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PUBLISH ED SEMI-MONT HLY.

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

SUBSCRIPTION \$2.00 PER ANNUM

VOL. 5.

PETERBOROUGH, ONT., JULY 1, 1885.

NO. 13.

DUTIES OF THE MILL FOREMAN

I will endeavor to tell what ought to be the duties of a planing mill foreman, and in this connection say how he ought to be treated.

We should say in the first place that he ought to be a man of strictly temperate habits. You may my I am drawing the lines close here, but it is nevertheless true to the letter, and I emphasize it very emphatically. No man having charge of men or machines should ever stop over the line of strictly temperance habits. Here is the base and foundation upon which they should stand solid and firm. One reason for this is, he wants a clear head at all times, no matter what the difficulty is; or, if there is no trouble, he wants his head always level and clast.

Granted that we have got that, the next thing we want is that he should understand perfectly the mechanical part of his business. He should not only be able to do well every part of the work, but should be able intelligently to impart this knowledge to others in such a way that when he is not able to attend person ally to any particular work he wants done, he will know that when he puts any of his men to work it will be done right. He should also know every part of his machine in detail, so that when any part is broken he shall be able to make a free hand sketch of it, and, instead of sending the broken part to the concern that made the machine, he can send the sketch of it, which will be all that is necessary.

Sometimes, of course, a new machine is introduced into the works, and for a time he may know only the general principles of it, but just as soon as possible he should post himself up on every identical piece and know its value and use. Here is where many a foreman is lacking, and I very much doubt if there is one foremen in five throughout the country who, if their machines were pulled to pieces and thrown into a pile promiscuously, could go to work and pick out each piece and tell what part of the machine it belonged to. A great many times from this cause, a machine may run badly, and be, not knowing just where to to locate the trouble, has to do as hundreds of our M. D.'s do, guess whats the matter and try a dose of this and a dose of that, till, porhaps by accident, be bits the right place. This is a poor way to The machine doctor should be able to diagnose the place at once and apply the proper remedy then and there, without delay. Oftimes a break-down occurs and by a quick foresight the foreman can fix it up for the time all the hurry is over, or perhaps run till shut ting down time, when the broken parts can be repaired so you can start up on time the next

We should not expect everything of a forehan. He may be a good manager and understand his work to a nicety, and yet not be able

make bolts or cutters, or run a lathe to turn up shafting, or fit up machinery. This is the blacksmith's part and every concern who have their own power should have a engineer who is a practical mechanic, and able to do all this kind of machine work. A foreman's time is generally more valuable about the mill keeping things in order and pushing the work along. han in acting the part of machinist and foreman too. When too many irons are in the fire some of them are pretty sure to get burned.

The main point is to keep things moving, and he should have the tact and energy, understand ing and judgment to, as the saying is, "take the bull by the horns." It certainly is no objection to have a man who can go to the forge (and certainly no mill, however small it may be, should ever do without a forge and anvil, and a few pair of tongs) and do a good jeb, but, as I have remarked, it costs more than it comes to generally.

A foreman should be a first-class manager of men, and ought to understand human nature. My reasons for this are, that no two men can stand exactly the same treatment. 9 man has to stop every minute to tell a hard twisted yarn, another is stubborn as a niule. One man must be given to understand that it is "root hog or die," and another if you rub his ears a little and say "s't boy," will do anything you want him to and more too So every man, to get along nicely and get a fair day's work out of them, must have a little stimulant that just fits their case, and every foreman should understand this to perfection.

He should know just how to keep things When one job is out another should moving. follow it immediately and with just as little delay as possible. These lost moments soon count up into hours, and hours make days, and the time lost can never be redeemed. Machines are not like horses, we can never apply the whip and spur to make them go faster. The whip an I spur come in by keeping them cutting. If we let two inches, or four inches, or a foot between the end of every board as it is fed into the machine, we soon lose a thousand feet, and many thousand feet are lost during the year in this way.

It should be a foreman's place to see that no paces are left, and that the end of every board butts against the end of the one going out. A good reason for keeping the stuff close together is that the ends are not near as likely to chip as when space comes between them.

One thing more. A foreman should give all the men the same general treatment. While, have to wait till n as I have said, each man has an individuality the Wood Worker. or something peculiar to himself which we have to look out for, and take advantage of, still, we must give them all the same general treatment Don't let one come and fill your head about some one else-never allow that by any means. b go to the forge and weld and hammer from or If you are not smart and sharp enough to detect! cords, and several small houses.

any irregularities, let them go, and never make a difference in your men by allowing them to tattle and act as detective.

Do not seek favors for solfish ends, and give a better job to one just because he will clean the snow from your walk. He should know exactly large proportion of sawdust, mixed with what each man is capable of doing and set each one to that part of the work that he can do best

never, by the smallest act or word, do or say to remove the sheathing, or lath and plaster, anything that shall cause you to lose one tota of already on the maide wails. the respect of the men. Here is the main hold studding is already exposed on the inner side, of a foreman. You may be ever so smart, and the space is frequently filled with brick, masonry, and respect of your men you have lost your best material made for such purposes in America is hold, and no muster how much sail you may called terra cotta lumber, and is composed of carry, or how deep the keel is, you will drift to top clay, which overlies the hrebrick clay, mixed leoward in spite of everything. I will also add with equal or double quantities of sawdust. here. Don't lose respect for yourself. Never Every vestage of the sawdust disappears in do a thing that you don't care for your men to firing, leaving the tiles very porous. Its use is see. Never dodge round a corner nor through not limited to filling walls, but it is applied to a door till one of your men has gone past for other purposes of construction where refractory fear he will see you have some suspicious bundle, materials are desired, as for short joists between under your arm. Nor let them see you go into iron floor, beams roofs, covering to iron columns there, for if you don't nobody can over see you boilers and steam pipes. Small cylinders of this there. You may think I am hauling down the material are arranged with suitable coverings, lines of morality pretty taut. If I do, it is for filled with petroleum, and used for torches. the good of one of the greatest industries in the Nails and screws can be driven into it, and it country.

A foreman should always be in his place, the first one about the mill, and enforce strictly and firmly the rule that every man should be in his place ready to take hold when the wheel starts. I am, I see, laping down the rules for those who have charge of mills of considerable size, so is pursued.

I thought I should be able to tell how a fore-While, have to wait till next time. -J. T. Langdon, in in rail shipments from Muskegon, Mich.

about Nowberry, upper peninsula, Mich., was taken throughout the joni, the aggregate will from \$8,000 to \$10,000. Among other property destroyed was wood to the amount of 5,000

PROTECTING WOODEN BUILDINGS

A very simple method of rendering wood factory buildings of greater resistence to fire consists in filling the spaces between the studding with a grout made of sand, lime, and a sufficient water to flow slowly; it becomes quite hard, is a poor conductor of heat, and will not ignite although it is charred by exposure to an I have said one more thing, but have still intense fire. This applies to a building already another to call your attention to, and that is, constructed, where it would be a difficult task Where the sharp as a thistle, but if you lose the esteem or large tiles made for such purposes. A new any place of doubtful reputation. Don't go and beams, sheathings for internally fired can be cut to dimension with edge tools as desired .- Engineering.

An Important Lumber Case.

The following appeared in Toronto Mail of June 15th .-

"SCOTT v. LANEIDIOT.-The case of Scott v. that the foreman does not have to put on the Benedict was concluded on Friday night before overalls and jumpers and feed machines and the Court of Appeal and judgment was reserved. grand knives, and do much of the drugery about The action is brought to establish a vendor's the mill. But the same principles should lien on 1103 square miles of timber limits in the govern every case till you get down to just a County of l'eterborough, the amount of property single person. In a small mill a foreman must involved being valued at about half a million expect to do his share of the work, whether it dollars. At the trial and subsequently the is filing saws or grinding knives, or feeding decision in the case was adverse to the plaintiffs, machines, when necessary to keep work pushing and they appealed to the Court of Appeal. Mr. along, but in no case should be so confined T. H. A. Scott, one of the plaintiffs, conducted to the work that he cannot properly see to other his own case, arguing for seven hours, and at the parts of the work needing his oversight and conclusion of his address was complimented by care. Many times proprietors of mills put too Mr. Justice Burton, who told him that his much such work on him, and I am free to say, arguments would reflect credit on an old counsel, that more is lost than made when such a course Mr. W. Barwick appeared for the defendants.

Diring the months of January, February, man should be treated in this article, but shall March and April, there was a marked increase Lumber to the amount of 33,541,881 feet, lath, 11,104,688 pieces, pickets, 197,891, and shingles, THE loss of property by the late forest fires 6,850,250 were shipped. If this ratio is main be 108,000,000, or about one-sixth the cut of the mills at that point. The shipments by rail from Muskegon last year were 50,000,000 feet.

NEW ENGLAND SPRUCE.

There are but few of the lumber manufacturres in the West who have more than a vague idea of the sprace business, as it is carried on in the provinces and the eastern states . neither do they begin to understand the extent to which spruce has become a competitor of white pine

The lumber used in the construction of a building in the castorn states, is totally different from that used in any other locality. To the Pennsylvania man there is no wood for framing. purposes equal to Homlock; the Michigan man is equally as firm in his opinion of white pine. but let cither of the men advance his theories to the New England builder, and he would find he had met an equally strong adherent to the use of spruce. For framing purposes spruce is used almost exclusively. For boarding in, it is the custom to use hemlock or natched white Pine, according to the quality of the work desir ed. Hemlock is generally used for under and apruce for upper floors, and in many instances a preference is shown for spruce ceiling over

white pine.
Th- most extensive spruce forests are in Maine and most of the lumber cut in that state is shipped by water to the various distributing points The mills in New Hampshire and Vermont supply the interior points and deliver necessarily by rail. The mills which make a specialty of flooring are generally equipped with the best of machinery for dressing, and not a few have first class dry-kilns. Undoubtedly the manufacturers of dressed spruce realize that to sustain the demand, much depends upon the quality of the mill work, and the result has been that, in the past few years, especial attention has been paid to that branch of the business. Dealers whose yards are located at points along the eastern coast, generally purchase of the manufacturers who ship from the Kennebec or Penobscot rivers. It is customary to make up cargoes of random sizes and rough boards, which of course are sorted for sizes at their destination. Schedules of special sizes are also shipped in this way. Floor boards, if dressed, are generally shipped in box cars. In the matter of dressing, some prefer flooring dressed one side and jointed; others will use it dressed one side and matched. The latter method, in case the boards are not thoroughly dry, is undoubtely the

better.
Some idea of the spruce business of the Boston market can be obtained from the returns to the inspector general's office for the first three months of the present year. During that time there was inspected 848,294 feet of spruce boards, and 1,171,167 feet of plank and timber. In addition to this amount there were many car loads of boards which arrived from mills in Vermont and New Hampshire which were sold from the car and no returns made. The present quotation on random cargoes - by that is meant ordinary sizes of framing timber - is from \$12,50 to \$13,50; special schedules by rail, \$13.50 to \$14.50. First clear spruce floor boards sell in castern Massachusetts at \$18 to \$18.50, and second clear at \$2 a thousand less.

