season. The clang of the bricklayer's trowel is still heard on every hand, and there is but little diminution in the number of buildings being erected observable. In the early part of Derembr of last year teams were drawing lumber over our lky upon the ice, and all building operations were at a complete standstill, whereas all the yards now seem to have all the trade they can do, and more yards are rising into existence A new firm has just opened up on the western confines of the city, immediately adjoining the municipality of Brockton. Their shingle reads. "Baumhard & Marshall, Builders and Lumber Dealers," and their reputation as business men -tanda well.

Then the well known firm of John Oliver & Co. has leased the large yard formerly kept by J R. Sillerman. Their i. antion is to stock this yard with pine, and also use it as a warehousing premiers, so that any who wish to avail themselves of the privilege of doing so, can have their lumber piled off the cars and obtain a warehouse receipt for the same. These premises are especially adapted for this purpose, as cars from nearly all the railways can be run into the yard and unloaded promptly. This will be a been for detention of the cars before they have been able to dispose of their lumber.

The supply of dimension stuff for this market is still extremely meagre, what little there is beingfresh from the saw, and so few mills now being in operation, bills of any considerable quantity cannot be furnished at all promptly. The demand for shingles at present is quite limited, as a large number of the building new being creeted have flat roofs, covered with felt and gravel, and the better class of houses are slated. Lath is scarce and will likely continue so for some time to come. The only kind of lumber that is at all like a drug on the market is the coarse grades of boards, but should the winter continue to be a mild one, there will not be any overstock of this or any other kind of lumber.

At this period of the year 1880 mill men had large portion of their logs banked, and should they got favorable weather for logging purposes immediately, the season must necessarily be a short one; so that the outlook for good prices for any lumber that may be placed on the market next year is a good one, and I think that when the retailer comes to foot up his profit and loss sheet for the present season, he will find it on the whole satisfactory, as the number of bad debts made in prosperous seasons like the present is not near so large as in years of depression.

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OTTAWA.

From Our Own Correspondent.

Lumber yards in this vicinity, and especially at, the Chaudiere, are daily being depleted on a small but noticeable scale, for, notwithstanding that navigation is closed, large quantities of lumber, for the fulfillmen of contracts entered into early in the season are being forwarded by rail to the States, the objective point principally being Boston. Shipping facilities are steadily increasing, consequently proving a great boon to the lumberman, affording them a better mean-

EXPORTING THEIR PRODUCTS.

A few days ago the St. Lawrence & Ottawa Railway made connection with the Interprovincial Railway bridge at the Chaudiere. This will prove of great value to the general trade, and especially for the shipment of lumber. The proposed through route from Montreal to Chicago, touching at this point, is also another desirable move. The connections will be made shortly, negotiations for which are at present proceeding. The exact cut in this vicinity can as yet be but partially ascertained, but sufficient figures can be gathered to give

AN APPROXIMATE HOEA.

Stock taking is now progressing in many yards, and until the work is completed the total result cannot be known. So far as learned the total cut will be about 225,000,000 feet, considerably less than the cut for the previous wasen. The difference is accounted for by the scarcity of logs. If circumstances had proved anyway more favorable, there is no doubt but that operations | tively small dimensions. would be carried on to

THEIR PLLEST EXTENT.

ket for sale, and in many cases incur demurrage amounted to \$2,069,159, being \$87,602 more than during the same period last year. The quantity hipped was considerably less than last year, but the increase in value is due to the advanced rates obtained. Demand for shanty hands still keeps good, while the supply is nothing like what is desired.

WAGEN

remain about the same, and an increase cannot well be expected, as all the concerns are now pretty well supplied. Operations on the limits this winter are being carried on as extensively as in past seasons, if not more so; and it is expected that all next season will be, -in the history of lumbering operations in the Ottawa Valley, - a repetition of the great boom of 1869-

THE ELECTRIC LIGHT

is gradually coming into more extensive use by mill owners hereabouts. Eddy's large system of lights work admirably; as also does that of Cay t. Young. Its adoption by the remainder of the lumbermen is only a question of time. Messrs, Parley & Pattee intend to use it both in their large mill and on their shipping docks next season. The contract, it is said, has already been entered into, MISCELLANEOUS,

The Quebec Lumber Co, has given notice of an application to Parliament for an Act of incorporation.

Messrs. McLaughlin Bros.' new steam mill at Amprior has been tested and works to a charm. 200,000 feet were cut from 6 o'clock a. m to 5 o'clock p.m. on the day of trial.

LONDON, ONT.

From Our Own Correspondent.

DEC. 10. If it were not that Christmas is made evident by the display of prize beef and highly decorated Christmas birds, it would be almost possible to imagine ourselves in the midst of spring in this city. The season has been remarkably open, except a day now and again when we had a taste of winter, but the snow falls have been few and light.

The opinion expressed in my last letter that lumber would be higher in this market ero this letter appeared has not been verified. There seems to have been a back action at work, or the open season has effected the demand, for though it has not fallen off to any marked extent, prices are inclined downwards, and I believe some merchants have been selling at lower figures for eash, but booked accounts are charged full rates. The general tendency, however, at this date of writing, is easier, and there may be a lower list to record in my next, unless some thing not now in view turns up to stimulate the

The lumber contract for the new block of shote-ale stores has not yet been placed, to my knowledge. The foot lights of the Holman Opera House have been finally extinguished, and the work of demolition will go on at once.

There continue to be complaints of want of roper car supply on the G.W.R. This matter should be remedied.

OPOTATIONS Will cull bear Is and scantling

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ST. JOHN, Y B.

DEC. 7th. Since our last report the river has frozen over, closing the internal navigation for the season, which narrows down our lumber operations in the way of shipments to compara-

DENIS

Our only source of deal supply is now from as mostly, all that can be cut finds ready sale, the few city mills which have logs to cut, and as orders being numerous and rates good. The three are stocked only to a very limited extent, exports of lumber from this port to the United the termination of the sesson's manufacture of and unloaded promptly. This will be a been expects of lumber from this port to the United the termination of the session's manufacture of Common. 240 00.45 00 to many persons who bring lumber to this mars. States from January 1st to November 38th deals is not distant. Our largest shipper, Mr. Culls. 20012 50

A. Gibson, is reported to have recently bought up all the deals for sale in this market (some 7,000,000 sup. ft.) at \$11 per M., so that the entire stock here is now in the hands of shippers.

PREIGHTS.

The freight market is very quiet. Very little connage has been offering of late, and rates have improved. The following tharters are among the latest transactions rope: .-Rialto, 1,530 tons, at 58s. 9d., and Maydat 278 tons, at 60s., both for Liverpool; Abram Young, 756, for Cuba, at 21c., for sugar box shooks.

SHIPMENTS.

The shipments of deals and other sawn lumber ara as follows:—

For	Europe	7,673,000 Su	p. feet
	United States		• 44
**	West Indies	117,000	**
	South America		••
	SHIPPING.		

The following is a list of the vessels in port. beir tonnago and destinations :-

Bertie Biglow, 1,142, Liverpool. Andrew Johnson, 2,005, Liverpool. Annie Stafford, 1,200, London.

Abram Young, 750, Cuba.

Atlantic, 412, Liverpool, Fleetwood or Barrow Thalassa, 228,

Frank Stafford, 1,169, Liverpool. Emily Lowther, 762, Fleetwood, Rialto, 1,530, Liverpool.

Arbela, —, London. Henry, 1,095, Liverpool. Magdala, 278, Liverpool,

Etta Stowart, 787, discharging.

ALBANY.