From present reports there is every prespect of a scarcity of spruce logs at the mills. The senson so far has been unusually dry; very little rain has fallen and the melting of the snow upon the mountains has caused the streams to rise but alightly. One of the most extensive spruce manufacturers on the the Kennelwe river estimates that the stock this year, as compared with last, will fall short not less than 50,000,000 feet, while the cut on the Penobscot river will shows corresponding decrease. The result of this shortage must inevitably affect values at no distant day; in fact some of the mills are already refusing to sell except for immediate delivery, and others are reported as out of the market entirely. Should a boom in spruce set in the chances are it would become contagious, and in some degree affect the value of white pine for the better. - Northwestern Lumberman.

"She tried her prentice hand on man,
And then she formed the lassica, O!"
"What is woman's worth?" naked a fair
damsel of a crusty old bachelor. He did not
know, so she said. W. U. man ideable you O
man). Bu a women feels worth dittle, I disease
has invad d her system and is darty sapping
her sit-nath. For all felmate weaknesses, Dr.
R. V. Pierce's "Favorite Preceip on" is not
aurivalled. It cores the complaint and builds
up the system. Send two letter stamps for
pamphlet, to World's Dispensary Medical Association, Bullain, N.Y.

SOLID AND INSERTED TOOTH SAWS.

I have read with considerable interest the letters in the Saw Mill Gazette, concerning the fitting and running of circular saws. There are nearly as many different views on these questions as there men. This I have learned in my travels among nearly all the lumber sections of the United States. But I am very glad to note, that with a few exceptions, the trade all agree in the belief that the most and bust lumber can be made with a full swage and square tooth. There is, however, a diversity of opinion, as to the number of teeth required, the guage of saws that should be used. As to the former point, I think that what "A. W." said in your April number is correct, i. c., that saw teeth should under all circumstances cut about the same amount of wood. My experience has been, that saws did the best and the most work, when the teeth removed a inch at each revolution. "A.W.N." does not give this theory. Mine demonstrated by long experience is this: There is a minimum as well as a maximum capacity to every circular saw to make good lumber. The minimum is reached when you reduce your feed so that the saw teeth are cutting the dust so fine, that a large portion of it is crowded back between the saw plate and the timber on each side, thereby causing the rim of the saw to heat and make bad lumber. I have frequently seen saws making bad lumber on a light feed, merely for the reason that the sawdust was cut too fine, and was crowded back, instead of being carried out by the tooth. as it would have been had it been coarser. But in all cases the teeth must have large throats or gullets to stand a heavy feed. And here let me say that the main secret of success, lies in carry ing heavy feed. I have watched the circular saw year after year, and have seen its capacity increase from twenty thousand, to seventy-five, to one hundred thousand feet per day, and at each step of five to ten thousand, we all thought the limit had been reached. I now believe that the capacity of a circular saw is only limited by the capacity of the gullets to carry the dust out of the cut, be the feed five inches or five times five. Some mills have attained a 20-inch feed in some logs and mae good lumber.

Without meaning o disparage inserted tooth saws, I am satisfied time the greatest hindrance to their ability to do as much work as solid saws, is the wearing off of the edges of the gullets of inserted teeth, thereby letting more fine dust crowd back and heat the saw, than is the case with the solid saw, which has its gullet squared up every time it goes on the emery

Some of your writers seem to think that the guage of a saw does not matter, as the tension must be put in with the haminer, no matter what the gauge. That is all true, but there is no getting around the fact, that the more steel in a saw, the more stiffness, and when backed up by sufficient power, the more ability to stand a heavy feed.

One word for the saw manufacturers. I think they require, and have indeed shown, more Christian forbearance than any other class of men. I will admit that have some preference among the different saws, but after using nearly every make, I can say that while from the best of makers I have had some saws that did not exactly suit, I have never yet had to condemn 2 saw because it would not make good lumber. Cor. Saw Mill Gazette.

Utilizing Sawdust.

If sawdust can be used as fuel successfullyand it is done every day in saw-mills in the United States and Canada—there should be but little difficulty in using slack or pulverized coal on steamships. A patent has been secured by an Italian engineer which may work nothing short of a revolution in the steam coal trade. He claims to have solved a system by which small coal, or slack, may be exclusively used on board occangoing steamers. The Societa Navigazione Generale Italiana thinks of applyin. the method to their fleet of steamers, which number over 100 and consume annually 150,000 tons of large steam coal.

The box factories of Oswego, N. Y., are cutting up nearly 300,000 feet of lumber a day.

A NEW MATCH MACHINE. Two Troy men have invented a machine

which, it is claimed, will practically revolution-120 match making. It has been operated to make 24,000 perfect matches in a minute, and its expacity is expected to reach 15,000,000 in ten hours. The vencer of pine wood is fed upon smal platform and passes between rollers, which partly cut it crosswise the width of a match. From the rollers the vencer passes over the abrupt edge of a concave, where the splints are caught by a rubber roller, separated by the action of the roller and rubbed along over the acancave so that all the adhering fibre is removed Then the splints are carried by a chain, from which they are forced into a dipping web or strip of paper. The web containing the splints is then conveyed into a trough, wherein, by the action of a revolving wheel, paraffine is put on the end of each of the splints. When the parafine is dry by passing through a heated chamber, another wheel, revolving in a phosphorous composition, applies the composition to the ends of the splints, and the webs pass to reels where they remain until dry. -Chicago Industria World.

BOARD OF TRADE RETURNS.

The following are the returns issued by the Board of Trade, for the month of May 1885, compared; and also for the 5 months ending May, 1884 and 1885, compared:

MONTH ENDED 30TH APRIL 1885.

MONTE BADED OUTS ALE	1000.		ı
Timber (Hevon).	Quantity.	Valus. L.	l
Russia		64,489	١
Sweden and Norway	61.619	70,033	l
Germany		105,142	Į
United States		61,400	١
British India	1,124	14,939	ı
British North America	3,929	13,932	ł
Other Countries	26,115	48,557	l
Total	. 170,697	378,652	l
Timber (Sawn or Split, Planed or Dressed).		_	
Russia	90,531	190,410	l
Sweden and Norway	150,287	350,130	l
British North America		21,645	l
Other Countries	24,663	75,212	l
Total	901 527	637,597	l
		031,381	l
Staves, (all sizes)	8,484	42,931	
Mahogany (tons)		34,412	ĺ
Total of Hewn and Sawn		1,015,949	
PINE MONTHS ENDED SOTH	MAT 1885	•	Ĺ
Timber (Hewn).			
Russia		89,012	
Sweden and Norway		278,871	ĺ
Germany		237,400	,
United States		218,768	
British India		232,524	ľ
British North America		22,110	1
Other Countries		231,366	1
Total	620,600	1,364,016	ĺ
Tumber (Sawn or Split, Planed or Dressed).			1
Russia	111,969	233,731	
Sweden and Norway	344,413	758,237	
British North America		55,859	
Other Countries	127,195	392,037	
Total		1,439,848	
Staves (all sizes)		151,490	
Mahogany (tons)	29,000	253,442	

Total of Hewn and Sawn

Subscribe for the CANADA LUMBERMAN.

BAND SAWS.

The Chatham Manufacturing Company have just completed and successfully started, a band saw mill for sawing large short logs. A band saw is simply an endless belt of very superior steel, one edge of which is serrated. The saws used in this new mill are about forty three feet long, five inches wide, and one sixteenth of an inch thick, and are run on two pulleys, one above the other, seven feet in diameter.

The band saw machinery for this mill was built and supplied by Messrs. Sinker, Davis & Co., of Indianapolis, Ind., and to all appearances is perfect, and is very massive, weighing about 25,000 lbs. This mill will saw a stick of timber, five feet square, or side up or saw a log six feet in diameter. Its capacity is about 30,000 feet of soft, as d 20,000 feet of hardwood lumber per day of ten hours. It is driven by an engine of seventy five horse power, but many years ago by the late firm of Hyslep & Ronald, and it is driven by three boilers, built at the same time by our esteemed townsman, Mr. Harry McPhilemy, from a very superior iron then known as the "Elephant" brand. It has been ascertained by actual examination and test, that notwithstanding the age of these boilers and engine, and passing through two fires, the repairs lately given them render them as good They are sufficiently powerful to drive three band saws.

We heartily congratulate Mr. Van Allen, the president and manager, on the success of this new departure in saw mills, introd ced at his instance for the first time in Canada. If he who makes two blades of grass grow where only one grew before, is public benefactor, certainly Mr. Van Allen is entitled to that appellation; for, does he not make seven boards from what only made six before? Mr. Van Allen also enjoys the honor of first introducing in 1858, if not into all Canada, at least this part of it, the five feet and five and a half feet circular saws. The object then was, not to save timber, but to make as much lumber per day as possible, in which the circular saw was so tar ahead of the mulley saw that it went out of use. Band saw mills, as now constructed, having almost-or equal-capacity for sawing to the circular, effecting as they do so great a saving of timber, naking lumber very much smoother and evener, are as sure to supplant the circular and take its place, as the circular was to take the place of the mulley. The days of circular saws, yielding about as large a pile of sawdust as of lumber, are numbered-no doubt of it .- Chatham

Advice to Mothers.

Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain and cutting teeth? Itse, send at once and get a bottle of Mrs. Winslow's Soothing Syrup for children teething. Its value is incalculable. It will relieve the poor little sufferer immediately. Defend upon it, mothers, there is no mistake about it. It cures dysentery and diarrhoea, regulates the stomach and bowels, cures wind, colir, softens the gums, reduces inflammation, and gives tone and energy to the wholesystem, the windle with the south of the colir, softens the gums, reduces inflammation, and gives tone and energy to the wholesystem, the windle with the south of the oldest and best female ourses and physicians in the U. ited States, and is for sale by all druggists throughout the world. Price 25 cents a bottle.

LIVERPOOL STOCKS.

1,229,908 2,805,862

We take from the Timber Trades Journal the following Comparative Table showing Stock of Timber and Deals in averpool on June 1st 1884 and 1885, and also the Consumption for the month of May 1884 and 1885 :-

S	tock, June 1885.	1et.	Stock, June 1 1884.	281.	Consumption for the month of May 1885.	Consumption for the month of Nay 1884.
Quebec Square Pine	191,000		274,000 ft 211,000 "	- [70,000 ft.	73,000 ft.
St. John PingOther Ports Ping	42,000 °	6	41,000 " 61,000 "	١.	17,000 "	14,000 "
Red Pine Pitch Pine, hewn	28,000		49,000 ** 431,000 **	- 1	9,000 "	2,000 **
Sawn	370,000		C35,000 · .	- 1	185,000 " 269,000 "	270,600 ** 863,600 **
Planks. Dantzic, &c., Fir	. 69,000		72,000 " 76,000 "	١.	18,000 "	24,000 '' 24,000 ''
Sweden and Norway Fir	162,000	•	77,000 " 211,000 "	1	5,000 " 14,000 "	8,000 ** 28,000 **
" Planks" Baltic	158,000	16 16	201,000 4		\$0,000 · · · · · · · · · · · · · · · · ·	62,000 ** 0,000 **
Ash	25,000		7,000 '' 10,000 ''	- [2,000 "	0,000 **
Birch	80,000	14	59,000 ** 46,000 **	- 1	000,63 " 000,18	35,000 ''
Greenheart	49,000 4	•	(3,00 "	ľ	25,000 "	8,000 ** 4,000 **
" Pine	639	•	1,830	-	4,390 stds.	2,048 stds.
Q ebec Pine & Spruce Deals aultic Red Deals, &c	2,259		5,603 ⁴⁴ 3,867 ⁴⁴	-	760 "	1,712 '' 376 ''
Baltic Beardsprepared Plooring	3,667		3,977 "	1	1,093 "	952 1

Most Portable, Efficient & Durable Saw Mills built in the We

3 SIZES MADE WITH ENGINES ON WEEEL, 12, 16 and 20 HORSE POWER.

WIL STODDART, Contractor on C. P. R., writes from Dalton Station, Biscotesing P.O., April 20th, 1885.—"I am now through with the 16 h. p. Champon Saw Mill The unitability and in as good condition as when received. The unit has given entire satisfaction, and since getting into better timber has gone far boyond my expectations, sawing in the available of bridge timber, 6 x 8, 6 x 12, 9 x 12, every 10 hours.

Larger **Portable** THE FIRE-PROOF CHAMPION and Semi-+ SAW MILL.+ Portable Mills and Heavy Saw MIII Machinery Twin Saw Tie Mills. ENGINE WORKS CO BRANTFORD

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Saw Swages.

GANDY BELTING!

Rest and Chearest Main Driver Soud for sample order and trylts, ear a se

EWART LINK BELT

For Elevating and Convoying of averymos concervable kend about a Saw Millimottum

SEND FOR No. 12 CIRCULAR SAWB" AND CAW FURNISHINGS

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Etc, etc.

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THE FORESTS OF CANADA.

Dr. R. D. Lyons, M. P. for Dublin, of whom we have already made honorable mention in previous number as an investigator of the timber resources on which this country depends for its future supplies, has, under the authority of the Earl of Derby (as Secretary of the State for the Colonies) obtained a variety of reports from the various provinces of Canada as to the state of its forests and the future outlook, apparently with a view to ascertain the probable powers of production that may be reasonably counted on as available for the customary requirements in that kind which this country is in the habit of importing.

The result is a Blue Book which has just been presented to Parliament "by command of Her Majosty," from which a good deal of usoful information may be gleaned, and which has a special interest for the trade of this country.

The reports are furnished by the heads of departments and lieutenant-governors, and contain the official experience of the forestal authorities. While generally admitting that there has been a great deal of wanton waste in the working of timber limits in the past, there is numbere to be traced any despair of the future as to an obsolute scarcity of timber, within any given number of years, and none of them seem to adopt in extense the hypothesis of Mr. Little, whose predictions can only be explained as referring specially to the larger and choicer kinds of timber which are only to be come at now, with greater labor and expense than formerly, when they were not so far to seek. But Mr. Little put his own opinion on record in these columns cleven years ago, where it is stated that in thirty years from that date there would not be enough wood in the United States to make a fagot at the rate of consumption then going on. But from these reports nothing like that is to be appehended, and none of them venture a prediction as to the possible extinction of the Canadian forests within a cycle of years to come. On the other hand, some do not hestitate even now to pronounce the resources of the Dominion and British Columbia, its supplement on the Pacific side, as absolutely inexhaustible.

On this point Mr. J. H. [Austin, of the Crown Land Office, Halifax, states:-

"After having made inquiry of several gentlemen engaged in the lumbering business in this province (Nova Scotia), I find that in all probability all, or nearly all, the timber lands will have been cut over for the first time by, or perhaps before, the expiration of six years from this date; but it does not follow that the timber supply will then be exhausted. It is found that by carefully husbanding those trees that are too small for conversion into lumber, at the timber of the first cutting, after 15 or 20 years a second cut nearly equal to the first can, in many localities be obtained, consequently, if it were not for forest fires, those lands which are carefully looked after would never become denuded of their timber.'

We learn from this paragraph, what has not been pointed out by those who inculcate the the theory of forest extinction in the near future, viz., that the forests reafforest themselves, under ordinary circumstances, for instance, if not utterly destroyed to make room for agriculture, and further on in the report we find the following:-

"Suppose 18 in. diameter to be the standard adopted by a lumberman in felling trees, that is, he will fell no tree of a less diameter, and that he cuts from his land every tree of that dimension and upwards (generally about 50 trees to the acre), let the forest then rest for 15 years, when the same quantity of that dimension and upwards may again be taken. If active measures were adopted to put a stop to the ravages of forest fires, and to prevent the felling of trees of a less size than say 16 in. diameter at 10 feet from the butt. I am sure

10 square miles through which the Sackville River flows, thus :-

"Up to the year 1840 every house in Halifax was built of timber from that section, and, as every one knows, it has produced an enormous quantity of cordwood, house-frames, boards, deals, wharf logs, shingles, etc., ever since Within three years the writer has travelled through every part of the section referred to, and it appears as far from exhaustion new as it did 40 years ago."

In Nova Scotia it seems there are no forestry restrictions, but every man is allowed to cut as he pleases; consequently the destruction of young trees is enormous. But forest fires are more destructive to timber in this province than all the lumbering put together. "The axe makes sad havoc, but may be reglated; fires are terrible." He further says that "the annual timber production of Nova Scotia has never been correctly estimated, but from returns obtained I know it to be greater by several millions of feet than is generally supposed."

Appended to this report, signed Mr. W. A. Hendry, of Halifax, some singular phenomena appear, in a table setting forth the result of an experiment on the comparative age and size of ten trees, from which it would appear that size is no certain criterion of age, as two trees of the same size and in the same neighborhood may be of very different ages. Here are the narticulars :—

Red Spruce 9 in. diam. 48 rings (years). 91 " 51 91 " 54 Red 91 54 10 " " ** " 58 44 44 .. " White Pine 9 58 16 " " 16 " " Red spruce 43 13 " " 44 12 " " 16 47

Red spruce is unknown in this country by that designation, if it comes here at all; but it appears to be a fast growing wood, achieving a ize in 43 years which it took 72 years for white pine to accomplish. But in explanation it is stated that "the difference in growth could well be accounted for by the different degrees of shelter."

The writer also states that-

"There is no reason to anticipate any sudden or even defined period for the extermination of our forests, but that they are gradually being exhausted is true, and it is proper to look this fact fairly in the face."

The report of Ontario, furnished from Toronto, by Mr. R. W. Phipps, Clerk of Forest Preservation, is to much the same effect, and he tells us that-

"With regard to the tunber supply of the Dominion of Canada no accurate calculation can be made-a general idea can be given by bserving that altogether the area of timber lands in the Dominion is calculated to be about 280,000 square miles,"

This space of land would be equal to about 179,200,000 English acres; to pursue the calculation say producing 50 merchantable timber trees to the acre, and renewable every 20 years, the imagination would be lost inextricably in a whirl of figures that it would bewilder anactuary to apportion to generations yet to come, with a view to determine when these forests would finally give out. This writer, referring to the contrary opinions expressed by men of equal experience and authority as to the forest extinction theory, says:—"It is probable that over a great extent this territory many of the largest trees have been taken out. But it should be remembered that the forest has great reproductive power; that young trees continually replace the old, and that in 20 years' time trees, now but of medium size will furnish excellent timber;" and he further adds presently: "In my opinion there is no doubt that, if care be taken of the remaining forests of Canada, a very large portion of them will continue in a perpetually reproductive condition, capable

House, Victoria, from the Lieut.-Governor, Mr. C. F. Cornwall. In this we are told that the southern and western portions of the territory are a densely wooded country, both mountains and plains being covered with thick and stately forests. It is in this region that the Douglas pine (A. Douglasii) abounds, of which it has been stated that "so closely do the trees stand, and withal so tall and straight, that the united navy yards of the world might draw thence their supplies for years without more than partially exhausting these spacious and majestic forests." The report is brief, but very much to the point, and was furnished by the Governor's Executive Council.