DEC, 7th .- Quotations at the yards are as follows:-

Pine, clear, P M		೫೫	COMPACE.	3 00
Pine, fourths		48	00(a52	· Ot
Pine, selects			00ee53	3 00
Pine, good box I'me, 10-m. plank, each		19	006/31	
Pine, 10-in, plank, each		UU	35mOC	
Pine, 10-In. plank, culls	. cacl	00	196000	
Pine boards, 10-In		26	00(423	
Pine, 10-in, boards, cull	8		1Sec00	
Pine, 10-in, boards, 10 f	다. 광기		000030	
Pine, 12-in. boards, 16 ft		23	100130) (N
Pine, 12-in. boards, 16 ft Pine, 12-in. boards, 13 ft	L	26	000023	00
Pine, 1] In. siding, select		33	00(et 4U	00
Pine, H-in. siding, com	11011	15	000015	00
Pine, 1-in, siding, select		40	00/442	: 00
Pine, inch siding, comm	1011	10	00gt19	00
Spruce, boards, cach		00	000000	16
Spruce, boards, cach. Spruce, plank, 11-in., ca	ich	00	000100	
Spruce, plank, 2-in., eac	:h	00	004400	
Spruce, wall strips, each	1	00	((\	12
Hemlock, boards, each			000100	13
Hemlock, joist, 4x6, eac			001100	
Hemlock, joist, 21x4, ca	ch	00	000000	13
Hemlock, wall string, 23	4. cach	00	00/4/00	10
Ash, good, & M		35	00.440	100
Ash, second quality, 37 !	1	23	00(+130)	00
Cherry, good, W M		CO	Ohie 70	00
Cherry, common. 2 M.		25	00ve35	00
Oak, good, & M Oak, second quality, & !		33	Ohe43	00
Oak, second quality, 2 !	1	20	00//25	00
Harawood, 3) M		22	Other 25	60
Hickory, P.M		:33	000140	00
Maple, Canada, & M	****	26	00:430	00
Maple, American, per M		25	00/428	00
Chestnut, & M		35	mirso	(11)
Shingles, shaved, pine, 4	M	0	DOGE G	110
" 2nd quality	 .		00% 4	
" extra, sawed,	ទៅព0	0	00ue 4	00
" char. "		0	004 3	30
" codar, mixed.		0	00ua 3	30
Codar, XXX		0	0020 4	00
" hemlock			00se 2	
Lath, hemlock, 23 M	•••••	0	Dave 1	62
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		Ó	0048 2	00
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OSWEGO, N.Y.

DEC. 5th .- Market for dry uppers and pickings is very fair. The demand is good for all kinds of lumber fit for sale. The assortment is very fair. The receipts are falling off, and the season may be considered about closed.

Receipts for 1881......167,000,000 " 1880.....182,000,000 The following are the quotations:-

842	00-745	00
32	00//35	60
20	00/425	œ
14	00.416	00
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TONAWANDA.

CARGO LOTS-SAGINAW INSPECTION.

CHICAGO.

DEC. 7th.-The following are the CARGO QUOTATIONS.

Joist and scantling, green, ordinary lengths 81	12	00@12	25
Joist and scantling, green, 20 feet and over 1	4	00(410	25
Mill run, choice green	19	00:(123	00
Mill run, medium, green	ß	00ut19	25
Mill run, common, "	X)	00xt14	œ
Shingles, standard	2	7500 2	80
Shingles, extra A	2	80ce 2	90
latn	:	12460 2	25

BUFFALO.

vo quoto cargo) lots:—			
Uppers	• • • • • • • • • • • • • •	\$10	00@45	00
Common		17	50(120	00
Culls	• • • • • • • • • • • • • • • • • • •	11	60&12	60

THE ADVANTAGES OF MECHANICAL DRAWING.

To the Editor of the Canada Lumberman.

SIR, Much that is taught in our schools and colleges is primarily with a view to mental training or mental discipline. Such is the case with a great part of an ordinary mathematical course or a course in the ancient classics. It is generally admitted that such studies have little or no practical bearing on any of the ordinary pursuits of life. Drawing of any kind, but particularly mechanical drawing, if viewed simply as a means of mental discipline should rank high. It incites to the habit of correct observation, gives exercise and strength to the powers of reason and reflection, matures the judgment, cultivates the taste, trains the eye, and makes the hand dexterous. A turn at good muscular exercise is about all that is wanting for the cultivation of the whole man. This is a good showing on the score of general training. But besides this by far its greatest value lies in the practical advantages it offers. It is a prime necessity in nearly all of the departments of art and manufacture. The economical construction of our modern high class work requires a carefully designed prearranged plan, which is usually embodied in the form of a drawing generally made to a scale-shewing the thing as a whole with the several parts in their true position and proper relation; other drawings of portions and sectional views are also added as required. This is building up the thing on paper and has nearly all the advantages of genuine trial construction. The efficient draughtsmen then must understand cl. builder's art, and it follows, that to properly teach mechanical drawing is not alone to show how neat lines of geometric forms may be made on paper, but also to teach the principles of the science pertaining to some particular mechanical trade. And the workman, who learns, implants upon the basis of his already acquired manual skill a knowledge of the mechanical principles involved in the work he performs. Consequently ambitious, progressive young nen, who have a very natural desire to master the theory as well as the practice of their trade, take up this study and art, for it is really both; not always with a view of becoming expert draughtsmen and following it as a life pursuit, but for the purpose of becoming better masters of their own situation. They know then not only what they are doing but why they do it. If a new drawing is placed before them to work by, they feel an acquaintanceship with that sort of thing, they not only see it but they see through it. They can begin the work at once and begin right, while to many engaged in the trades an average mechanical drawing is about as puzzling as a mass of Egyptian hieroglyphics.

Every man's work should contribute to his pleasure. Life at its best is dull enough, but it must be dreadfully dull to the man who for fully two thirds of his working hours has no greater interest in what he does than the pittanco it gives him for daily support. Ho is under the curse of Adam to its full extent. I am awaie that the employment of many is of such a nature that there is nothing in it to interest them. Their work is one perpetual treadmillan endless routine soon learned and never to be forgotten.

This is all very well when the ability of the employee is just about equal to the situation, and he adds to it the grace of contentment He needs no lessons in drawing. Such I think are somewhat excussible if with the monotonous web of their daily work a little diversion is interlaid. Active minds in such positions chale and worry and soon leave their for others where MONTREAL

there is scope for manual skill and mental effort Such a man ther enjoys his labor. It is to him a subject of stelly, and of course a matter of intorest. He learns drawing to assist him in its prosecution, also for the pleasure of knowing the beautiful art.

A good knowledge of drawing is equal to a large amount of experience. Though experience is most always valuable yet it is often overestimated. Experience in doing work after clumsy old fashioned methods is a positive disadvantage, and experience even in some good methods often works a man into a rut and keeps hun there-Experience is valuable when used as part of our stock of information on which we draw and apply to the matter in hand as each particular caso may require.

The ability to do this-to turn things to account , to make the most of a given set of eircum stances, depends most largely upon study, and tho kind of study should be that which pertain to our own pursuit. Then with the knowledge of drawing we are enabled to readily ave tangible form to our ideas. We express them in a universal language. Mechanics of every nation can read, understand and work by them.

Such, Mr. Editor, are some of the advantages obtainable from a study and practice of this in teresting subject.

Yours, &c., W. H. TROUT.

The Australian Trade.

Messrs. Gemmell, Tuckett & Co. s monthly report, dated Melbourne, Sept. 27th, states that the amount of business carried through at auction has been far in excess of the average, but prices for some lines have receded.

AMERICAN LEMBER. - The shipment ex Haze was placed at auction, realizing for white pine shelving £13.5%; w. p. t. and g. ceiling, £11.2s. 6d.; clear pine, £18.7s. 6d. to £18 per M. super; the trade holding light stocks.



CANADIAN PACIFIC RAILWAY

Emory's Bar to Port Moody. NOTICE TO CONTRACTORS.

Tender for Work in British Columbia.

SEALED TENDERS will be received by the undersigned up to NOON on WEDNE-DAY, the 1st
day of FEBRUARY next, in a lump sum, for the
construction of that portion of the read between Port
Moody and the West-end of Contract 60, near Emory's
list, a distance of shout 5 miles.

Specifications, conditions of contract and forms of
tender may be obtained on application at the Chardian
Facific Railway Office, in New Westminister, and at
the Chief Engineer's Office at Ottawa, after let Janu
ary next, at which time plans suid profiles will be open
for inspection at the latter office.

This timely notice is given with a view to giving
Contractors an opportunity of visiting and examinanc
the grounds during the fin season and before the
winter acts in.

Mr. Marcus Smith, who is in charge at the office at
New Westminister, is instructed to also contractors
all the information in his power.

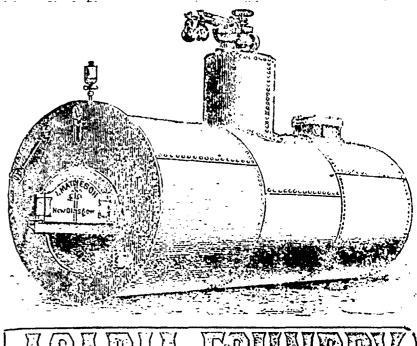
No tender will be entertained unless on one of the
printed forms, addressed to F, liraon, Eq. 3 cc., Dipt
of Railways and Canals, and marked "Tender for
C. P. R." SEALED TENDERS will be received by the under

Dept. of Railways and Canals, and Ottawa, Oct. 24th, 1881.

BELTING.

Chipman, Renaud & Co. MANUFACTURERS OF

LEATHER BELTING, FIRE ENGINE HOSE LACE LEATHER, &c. 124 & 126 Queen St. 125 lv



Drake Brothers' Box Mill,

Provost Street Extension, New Glasgow, Picton County, N. S.