One more quotation, we may venture to make from it: "In refutation of the assertion that Canadian forests are within six years of exhaustion, so far as this province is concerned, an extract may be quoted from the Government prize essay of 1872, by the late A. C. Anderson : 'The forests of British Columbia are productive of an inexhaustible supply of timber of the most serviceable kind."

The report from Quebec alone which is most voluminous of all, would be worthy of an exclusive notice, but what we are most interested in learning for the trade is not the distribution of the woods and forests, their revenues, taxes, and obligations, so much as their capacity of production and accessibility, as we can only refer to the main subject of a report to give a general idea of its value. The rest must be sought for in the pamphlet itself. Though Ouebec is a household word among timber merchants, who suppose themselve to know all that is necessary about it for the purpose of their business, they will, perhaps, be surprised to lean that in the northern part of the province are thousands of square miles of forest as yet untouched by the woodman's axe. The whole area of the territory comprises about 117,800 square miles, a considerably larger space of land than England, Scotland and Ireland, with all the islands around them, and though the forests that adjoin the banks of the St. Lawrence have doubtless been denuded of their finest timber at various times, it would be a false conclusion to assume that they have been therefore annihil ated. Of the 177,800 square miles of territory not one fourth, it is stated, will ever be fit for agriculture, but must remain from its very nature forest, and devoted to the production of timber, by reason of its climate, soil and seclusion. The writer says: "On the southern tributaries of the Saguenay that interlace with those of the St. Maurice there is much good soil, and where the trees fit to make saw logs of have been cut away the small trees left, if not destroyed by fire, will soon be of a useful size. This remark is applicable to all timber regions, as I have had ample occasion to notice. In one case, where no error could occur, a small timber berth with well marked timber lines, which had been stripped of every tree fit to make a saw log, under an able manager, was cut over again by him eight years afterwards when by the increased size of the small trees formerly left as unfit a greater number of saw logs were made from them than was got by the first cut eight years before. On the Gatineau I passed through an extensive grove of young red pine trees of fine growth, that had been previously three times completely cut over since the commencement of lumbering there." Is not this the secret why the European forests have lasted through all ages, and are in great abundance still?

We cannot bring this brief notice to a close without referring to one important omission from Dr. Lyon's reports. While Ontario, Quebec, and Nova Scotia are done justice to, there is no mention whatever, good or bad, of the great timber-producing province of New Brunswick, An account of our North American forests, without any notice of New Brunswick is like the play of Hamlet with the part of Hamlet omitted by particular desire from the diameter at 10 feet from the butt. I am sure that Neva Scotia will continue to be a timber producing and experting country for all time to come, as our best timber lands can never be used for profitable agricultural purposes."

The writer also refers to the "marvellous productiveness" of the timber lands of Nova Scotia, by reference to a small section of 8 or colony also we have a report, dated Government of that Neva Scotia will continue to be a timber of furnishing an annual yield equal to the a timber-shipping province the most convenient and indispensable of all to this country, and its productiveness and indispensable of all to this country, and its profit of Scotia. The port of St. John is the first to the "marvellous give timber of a size larger than most that has productiveness" of the timber lands of Nova Scotia, by reference to a small section of 8 or colony also we have a report, dated Government of the spring, and the last to close in the spring, and the last to close in the suturn, as the waters of the Bay of Fundy are safe in its and blessing, expecially, to women, "said the gifted, but the naughty, Lord Byron. Sure a timber-shipping province the most convenient and indispensable of all to this country, and its present yearly cut." And he beneves that when present yearly cut." And he beneves that when a timber shall have given better access to markets, British Columbia will some suffer, that are carrying numbers of Scotia. The port of St. John is the first to the down to early graves. There is hope for open in the spring, and the last to close in the suffer. The women suffer, that are carrying numbers of them down to early graves. There is hope for open in the spring, and the last to close in the suffer. The women suffer, that are carrying numbers of them down to early graves. There is hope for open in the spring, and the last to close in the suffer. The women suffer, that are carrying numbers of the suffer and the gifted, but the naughty, Lord Byron. Suffer and indispensable of all to this countr performance; for New Brunswick is perhaps as

from a parliamentary paper, seems very unlikely, but that it should be by design, and without a word of explanation seems still more unaccountable. At all events, the fact remains.

Dr. Lyons has added a precis of the regulations that govern settlements, occupation and purchase of lands, timber limits, &c. which will be found very useful to emigrants and others; and there is a map to show the proportion of forest land remaining in each townland or county of Ontario. The book contains 35 folio pages, is published by Messre. Eyre & Spottiswoode, end may be had through any bookseller for the small price of sevenpencehalfponny - Timber Trades Journal.

ITEMS FOR RECORD.

Manufacturers who use large belts are often at a loss to decide which way of the leather will stand the greatest strain. Generally speaking, a bolt will stretch much more evenly the long way of the hide, but for actual tension, accross will stand the most; while to combine evenness of expansion and strength a hide cut diagonally, answers best. Besides imparting to large belts both these properties, a hide will cut with less waste when cut diagonally than any other method that will use the best parts of the same. Some persons, and we judge them more theoretical than practical, advocate the idea that large belts will wear longer and retain their strength better by running continuously in one direction: that is, when once used, the direction of running should never be reversed; but the closest examination fails to reveal any tendency to displacement of parts, providing the belt is not too heavily strained. This we find to be the principal source of dissatisfaction, and the cause of premature uselessness. One might as well expect to push an engine and boiler with an estimated power of four horses, the do the work of one with a six hor-e capacity, as to drive the machinery requiring a medium sized belt with one light. There are certain limits of various strengths of all substances, and when we go beyond this limit, we have violated a physical law, the pualty being a displacement of particles, an overstrain which has wrought more injury than years of actual wear; and what is true regarding belts, applies with all its force to all motive power and machinery of whatever name or nature. In basing calculations it is always best to make provisions for at least onethird reserve power, it being a fact well known to nearly everyone, that rarely, if over, less power is required than the estimate when the plant was built first on paper; but generally a little, sometimes considerable more is needed than the engineers calculated. Again, any power can be more economically transmitted with a liberal reserve than when run to the greatest capacity. Hence it is safe from a financial standpoint to have all belts and machinery at least twenty-five per cent. stronge than ever expected to use. We might carry the argument still farther, and mention the general cramped condition of buildings, warehouses, lots, and the like; for with an experience dating back no few years, we have yet to see an original plant built for the express purpose of any specific line of trade or manufacture, that was ever too large for the successful business that followed. With these as with machinery and means of transmitting power, it is safe, as a rule, to make liberal allowance for the increased demands for space when things are all in place and moving. Many an otherwise successful concern has had to sell goods in a poor market simply because they had no the neces sary room in which to store their accumulations. Others have been made the subjects of extortion by grasping owners of adjoining properties simply because, in their haste to build and get to work, they neglected to make precautions to protect themselves against the rise of property so enhanced by their own success .- Lumber Trade Journal.

Especially, to Women.

A CHAT ABOUT PULLEYS.

How do you like wooden pulleys? Don't the belts seem to take hold better with wood than with iron face? We vote for the wooden pulley, but we don't like the wooden pulley hub. A pulley built upon a great hig cast iron flange is rather an uncomfortable concern to deal with. You can't get hold of a big six inch wooden pulley. There are no arms to put a chain between, or to reach through while you are at work around it. We have got first-rate results from a wooden rim with iron arms. We used to run a planer. The feed belt kept alipping on a 24 inch iron pulley. We took a hammer and knocked the rim off. Care was taken not to break the arms or thing would be no good. Got out a lot of wooden segments. Made them not over 2-inch thick; nailed and glued up a pulley having half the width of face required and then laid on the old hub and arms. Cut the next layer of segment away & inch from the arms, and drove in a few nails to keep them from shifting out of place. The hub was centered before the nails was driven. Suppose

Put on the rest of the rim and then pour in melted brimstone around the edges of the arms. Don't be afraid that it will not hold, we have put up six foot pulleys in this manner, turned them off true, balanced them, and they run ten years and are running to-day. Don't ever run one of these pulleys without balancing, and for that matter, don't ever run and pulley, or cutter head unless it has been balanced. Very often a machinist gets left when he balances pulleys. Supposing a pulley is thick at one edge, thin at the opposite edge, and on the opposite side there are thick and thin places, but the thick places are on opposite edges of the pulleys. Now when the machinist puts an arbor in this pulley, and hangs it on the levelling horses, the pulley balances exactly. There is a thick place and a thin one at opposite parts of the circumference and they offset each other. It was caused by the molding of the pulley. By some means the cope got moved. It offset a little on the drag when the mold was closed, so there are two thick and two thin places after the pulley is turned, for the machinist balances the error as much as possible. When this pulley is started up, it tries to turn around parallel with the shaft. In fact it "wobbles endwise." There is but one way to balance such a pulley. I must have two or more pieces of iron rivited to the rim. There is but one way of finding the exact spots where they should be put and that is by running the pulley while suspended upon a pivot or point which has a bearing exactly in the centre of the bore of the hub. This leaves the pulley free to turn in any direction laterally, and the part needing weight will move in a path some distance from a plane passing through the point of suspension. The wrought iron pulleys are good in this respect, They are uniform and so run very true. A wooden rim pulley can be balanced very easily by driving in nails until the needed weight is added, but when a half pound or so is needed, it will pay to bore a hole in the maide of the rim and drive in a chunk of round iron. Don't bore the hole from outside of the pulley, we have seen plugs of iron fly through window glass from this cause.