SPRUCE, PINE # HEMLOCK SHINGLES

F. H. DRAKE.

N. H. DRAKE.

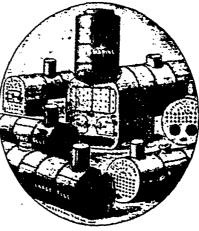
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LOCOMOTIVE BOILERS,

And SHEET IRON WORK.



Portable Bulers for Threshing Machines, Shingle Mills, etc., furnished on short notice. All Teches lessed by cold water pressure to 150 flot, to the square to hilbefore leaving the shop.

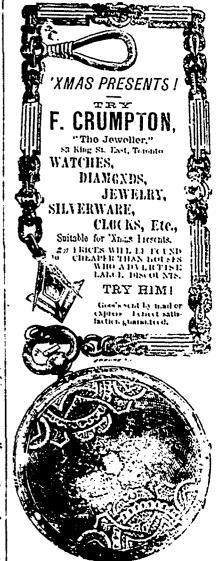
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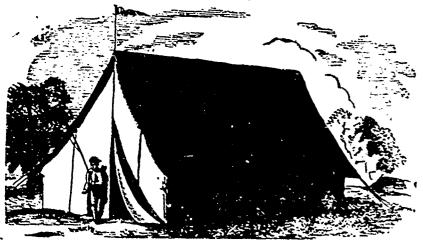
SPECIAL MACHINERY MADE TO ORDER

Latest Improved Spool and Bobbin Machinery. Every Variety of Heavy and Light Casting.

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manufacturors of Tents for Lumbermen, Sportsmen, Camp Meetings, Photographers, Lawn and military Encampments, with or without extra roofs, all sizes and styles, white or fancy striped, milide & proof or plain, Prices from \$5, upwards. Flags of all descriptions, (regulation sizes) made of the best of silk-finish bunting. CAMP BEERS (Bradley's Patent) the best bed ever invended; size when folded 2 x 6 in.; 3 feet long, weighing ouly it pounds, but strong enough to bear the weight of any man. Waterproof wagon and horse-covers, tarpaulins sheets, costs and leggings of every description made to order on the premises.

23 Special rates to Lumbermen. Send for catalogue and price list to

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Manufacturers of all Descriptions of

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NOTE THE PRICES.

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Wrought Iron Shanty Look Stoyes

The Best Article ever offered to the Trade.

I have much pleasure in drawing attention to my WROUGHT IRON COOKING STOVE, for Shanty, Hotel and Boarding House use. These Stoves are made of Heavy Sheet Iron, the top and lining of the fire-box being of Heavy Cast Metal and all the connecting parts of substantial Wrought Iron Work. The dimensions of these Stoves are as follows:-

SINGLE OVEN STOVE

Top surface contains six 10-inch holes, with ample room between, and one oven $10 \times 24 \times 26$.

DOUBLE OVEN STOVE

The Double Oven has a top surface containing twelve 10-inch pot holes, with two ovens, each 16 $\times 24 \times 26$. One fire-box of suitable size for area to be heated. Below will be found Testimonials from some of the leading Lumbermen, who have used my Wrought Iron Cook Stoves since I commenced manufacturing them. They are the names of gentlemen who are well known and reliable, and will carry more weight than any recommendation of my own could do.

The Best Stove I have ever Used.

ADAM HALL, Esq., Peterborough. Dear Sir,—I have used your Wrought from Cooking Stove in our lumbering operations since its introduction here, and have no hesitation in saying that I prefer it to any other. For durability, economy and efficiency, where a large number of men are employed, it is the best store I have ever used. You can, with confidence, offer it to hotels, boarding houseand lumbermen.

Yours truly, THOS. GEO. HAZLITT.

The Stove for Lumbermen. PETERBOROUGH, June 1st, 1830. ADAM HALL, Esq., Peterborough. My Dear Sir,—We have used your Wrought Iron Cooking Store and find it is very satisfactory for lumber operations, especially so on drives. We can recommend it highly.

Yours truly, IRWIN & BOYD,

Gives the Greatest Satisfaction.

PETERBOROCON, June 3rd, 1880.

A. Hall, Peterborough. Dear Sir,—I have had the Wrought Iron Cook Stove, purchased from you, in constant use ever since last fall, and it gives the greatest satisfaction in every respect. I can recommend them highly to any one who is in the lumber business.

Very truly yours, GEO. HILLIARD, M.P.

EVERY STOVE GUARANTEED

All the necessary TINWARE and CUTLERY for Shanties supplied at the Lowest Prices.

NATIONAL MANUFACTURING CO., ADAM HALL, Peterborough.

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GILBERT HART, Detroit,
President.

JAMES T. BARNARD, Hamilton,

SAMUEL BRIGGS, Hamilton, Superintendent.

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EMERY and CORUNDUM WHEELS

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Wire Strengthened



And Specially Adapted
For Saw Gumming

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PETERBOROUGH,
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DESERONTO,
Lumber Merchants.

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Northey's Steam Pump Works

BOILER FEED PUMPS. STEAM FIRE PUMPS, and WRECKING PUMPS.

AIR AND CIRCULATING PUMPS, PUMPS SPECIALLY ADAPTED for OIL PIPE LINES.

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DISSTON'S CELEBRATED MILL SAWS.

Steam Packing of all kinds, Rubber and Linon Hose, Slik Bolting Cloth, Emery Whoels, Lacing Leather (Page's Genuine), Lard, Scal, Cylinder, Spindle, West Virginia and Wool Oils. Our Stock includes Mill Supplies and Rubber Goods of all kinds. **EF* Quotations furnished for any part of Canada. **21

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Steam Engines, Steam Boilers, Hoisting Engines, Steam Pumps, CIRCULAR SAW MILIS, BARK MILIS, SHINGLE MILIS,

Ore Crushers, Mill Gearing, Shafting, Hangers and Pullies, Hand and Power Hoists for Warehouses, &c., &c.,

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"Water's" Perfect Steam Engine Governor, and "Herald & Sisco's" Centrifugal Pumps

The Crowning Triumph of the Bell Organ

The Bell Organs have just received the HIGHEST AWARD and SPECIAL PRIZE (Gold Medal) at the International Exhibition, Sydnoy, Australia, this year for their Organs over all the English and American makers. This, along with the unlimited awards, prove that

THE BELL ORGANS LEAD THE WORLD.

1878 1870 1880 Medal and Diploma. International Medal Provincial Exhibition, Industrial Exhibition, and Diploma. 田以 Medal for Parior Organ, Medal for Parlor Organ. • Centennial Provincial Exhibition Gold Medal.... Exhibition, 1277

The Bell Organ Manufactory is the Largest and Oldest in the Brutish Empire, and the fact that we have sold nearly Egroperoves that they are the best in the market. We GUARANTEE ALL OUR ORGANS for five years. Correspondence invited. Hinstrated Catelogue mailed free.

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FA MOUS INTERNATIONAL BOILER FLUID COMPOUND.

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This Compound will save its Cost many times in one year by saving fuel. It oradicates scale, and when the Boiler is once Clean a very small quantity keeps it Clean and Free from all Incrustation.

It is perfectly harmless to Iron, and emits a clear pure Steam. In ordering, mention the Canada Lembersian.

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Norman's Electro Curative Appliances

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Spinal Complaints, General and NERVOUS DEBILITY, Rheumatism, Gout, Nervousness, Liver, Kidney, Lung, Throat and Chest Complaints, Neuralgia, B onchitis, Incipient Paralysis, Asthma, Sciatica, Sprains, Consumption, Sleoplessness, Colds, Indigestion.

Ask for Norman's Electric Belts and you will be safe against imposition, for they will do their work well and are cheap at any price.

A. NORMAN, Esq.,

Dear Sir,- Please send me a waist belt. Enclosed find price. Head band I got for my wife has almost cured her of neuralgia. Yours truly,

C. L. TILLEY.

Numerous of an h testimonials can be seen at my office, proving that they are doing a good work and worthy the attention of all sufferers. Circulars free. No charge for consultation.

A. NORMAN, 4, Queen Street East, Toronto.

N.B. Trusses for Rupture, best in America, and Electric Batteries always on hand at reasonable prices.

Will always find a Large Stock of

Shanty Blankets

AND

HORSE BLANKETS

At LOWEST Mill Price, at

JNO. MACDONALD & CO'S

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Send Sample Order for our LINED SHAPED

HORSE RUG, a Specialty, highly recommended for

Wear and Warmth.

WILLIAM CAMPBELL

(Late CAMPBELL & FOWLER.)

MANUFACTURER OF

Edge Tools, Axles, Springs,

&C., OF EVERY DESCRIPTION.

The Best Axes in the World! A Model of Perfection!