In fitting an iron arm with a wooden rim, we don't want to stand the pulley on edge to pour in the brimstone. We could only pour one arm at a time in this manner and would run the risk of moving the hub out of centre. We will bore a 1-inch hole down into each pocket and then fit a piece of cardboard around each arm, tack it in place and reinforce with putty. We can serve each arm in that manner and then pour them all one after another. A wooden pulley should be turned down nearly to size and balanced. If it is very badly out of truth it should be nearly balanced before turning at all. Before the finishing touch is put on the pulley must be put in good balance, for it is impossible to turn a pulley nicely when one side is 1 or 11 lbs. the heaviest. Heavy pieces of wood, knots, etc., prevent making a pulley that will not need balancing. Nails are not necessary in making a wooden pulley. The very best are made without them, and are put together entirely with glue. To do this in good shape a coil is party or parties to justice. A few noteworthy At Ottawa Exhibition, 1884. It is the most economic becessary for heating the stock, and a big prose examples of t ud, tending to show that the land the best in use. Personly Pure.

or a lot of clamps for aqueezing out the gluc-Don't try to glue up a big pulley out of cold stock. If you can't get the wood hot enough to keep the glue melted, then you must put in nails or you may have an exploded pulley, and seg ments of that rim will be "too numerous to mention." Wher, we get one pulley in place, we find the belt will not run where we want it too. Something is wrong. Something is out of line or level, or our pulleys are not turned true. Perhaps one edge is larger than the other. No matter what the trouble is, hunt it up, and apply the remody right where it belongs. Don't walk up to a belt which is running two inches off on one edge of a pulley, and look at it ten minutes and then feel too tired to fix it. The next time you see that belt it has bent one edge against a hanger. The sight of it makes you lazy again and you nail up one of Slipshod's guide rods which consists of a 2x3 edging. runs so two weeks. It might have run until this time for all you cared if it had not cut the 'guide red" clean off and run off between two cioso pulleys, where it caught, broke in two, wound up and threshed itself all to pieces. Perhaps the belt pulls down ten or fifteen hundred pounds of pulleys, shafting and hangers, and you have a \$200 repair job to pay for, all through a little chronic "tired laziness." J. F. Hobart in Lumber World.

FOREST FIRES IN MAINE.

We find the following in The Industrial Journal of June 5th :-

"The recent destruction to property in Maine by forest fires, which fortunately have been extinguished by the heavy rains of the past week, bring forcibly to mind a question which has nover received half the attention, in this section at least, its importance demands. Every year in this state thousands, and in some years millions, of dollars' worth of property—standing timber, mills and farm buildings, and occasion ally entire villages - is swept out of existence industrial enterprises of various kinds bankrupt ed or seriously crippled, anitalists frightened away from contemplated investments, and the face of the landscape hideously defaced, through the agency of forest fires. Of what use is it to talk of the preservation and propagation of forests, and the waste of timber in cutting, as long as whole townships are being dovastated by the flery clement every year? Clearly, while such conditions exist, the owner of timber lands have very little inducement to cull his growth instead of shipping it, or to leave young timber standing until it shall have acquired greater value by reason of increased age; the risk is too great. Rather will be be inclined to strip his tract of whatever may be of value upon it, while yet happily the fires have left it untouched.

"The exasperating feature of these forest fires is the fact that, in nearly every instance, the most simple and ordinary measures of caution on the part of whoever is responsible for start ing them would have prevented their occurence. In 99 cases out of a hundred their origin is directly traceable to gross carelessness or negligence, and in the hundredth case to wilfullness The most prolific sources of forest fires, and the only ones which need be considered, are locomotives, brush burners, campers and sportsmen. As regards the railroads, modern science has provided appliances for arresting sparks and rendering them harmless, and the state should permit no train to be run without one wherever its authority extends. This danger, then, might be easily removed, as railroad managers are supposed to be men of at least average intelligence, and to have more or less respect for state laws. The other classes are more difficult to deal with, as many of them are ignorant and shiftless, and a still larger proportion care little for laws of any kind so long as they can violate them without fear of punishment. Nevertheless there should be laws, as in fact there are, holding the originator of fires strictly responsible for all damage caused by or resulting from his carelessness and stupidity. But these laws should be more strictly enforced by efforts on the part of the state to investigate the origin of each disastrous fire, fix the responsibility and bring the guilty party or parties to justice. A few noteworthy

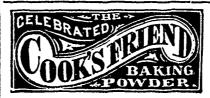
authorities mean to enforce the laws, will have a wholesome effect on reckless kindlers of bush or camp fires.

"Now that the camping out season is at hand, city sportsmen and rusticators should be made to understand the necessity of exercising the utmost caution in kindling fires for any purpose, and where one has been started to be sure the last spark is extinguished before leaving it. The laws of New Brunswick are clearer and better than ours in relation this matter, and although the rules laid down have, of course, no legal force in this state, they are sensible and simple enough to meet the appropation and be observed by every true sportsman and worthy citizen. They direct that whoever, between, May 1st and December 1st, may start a hrom or near the forest, shall: First, select a locality in which there is the smallest quantity of vegetable matter, dead trees, branches, brushwood, and dry leaves or resinous trees; second, clear the place in which he is about to light the fire, by removing all vegetable matter, dead trees, branches, brushwood and dry leaves from the soil within a radius of five feet from the fire; third, exercise and observe every reasonable care and precaution to prevent such fire from spreading, and carefully extinguish the same before quitting the place. Another section provides that any person who shall throw or drop any burning match, ashes of a pipe lighted cigar or any other burning substance, or discharge any brearm, within any forest or wood lot or other place where there is vegetable matter, shall be subject to the penalties imposed by this act if he negligently omit wholly to extinguish, before leaving the spot, the fire of such match, ashes of a pipe, cigar, wadding of the firearm, or other burning substance. It is further provided that every person that may be in charge of a party requiring camp-fires for cooking or other purposes in the forest shall provide himself with a copy of the law and read and explain it to his compan

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Communications intended for insertion in the Canada LUMBERMAN, must be accompanied by the name of the writer, not necessarily for publication, but as a guarantee of good faith. Communications to insure insertion (if accepted) in the following number, should be in the hands of the publishers a week before the date of the next issue.

The CANADA LUMBERMAN is filed at the Offices of #RESES SYNTEL DEACON & Co., 164 Leadenhall Street, London, England, who also receive advertisements and subscriptions for this paper.

PETERBOROUH, Ont., JUNE 15, 1885.

A LOCAL paper says that the Grand Rapide furniture manufacturers saw 20,000,000 to 25,000,000 feet of hardwood a year.

THE Port Discovery, W. T., Mill Company, has lately been buying logs on Samish islands, Puget sound, at \$5 a thousand.

It is stated that a Duluth lumber concern is figuring on shipping 4,000,000 feet of lumber to Buffalo, N. Y., at a freight rate \$2 thousand.

RATHBUN & Co.'s mill opposite Belleville broke the driving wheel on June 12th, and was compelled to shut down for some days. The mill employs 75 men.

The price of hemlock bark in Milwaukee dropped recently from \$7.50 to \$6.87½, and the Ludington, Mich,, buyers, reduced their paying price from \$5 to \$4.50 a cord.

THE first lot of lumber to arrive at Selkirk, Man., this season, from Lake Winnipeg, was towed in by the steamer Ogema June 6th. It was destined for the Winnipeg market.

DURING the present season 800 car loads of square timber has been shipped from points on the Buffalo, Goderich & Lake Erie railroad, and the Grand Trunk west of Stratford, most of it going direct to Quebec direct.

Fire in the forest between Bristel station and Tawas lake, in Michigan, consumed considerable pine, tamarac and cedar on a tract called the Dole pine lands.

The schooner O. M. Nelson, lumber laden, from Ludington, Mich., collided with an unknown sailing craft, in mid lake, off Sheboygan, on the night of June 16th. The jibboom, bowspirt and cutwater of the Nelson were carried away, with all her head gear. By ngging a temporary bowspirt the disabled vessel worked down toward Milwaukee, got a tug, and was towed into that port.

THE Big Mill at Descronto cut 2,841 logs on Tuesday, the largest cut the mill over made.

THE saw mill destroyed last year by fire at Parry Harbor, Ont., has been rebuilt and is once more running. It employs nearly 300 hands.

THE Parry Sound Lumber Company have transferred all their lumber interests in Conger and Cowper townships to the new Conger lumber company.

It is said that the standing timber greatly suffered by the recent forest fires in Michigan, and that in some instances saw logs, partly covered by water, lying with one end in a stream, were burned so that nothing remained above water but the charred end and a heap of ashes on shore.

A San Francisco paper says that the claim of the Truchee Lumber Company that the altitude of their logging camp, 7,500 feet, is greater than that of any other in the world, is overshadowed by that of the Great Sierra Mining Company, which has a logging campand mill on Lee Vining creek, Mone county, at an altitude of 10,500 feet.

The Chebogan Lumber Company, with mill at Chebogan, Mich., is driving piles for increased booming ground at that point. This has become necessary to accommodate the Spanish river, Ont. logs which will soon begin to arrive. The company has purchased limits including 80,000,000 to 100,000,000 feet of pine in Spanish river district, and intends to tow the logs to Cheboygan for sawing, thus avoiding the duty on lumber.

Norman's Electro Curativo Belts are the finest remedy known to medical science for the permanent cure of neuralgia, sciatice and all diseases arising from nervous weakness. Testimonials of cures affected on residents of this vicinity can be obtained from Mr. A. Norman, medical electrician, No. 4 Queen street east, Toronto. He has lately invented a new and more perfect appliance than any yet produced, a description of which is given in the advertising columns. His electro curative truss is unequalled for rupture. Write him.

WE have had a visit from Mr. Playfair, of Sturgeon Bay, who is using one of the twin engine steam feeds made by the Wm. Hamilton Manufacturing Company, of Peterborough, and he reports that it is giving complete satisfaction and is enabling him to cut 15 M more lumber per day than previously by the friction feed. He thinks it uses less steam, and, therefore, must be a great improvement on the old feed. A description of this machine and an illustration of it will be found in the last issue of the CANADA LUMBERMAN and is also advertised in the present issue.

A BIG BOILER.

The big boiler which was being built at the Wm. Hamilton Manufacturing Works last winter, previously referred to in this paper, is now completed and the parts put together. It stands on a railway track in the boiler shop in the same position as that when the drilling was done and is daily visited by numbers interested in this kind of work. It is eight feet in diameter, two corrugated furnaces, one hundred and fortyseven three-inch tubes and is twelve feet long. The furnaçes are large enough to allow a person to pass through one and out of the other quite comfortably. While under construction it successfully passed the 100 pound pressure examination. Tule is the largest boiler ever turned out of these works and one of the largest ever built in Cunada. It was made for the Georgian Bay Lumber Co.'s steamer Magnetewan and will cost approximately \$4,000. In building it a special drilling machine was built and the holes drilled, not punched, through the several thicknesses of iron composing the shell. It was built under the superintendence of Mr. Richard Reeves, foreman of the boiler -h -p, and speaks louder than words as to his ability as an architect in this line. It will remain in its present position for several days.

BELTING.

W.R would call the attention of proprietors of saw mills and other mills to the advertisement in another column of F. E. Dixon & Co., of Toronto, the well known manufacturers of leather belting. Ever since the establishment of this firm, in 1872, it has been their steady aim to furnish at a reasonable price at least as good belting as can be procured from any other makers, whether in the United States or elsowhere, and the steadily increasing demand for their famous Star Rivet Belting is a sure proof of the excellence of their goods. At the Provincial Exhibition held in Ottawa, in 1875, the first prize was awarded to goods of their manufacture, though placed in competition with bolting manufactured by Mosers, J. B. Hoyt & Co, of Now York, and other makers; and theirs is the only belt manufactured in Canada which obtained a diploma and medal at the Centennial Exposition, at Philadelphia, in 1876 They are specially noted for the good quality of their large double driving belts which cannot be surpassed for easy running or durability. There are several of these belts in one of the largest saw mills on the Ottawa river which have been doing steady work for nine seasons and are apparently good for at least as many more. They can also point to a fourteen inch double driving belt which has been in steady uso'in a large planing factory in Toronto since December, 1873, and seems good for several years yet, besides a large number of other belts of various sizes up to 30 inch, which have been in use for several years and are giving perfect satisfaction. Their recently patented Lap Joint, which entirely prevents the turning up of the ends of laps after having been in use a short time, particularly when running on small pulleys, is an improvement which will at once commend itself to all who use belting. The Messrs. Dixon & Co. are constantly adding to their plant and machinery, and are determined to spare no effort to keep abreast of the times in this particular line. They are at present ongaged manufacturing a 30 inch double driving belt, 90 feet in length, for the foronto Electric Light Company.

BAFTS ARRIVED.

The Quebec Chronicle says that the following rafts have been entered at the Supervisor of Cullers' Office, Quebec since June 1st:

June 6-Chas, Bertrand & Co., birch, Tanguay's wharf.

Timmons & Gorman, white pine, etc., Cap Rouge.

Stokes & Kelly, walnut, Hadlow cove. D. D. Calvin & Co., oak, etc., sundry coves. June 9-M. O'Shaughnesy, deals, Nicolet. Price, Bros. & Co. deals, Windsor mills.

P. R. Dobell & Co. (Flatt & Bradley lot), clm, &c., Dobell's cove, Sillery. June 10-Allen Gilmour & Co., white pine,

Indian cove cast.

Cook & Oibbons, elm, etc., St. Michael's cove.

June 12-Cook & McGibbon, elm, etc., St. Michael's cove.

Allan Gilmour & Co., white pine, &c., Indian cove east.

June 16—Smith, Wade & Co., ash, etc., sundry coves. June 17—Tardiff & Trudel, birch, Commis-

June 17—Tardiff & Trudel, birch, Commissioners' wharf.

RAPTS ENTERED AT THE SAPERVISOR OF GULLERS'
OPPICE.

June 18--T. Buck, white pine, oak, etc. Woodfield and Ottawa coves.

D. D. Calvin & Co., oak, pine, etc., sundry

coves.

The Quebec Timber Company(Limited), birch,
Commissioners wharf.

Rafting Timber.

This season there has been a large quantity of timber rafted at the dock, Belleville, and about fifty men are now employed there. One dram for Mr. Thompson will leave for Quebec as soon as one of Balvin's tugs arrive and the the Collin's Bay Rafting Company with twenty men are making preparations to raft his drams of timber which is expected here from Georgian Bay on Saturday. Mr. Buck is also carrying on operations in this line as busily as ever.—Intelligencer, June 25.

LIVERPOOL.

The Timber Trades Journal of June 13th says: It might be assumed, the Whitsuntide holidays having become a thing of the past, that business would have shown some signs of life and animation, but, so far from this being the case, it la doubtful whether it really is as good new as before the vacation. The Ministerial crisis may perhaps affect trade in some degree, but it is difficult to see how it could depress it to a lower depth than it now touches.

The late opening of the shipping season in tae St. Lawrence ports, by delaying the arrival until late in the season, will give an opportunity of present stocks being worked down, but the deliveries are not what one would like to see going on, and do not make that marked impres sion which is so desirable. The local interest in the Manchester Ship Canal Bill keeps up its intensity in all the surrounding districts which hope to benefit by the scheme if it be carried out. One point that has always been made much of by the promoters is that vessels would demand little, if any, extra rate of frieght for carrying the goods up to Manchester, thus saving all railway or other transit charges. Such an assumption carries with it little common sense in the view of practical men, and has just received a severe blow in a petition presented by the Liverpool Steamship Owners' Association, representing about one million tons of ocean going and coasting steamers. In the document the petitioners say, "This is a com plete error," and then proceed to point out by the danger and delay consequent upon the journey through the canal, increases in rates of insurance would be demanded, and the loss of time, together with other contingences, would come to considerably above £100 per day per ship.

A strong committee of the House of Commons with Mr. Forster as chairman, will proceed to take evidence next week, and the opposition is likely to be quite as strong and more numerous than before.

LIVERPOOL TIMBER SALES.

On Friday last, the 6th inst., Messrs. Duncan Ewing, & Co. offered the fine cargo of Apalachi cola hewn pitch pine timber just landed ex Harold, and hough there was little disposition to bid for it at the commencement of the sale, it was eventfully cleared up.

Saveral parcels of East India teak planks were also offered, but did not elicit competition, and they were consequently withdrawn; but it is reported several lots were sold immediately afterwards by private treaty.

On the same day Messrs. Farnworth & Jardine offered two cargoes of St. John, N. B., spruce deals in store, of which a fair proportion was sold; but prices showed little variation from the recent quotations, the brokers holding these goods with a firm hand.

WINNIPEG.

The Commercial of June 16th says: There is no word as yet of the mills starting this season. Business is still very quiet and the season's trade is not likely to amount to anything, while dealers seem to be satisfied to look upon this summer as somewhat of a blank. No outragous cutting is reported, but cash buyers can make good puschases, altogether this trade is not in a satisfactory state at present.

QUEBEC.

The Chronicle of June 20th says:—The timber market is quiet, but the sales reported during the past week are at fair prices, and should be satisfactory to the producers. In white pine some five or six rafts have changed hands. Old rafts of 41 to 43 feet, at 19 cents. A choice new raft of 56 to 57 feet at 29 cents. And one or two other rafts at prices which have not transpired.

DEALS.— Spruce—About 40,000 standard were disposed of as follows:—

\$45.00—1st quality, 3-inch and 2-inch sprace \$27.00—2nd """"

\$23.00-3rd

D. K. RAMEY & Co.'s mill, at Ramey, Pawas lately burned, with 200,000 lath, the 3,000,000 feet of lumber at the mill being saved Loss, \$12,000; insurance, \$7.500.

ST. CATHARINES SAW WORKS!



ALL SAWS FULLY WARRANTED

ST. CATHARINES. ONTARIO.



Sole Manufacturers for the Dominion of Canada of the

All Our SAWS are now made under the "SIMONDS" PATENT PROCESS.



F.E.DIXON&CO.

Manufacturers of Patent Lap-Joint Star Rivet



70 KING ST. EAST, TORONTO.

To Mill Owners, Manufacturers & others requiring Leather Belting

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

RECENT PATENTS.

The following list of patents, relating to the lumbering interests, granted June 16th, 1885, are specially reported by Franklin H. Hough 925 F. street N. W. Washington, D. C : 220,217.-Log loader-J. Campbell, Muske

320,039.-Saw drag-J. W. Anderson, Bosco-

bel, Wis.

320,086.-Saw drag-J. A. Owens, McDonald,

ISSUED JUNE 23.

320,591.—Log turner—D. J. Saltsman, Browton, Ala.

320,681.—Saw, circular—W.J. Perkins, Grand Rapids, Michigan.

320,747. - Stave jointing machine -H. D. Barnes, New Haven, Conn.

320,574,- Wood grinder-E. J. Millard, Marrinette, Wisconsin.

QUEBEC CULLERS' OFFICE.

The following is a comparative statement of Timber, Masts, Bowsprits, Spars, Staves, &c, measured and culled to date :-

		••	
	1883.	1584.	1585.
Waney afte Pino	732,705	434.542	183,164
White Pino	183,659	373,225	450,083
Red Pine	23,694	23,713	12,853
Osk .	300,899	182,929	563,694
Elm .	83,561	194,277	80,295
Ash	24,359	82,153	88,999
Basswood	• • • • • •	205	•••••
Butternu	199	811	70
Tamarao	88	1,851	36
Birch & Maple	128,016	177,651	251,730
Masta & Bowsprits	—pcs	—pos	—pcs
Spars	— pcs	82 pcs	- pcs
Std. Staves	67.1.3.10	16.6.2.22	39.0.3.28
W. I. Staves	13.9.2.2	69,2,1,17	64,2.1,17
Brl. Staves	21.4.0.4	2.7.2.10	2.7.2.10
	JAM	ES PATTO	N.
Quebec, June. 7.		Supervisor	

ECONOMY IN RUNNING A BOILER.

About the most important element entering the economy of a boiler, says a contemporary, is the manner in which it is run. The matter of proper coal burning it vastly more difficult than the mere stopping, starting and oiling of an engine, and calls for some one of judgment and mper r intelligence to do it properly. Many

suppose that the one thing necessary is to heave

TIMBER L

 \mathbf{WANTED}

On the North Shore of Lake Superior or Georgian Bay. Send particulars to

THOS. McCRAKEN.

Lumber and Commission Merchant.