Also Dunn Edge Tool Company's and best Canadian Axes, repacked any weights without extra charge. Lindsay Pattern of Broad and Blocking Axes LANCE TOOTH SAWS, warranted good. Timber Lines and Chalk. Stable Shovels, Forks and Brooms. 2d CUT FILES. Heavy HAMES, BUCKLES and HARNESS TRIM-MINGS, Curry Combs and Horse Brushes. Sleigh Shoe Steel from & to & inches wide. Best proved Coil Chain from & to & inches. Blacksmith's Bellows, Anvils, Vises, Drills, Horse Nails and Shoes. A large Stock of Iron and Cast Steel

Winchester, Sharp's and Ballard Rifles and Cartridges.

GEORGE STETHEM, Peterborough, Ont.

Importer, Jobber and Retail Dealer in Hardware.

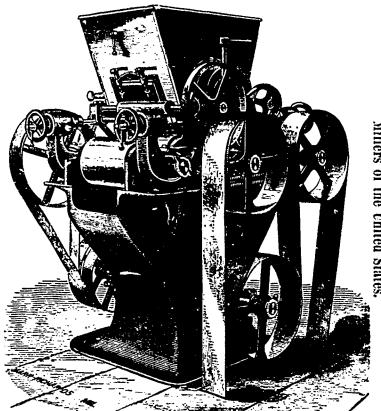
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Flour Making by the New Process

GRAY'S PATENT

Robertson Place, Smythe Street - ST. JOHN, N.B. NOISELES ROLLER MILL

Every Mill a Success!



The Machine is Perfect in all its adjustments, and RUNS WITHOUT NOISE.

It is doing Better Work than any other Machine in use. Automatic Lubrication of Principal Bearings.

Driven entirely by BELTS.

Differential Speed always insured.

WEYMAN'S NEW IMPROVED PATENT

The BEST ROLL FOR MIDDLINGS in the world. Over 6000 in use in this country and Europe. Send for particulars.

MILLER BROS. & MITCHELL,

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MONTREAL.

SOLE LICENSEES FOR DOMINION.

Manufacturers of Improved Hoisting Machinery, MINING and CONTRACTORS' PLANT. Importers of BEST STEEL WIRE ROPE. Mention this Paper.

EMERY WHEELS FOR SAW GUMMING!



Solid Emery Wheels are now almost in universal use for the purpose of guiletting and gumming saws. Statistics show from 25,000 saw-mills in the fluited States. Many of these rue only a single saw each. A one-saw mill would use one or two wheels a year, costing \$3 to \$4 each, and when such small mills order single Emery Wheels from the factory, the express charges often equal the cost of the wheel. There was a time when the quality of Emery Wheels was so uncertain, and the demand so fickle, that storekeepers could not afford to carry them in stock. Now, however, Saw Gumming Wheels have become as staple an article as Files, and every dealer in saws, Hardware and Mill Supplies can afford to carry a few dozen standard sizes in stock, Large dealers order stocks of \$500 to \$750 worth at a time. Saw Gumming Wheels are used with the edge (or face) square, round or beveled. Probably seven-eights of all in use are beveled.

The principal sizes are:

$$\begin{cases} 8x\frac{1}{8}\\ 8x\frac{1}{9}\\ 8x\frac{1}{9} \end{cases}$$
 in hole.
$$\begin{cases} 10x\frac{1}{9}\\ 10x\frac{1}{9}\\ 10x\frac{1}{9} \end{cases}$$
 in hole.
$$\begin{cases} 12x\frac{1}{9}\\ 12x\frac{1}{9}\\ 12x\frac{1}{9}\\ 12x\frac{1}{9} \end{cases}$$
 Holes,
$$\begin{cases} 12x\frac{1}{9}\\ 12x\frac{1}{9}\\ 12x\frac{1}{9} \end{cases}$$

Probably more wheels 12xi, 12xi and 12xi are used than all the other sizes together. Saw Gumming Wheels are used, however, of all sizes up to 24xl). The most frequent complaint is that Emery Wheels harden the saw so that a file won't touch it. The answer is that you don't want a file to touch it. An expert workman will shape and sharpen the teeth with an Emery Wheel, leaving the teeth case hardened, in which condition the saw will cut about 83} per cent. more lumber than a soft saw will. Those who want to use the file, however, have only to touch the saw lightly a second time (after going all over it once), and this second touch will cut through the case-hardened scale.

A QUESTION OF QUALITY.