2 Court St., Toronto.

error. Some men appear to be born firemen, others can never learn to fire properly. And it is not always that the best men get their deserts, which is unfortunate and discouraging. We have in mind now a man who fired, unsided, a battery of thirteen boilers, and the peculiar thing about it was the fact that he never seemed to be doing anything at all. He did this for several years, and took it as a matter of course Finally he said to the superintendent of the concern that he could burn half screenings if he would hire another man, a laborer, to wheel them into the fire room. The was done, and resulting in a large saving in the cost of fuel but the treasurer of the establishment happened around one day and found the extra man at work and immediately raised a row about the expense of the extra man, and insisted that they couldn't stand it. Very n. turally the fireman couldn't stand that, and he put on his coat and went home. Not long afterward we visited the place and found four men were required to do the work. This was a clear case of waste.— Boston Journal of Commerce.

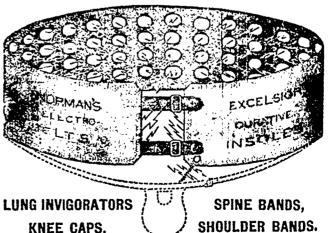
On June 22rd Robert Elliot, recently re. turned from the Nile, with two others, were passing up Rideau street and stopped in front of a peanut store kept by an Italian named Pennett. They bought some nuts from the Italian, but had some words with him as to the price and commenced to wronk his stand, when the Italian struck Elliot over the head with a club, knocking him unconscious to the ground, Elliot was taken to his fathera's hotel on the By ward market, where he died this afternoon from the effects of the blows. Pennett has been the coal on to the grates, but this is a very great larrested



ONTREAL, QUE.

rman's Electro-Curative Belt!

4 QUEEN ST., EAST, TORONTO.



This Belt is the last improve ment and the best yet developed Curative Appliance in the world for

INDIGESTION.

NERVOUS DEBILITY,

RHEUMATISM.

and all diseases of men, and is a grand remedy for Female Complaints also. Ciroular and con-sultation free.

A. NORMAN, Medical Electrician

4 QUEEN STREET EAST, TORONTO.

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

TENDENCY OF BUSINESS.

In order to give any reliable indications of the future of business, we must first review the past, and esrefully consider the present. The whole business world seems at this time to stand dazed, as it turns from the magnificient realizations of the "venty odd years just ended to the contemplation of the circumstances that now surround it and endeavors to penetrate the obscurity that lies in the immediate future.

The business of the country during the 25 years provious to 1861, was conducted by a class of men who entertained very different views of its objects and ends and the purposes of life to be attained by its prosecution, from those who are now engaged in the strife of commercial affairs.

They embarked in it and looked upon it as an honorable avocation intended to meet the wants of the communities in which they lived, and as an honest calling by which to maintain themselves and those dependent upon them, and if by economy, judicious care and persistent application, at the end of twenty-five or thirty years they were found to have accumulated an estate of fifty or one hundred thousand dollars. they were counted among the rich men of the and. A clear parly saving of three or five thousand dollars was looked upon as a rapid accumulation of wealth.

The same modesty of expectation prevaded their employees. A chief clerk, en a ralary of four or five hundred dollars a year, attended to his business from early morning until late in the night, and managed by careful economy to lay by a good share of his earnings until able to join his employer, or embark in a business of his own. So with those in minor positions, salaries ranging from on to three hundred dollars per year enabled them to not only supply all their wants, but to lay by for the contingencies of the rainy day of the future.

And they all worked until the work of the day was all done, which was the only circumstance that limited the hours of labor. Fow unneces sary wants existed to stimulate unfair methods of business to meet their demands. At least, this was the general condition of affairs, and men retired from active business conscious that they had acquired their competency in an hon orable way, and in the possession of unimpaired morals and minds.

Some of this generation of business men are still living and still engaged in affairs, but most of them have departed, and the few who remain find themselves among a generation of merchants whose expectations in business and whose personal wants are widely different-be ing far more extensive and imperious than those that prevailed in their time.

The epoch we are now to consider, which was entered upon in 1861-62, and has been rapidly reaching its end in 1883-84, covering some 20 odd years, may be safely asserted to have been the most prosperous era of business that has over fallen to the lot of a nation to enjoy, as far as history extends. There sprang up to meet it a new business Young America, who, seizing the reins of affairs, soon left the conservative fathers away back in the rear, straining their eyes to discover where and how the new depar ture in this wild race would end. But circumstances were all in their favor, and the headlong course went unterruptedly on. Vast fortunes were made in a year. Enterprises were undertaken involving millions, by men without a dellar, and millions were found to complete them; and when done millions more were made by stocking and solling them, and they were still found to pay. Great corporations were ashamed to declare dividends upon the actual cost of their schemes, but watered and watered and watered, to bring their profits down on their face to the comprehension of conservative men. All business was rushed in the same way. Manufacturers were unable to make goods as fast as they could be sold at their own price, and customers had to wait their turn to get them. The jobber could not find as many goods as he could find customers to take off his hands. and the consumption seemed to be without end. The more recklessly the dealer went in the more fertunately he seemed to come out, and steady going conservative minds found no place in the conduct of affairs. Young America had at the foot pushed them saide, and the "lightning express" last week,

of this era had the exclusive right of way on the road.

In mercantile matters, salaries had steadily incressed until one or five, or even ten thousand dollars, was no extraordinary thing, and there were very few employees who did not receive from \$500 to \$1,000 per annum in the lower grades of mercantile work.

The present generation of business men have contracted habits of personal expense that would entirely consume the profit of a first class business house forty years ago, and all their business education having been acquired during this period of inflation they are entirely unfitted to resume the ways of old. But the old ways are fast coming upon them-in fact, we may say, they are already here. The year 1884 was an anomaly in all its surroundings. Plenty absolutely burdened the land. There was no end to the supply of human food, or of anything elso that contributed to meet the natural or acquired wants of mankind. Scores of millions of money were lying idle, for no one dared venture to move. Prices of food and all manufactures were never so low. Goods were offered in any quantity by the manufacturer and jobber at a mere margin, if indeed, wh any profit at all, for of late the race has been to see who can do business with least possible percentage of gain. And all this time the expenses of business have remained as high as ever before. The exigency of the case seems to be an endeavor to continue a business which it costs eight or nine per cent, on all sales to run, at an average profit of six or eight per cent, and pay personal expenses besides.

Admitting that this cannot be done, the question arises what can. Can the expense of carrying on business be diminished? Can per sonal expenses be cut down? To answer these questions in the affirmative is to say that the present generation can at once go back to the ways of their fathers which they can not.

Experience is admitted to be both a dear and effectual teacher. Mankind, as a general statement learn little but what is burned into them by bitter experience. The gambler reforms when he is unable to borrow to stake on the pile; the speculator when he is so totally broken that he is unable to speculate more; and the business men of the country will learn conomy and wisdom when their means fail them to continue on as heretofore. We have got to come down from the stilted past in some way or other—then why not at once do it like men t

We can see the large corporation of the country vainly attempting to pay dividends on treble the value of their plant, and the business men trying to increase their capital, while drawing out ten per cont. to meet its extravagant expenses, though their best endeavors can only nake it carn five.

The business of the country is now in the hands of a generation who have been educated in the midst of inflation, and never knew what normal times were. Their expectations are wild and extravagant and their wants unnaturally large.

In this grave emergency there are but two ways of solving the problem. If we reduce the capital of all our undertakings to the actual value of the plant, and charge only such a tariff as will yield a fair dividend thereon-if we curtail our personal expenses in the same sensible manner, and reduce all taxation to the actual needs of the times, the grave question will be solved, and we can all go on living like honest and sensible men.

But will this wise course be taken? Let veryone answer for himself,

On the other hand, as indicated already in this paper, the question will solve itself. Let the "lightning express" go on until the fuel and steam are exhausted—until vast numbers of our business men reform their extravagance because they find themselves without the means to further compete in the race, and then-well, then, we will all have learned wisdom at the expense of dearly bought experience, and those who are left standing will move on. - American Exchange.

THE schooner Maggie McRae loaded timber at the foot of 40th street for Kingston, Ontario,

LUMBER TRADE IN AMERICA.

The American correspondent of the Timber Trades Journal gives his views on the trade on this side of the Atlantic in a recent issue of that paper as follows:

The enormous cut of logs during the long cold, and favorable winter just passed promises to furnish us with a cheaper supply of lumber than we have had for several years. There is a good deal of talk about better prices and more active demand, about combination and restriction, but the better opinion of well informed lumber dealers here and elsewhere is that the supply is too far in excess of the sesson's probable requirements to reasonably expect any improvement in prices. The furniture manufacturing establishments, the saw and planing mill establishments, and the establishments running band saws and similar wood-working machinery are all quite busy, turning out for the most part cheap stuff to fill large orders growing out of the activity in building throughout the country.

The low prices for lumber are not discouraging investments in timber territory. In fact, some of the oldest lumber manufacturers have for the past year been given a good deal of quiet and careful attention to new lumber territory, particularly in the south and west. Throughout the greater part of the north the forests are practically exhausted. The restricted supplies are in the hands mostly of small operators. The opportunities that are to be secured are to be secured are found only in remote sections just coming into notice and within reach of the market under the railroad improvements in progress. Among these lands attracting a good deal of attention are the cypress lands of the south. Two companies have been formed to purchase sections of cypress territory and to establish markets for the manufacture of wood for shingles, for cooperage purposes, for furniture and interior decoration and finishing purposes, and also to supply cypress when wanted for more extended uses such as shipbuilding, if possible. Cypress has wonderful lasting proporties. It is cheap and beautiful, it is easily worked and makes good sashes, doors and blinds. The disappearance of oak is directing attention to cypross. Oak, which a few years ago was comparatively abundant, is now getting scarce, much of which of late years has gone into lake crafts, for cars, houses, and a variety of purposes which have in a comparatively short time exhausted the never very extensive supply. There are oak districts here and there throughout the States, but the supply is limited, and, considering the competition which other kinds of wood are offering, it is less important than it was before the recent lumber developments.