Thirteen years of experience as makers of, dealers in, and actual users of Emery Wheels, have led us to a decided opinion as to what quality is the best. We prefer for almost every use an "Extra Soft" wheel like the "Pocopa" We believe that money lost through the rapid wear of the wheel is more than made up by the money saved on wages. As we cannot get every use an adopt our views, we make several qualities, so as to meet their views. We say to those who think they can only be satisfied with some other make of wheels (not Tanike), that we can furnish qualities to match any and every other make. If you have got used to some special quality of wheel, let us know what it is, and we can send you a Tunke Wheel of similar quality. Our regular classification of Saw Gumming Wheels is as follows:

CLASS 2. MEDIUM-HARD.-This Wheel is THE STANDARD Saw Gumming Wheel all over the world. Probably seven-eighths of all the Saw Gumming Wheels used are "Class 2. It cuts fast and keeps its shape well. Some think it too hard, some too soft. We prefer the "Pocono."

CL! 38 3. MEDIUM-SOFT.-The same as to coarseness and fineness as "Class 2," but a softer, and therefor freer cutting wheel.

CLA38 "POCONO." EXTRA SOFT.—This Wheel we profer to all others. It is both finer in grain and softer than either of the above. As a Saw Gamming Wheel, Class "Pocono" is specially salled to these practical and experienced Sawyers who know how to grind with a light touch, and who want a free cutting wheel that will not create much heat.

Illustrated Circulars and Catalogue, showing Cuts of Naw Gumming Machines, and Shapes, Sizes and Prices of Wheels, sent free on application.

The Tanite Co. Stroudsburg, Monroe Co. Pennsylvania

CANADIAN TRADE SPECIALLY SOLICITED.

M. Covel's Latest Improved Automatic Saw Sharpener!

Is the Most Perfect Machine that has ever been Introduced into Mills for that purpose.

CIRCULAR SAW STEAM FEED!

I would also call special attention to my

Heavy Circular Saw Mills

and for STEAN MILLS, would recommend the Steam Food, having put in several which are giving the best of satisfaction, as will be seen by the following testimonials:-

GRAVENHURST, August 20th, 1880.

WM. HAMILTON, FSQ., Peterborough.

W.M. Hamilton, Fsq., Poterborough.

DEAR SIR-I have used your Steam Feed for near four months, and it has given me perfect satisfaction in every way; it is admitted by every person who has seen it work to be the best feed over invented. Since I put it into my mill. I have not lost ten minutes time fixing anything belonging to it. I can cut 18 boards 13 ft. long in one minute. It can do much smoother and better work than the pinion feed. It is easily governed and reverses the carriages instantly. I am thoroughly satisfied with it and one recommend it to any person who has a Circular Saw Mill for cutting long or short logs. I consider I have cut more lumber than will pay for the Steam Feed since I got it than I would have cut had I not put it in.

Yours respectfully,

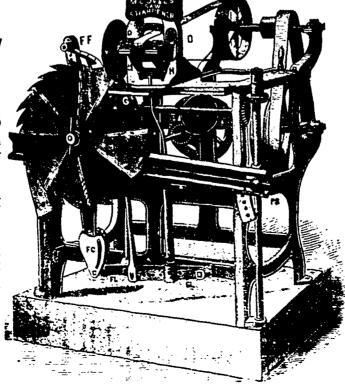
WILLIAM TAIT,
Lumberman, Gravenhurst.

TORONTO, August 11tb, 1880.

Wм. Намигом, Peterborough, Ont.

DEAR SHE-The Steam Feed you put in is working spiendidly. Yours, &c.,

THOMPSON, SMITH & SON.



sizes of Gang or Circ.lar Mills, Span or Double Circulars for Slubbing Small Logs. My Patent Jack Chain for drawing logs into Saw Mills, acknowledged by all to be the Cheapest and best ever got up; also, my Patent Lumber Markers, different sizes of Edgers, Gang Lath Mills, Trimmers, Power Gummers, and all Machinery used in a first class Gang or Circular Saw Mill; also, small Hand Gummers for use in the woods, for Cross-cut Saws. Rotary Pumps of different sizes, for Fire Protection in Mills, &c.

Horizontal Engines and Boilers



Where economy of fuel is the great consideration, along with uniformity of speed, such as is required in Grist and Flouring Mills, Wooller, and Cotton Factories, or large Factories of any kind, I emply the Corliss Engine. I feet justified in saying that our Style, Workmanship and Finish on this Engine will be no discredit to its renown, and cortainly is not equalled in this country for economy of fuel. I have them working at 2} pounds of coal per horse-power

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PETERBOROUGH, ONT.