Throughout the Northwest nearly all the mills are working full time, and it is now evident that an immense supply of lumber will be piled up in view of the heavy distribution in Navigation has been fully opened throughout the lake regions, and a great deal of building activity is reported. The reports from Stillwater, Minneapolis, Chippewa, La Crosse, Saginaw, Eau Claire, and other prominent lumber centres of the Northwest are of a favorable character, and show that the supply of lumber will be exceedingly large. Heavy sales are being made. This season's distribution will be much larger than last year. Railroad requirements are not heavy. The Minneapolis supply of sawed lumber for this season will be 100,000,000 feet. Taking the twelve surrounding centres the supply will reach 525,000,000, or a little over 100,000,000 in excess of the supply for last year. A full representation of builders and manufacturers from every Mississippi river manufacturing point was present at the Minneapolis meeting held recently. The agreement was entered into to advance prices from 50 cents to \$1.50 per thousand feet according to grade. If this advance prove successful another advance will be attempted at the convention to be held at Eau Claire on the 21st inst. It is observable not only in the Northwest, but in Pennsylvania and along the Atlantic coast, that there is a disposition among lumber dealers and manufacturers to discontinue the cutting of prices, to advance prices, and to observe a higher code of recognition. It is certainly to be hoped that still several miles from its destination.

the lumber interests throughout the States will be successful in their efforts to obtain better prices, but they have serious difficulties to contend with. In some portions of Pennsylvania the banks have exhausted all their available resources in carrying their customers, and the customers are now at their wit's end. competition of the lumber trade has been excessive. It remains to be seen whether the existing combination will be of much benefit, It is probable that during the present season a good deal of railroad will be built into new lumber regions in order to be independent of the streams which have heretofore been depend ed upon to haul logs to mills. Owners of southern timber are endeavoring to induce manufacturors to establish mills where they can dispose of their lumber supplies. A good deal of capital is being attracted in that direction. The wholesale dealers in our large cities are complaining, and with good cause, of the custom of large contractors to deal with first hands. Builders of 25 or 100 houses find it cheaper to buy at wholesale in the South and Northwest than to depend upon local wholesalors.

At Chicago stocks of lumber and timber on hand April 1st wore 438,000,000 feet, against 370,000,000 feet April 1st 1884. The receipts since January 1st to May 7th were only 100, 000,000 feet, against 208,000,000 feet for the same time last year; a decrease of 108,000,000 feet. The supplies of shingles, lath, pickets, and cedar posts aggregate about the same.

The hemlock lumber interests are in session at the present time at Williamsport, and expect to succeed in perfecting an organization which will allow moderate margins. The Southern lumber manufacturers are complaining of low prices, but crowd northern markets with supplies. Several new milis have recently been contracted. and the woodworking machinery establishmen. are nearly all full of work, but, as in all branches of manufacturing, the iron and steel markets are dull. Railroad building is far below last year's. Prices or everything have recoded to limits which forbid further reduction. The feeling in manufacturing and financial circles is that the bettom has been reached. The railroad companies have been quarreling over traffic all the spring, and have finally patched up their difficulties to result in hostilities again.

TRIALS OF A LUMBER FIRM.

In the Port Arthur Herald of a recent date there is an account of the difficulties encountered by the Duluth Lumber firm of Glass & McEwen in their attempt to dispose of the carge of the schooner Erin. The Erin is a Canadian boat and was loaded by Glass & McEwen, at Heron Bay last fall, with lumber for the Port Arthur firm of Graham, Horne & Co. In attempting to cross the lake she ran aground on Keweenaw point, staving several holes in her bottom. But she was afterwards pulled off and taken to Lac la Belle where the holes were patched and she laid up for the winter. This spring her carge was sold for delivery to Ashland parties, but the Erin being a Canadian craft the sale had to be abandoned, as "no foreign" bottoms are allowed to clear direct from one American port to another. Some other disposal of the cargo had to be made and this time it was sold to a Winnipeg firm to be delivered at Fort William for shipment by rail. The American wrecking tug, Kate Williams, was hired to tow the Erin over. But on arriving at Port Arthur the tug captain claimed that the water between there and Fort William was so shallow as to endanger the patches on the Erin's side and he refused to proceed further unless quaranteed that in case she should spring aleak she would be repaired and made as good as new at the expense of the consignees. It was suspected that under such circumstances the Erin would hardly fail to run aground and the proposition was refused. An attempt was then made to have a Canadian tug tow the Erin up to the fort, but the Captain of the Williams refused to consent unless the same guarantee was made, and so that project was also abandoned. As a final solution of the difficulty the lumber which had had so much difficulty in getting to market was dumped off othics in business than has heretofore obtained on Mark's wharf at Port Arthur where it lies,

Chips.

HEMLOOH bark is worth \$5 a cord at Ludington, Mich.

THE Canton, Me., pulp mill consumes 1,500 cords of pulp a month.

THE Flat river Michigan, drive, will this year contain 60,000,000 feet of logs against 200,000, 000 feet last year.

THE Eagle mill (Runbun & Co.), Prince Edward County, resumed operations on June 17th after being idle a week on account of a broken wheel

LUMBER is being carried from Duncan City, Mich., to Tonawanda, N. Y., according to a Cheboygan paper, at \$1 a thousand. The distance is about 600 miles.

THE Hudson Lumber Company, of Hudson, Wis., recently purchased 100,000 feet of logs, of Donavan Brothers, at \$7 a thousand, delivered at Hudson.

Mr. Eaton's shingle mill, in Ottawa, was destroyed by fire early on June 18th. It was the work of an incendiary. The loss is about 81,500.

THERE are now but one saw mill and five shingle mills within a radius of five miles of Edmore, Mich., whereas five years ago there were five times that number.

THE Minnesota & Ontario Lumber Company has about 20,000,000 feet of logs at Fort Francis, Lake of the Woods, Ont., which P. Nester has contracted to boom for the company's mill at Rat Portage. A raft of 7,000,000 has already been taken out.

A French technical journal states that one eighth of the entire German railway system is laid with metallic ties, and one-half of the new lines in that empire are supplied with them. In the future metallic ties will be used in Belgium. Thus, in Europe, iron is taking the place of wood in that important part of railroad construction that has always consumed a vast amount of forest growth.

THE Grand Rapids Furniture Association has 61 members; a capital aggregating \$8,525, 000, and employs 5,728 men. The annual sales are nearly \$7,000,000, and 25,000,000 feet of hardwood lumber are cut up annually.

LOGGERS IN THE REDWOOD REGION

Of the men engaged in logging it may be said that they are strong and hardy, but not so inured to hardship as their brothers of the Northern pineries. Here the work is done in summer time, beneath fair skies and in a bracing and salubrious atmosphere. The strong sea breeze penetrates the deepest forests and lowers the temperature, so that it is seldom uncomfortable, even at midday; while at night two or more blankets are alway required. The life they lead affords but little variety. They are early risers, hence retire early, as there is nothing to keep them up but the recreation of a game of cards or the telling of threadbare atories. But on Sundays the majority go to the mill town and have a "good time," as they call it, which too often means a drunken orgie.

Many of them have been seafaring men, and retain the habits of their former calling, one of which is that their wages are perpetually mortgaged to some rum seller. Work in the redwoods is full of risk, and the accident insurance companies have agents who visit all logging camps to solicit patronage. Statistics show that the insurance companies are away behind on the redwoods, the annual losses paid being three or four times in excess of the premiums received.

But, although many of the woodsmen are improvident, there are instances where, by close economy and union of purpose, men who began "swampers" have grown to be mill owners. The opportunities for "making a stake" by speculation in timber lands have been numerous, the pre-emption and homestead laws of the United States having been liberally taken advantage of by woodsmen. Quarter-sections of land, costing the pre-emptor \$200, have been sold for \$3,000, \$4,000, or \$5,000, when available for or near a mill site.—Mendicino Cor. New Orleans Times Democrat.

"POET-TREE."

Oak, Caroline! fir yew I pine; O willow, will you not be mine? Thy hazel eyes, thy tulip lips, ways, all larch, have turned my head. All linden shadows by the gate. I cypress on my heart and walt Then gum I beech cherished, Caroline, Wo'll fly for elms of bliss divine, O, spruce young man! I cedar plan-Catalpa's money if you can, You re sumach ash, but not my heart; You're evergreen so now depart; You'd like to poplar—that I see-Here s cal you li see hemlock the gate . He maple lightly say " tis late!" Mocust that lover, while he flew From clim before that parents shoe He little thought a dogwood bite Would make him balsam much that night, Hawthorney path he travelled o'er. And he was sick and sycamore.

Catarrh-A New Treatment.

Catarrh—A New Treatment.

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

Now's the Time Collect and Ship them to be

RE-CUT

BEFORE THE SPRING OPENS.

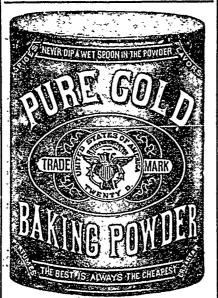
DO NOT WASTE

Your Money on Buying new, when the old ones will do. We pay Freight one way.

SHIP THEM TO-DAY TO THE

ONTARIO FILE CO

150 FRONT STREET, EAST, TORONTO. Agonts Wanted Everywhere.



For PURITY, WHOLESOMENESS, And STRENGTH It stands without a Rival!

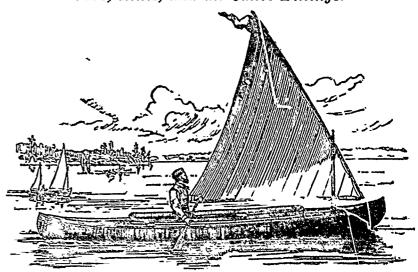
Pure Gold Manufacturing Co. FAIRPORT, N.Y., and TORONTO, ONT.

The Ontario Canoe Co., Limited

PETERBOROUGH, ONTARIO.

Manufacturers of all kinds of PLEASURE, FISHING and HUNTING

Patent Cedar Rib Canoes, Patent Longituinal Canoes, Basswood Canoes, Folding Canoes, Paddles, Oars, Tents, and all Canoe Fittings.



Gold Medal, London Fisheries Exhibition, 1883. J. Z. ROGERS,

Send 3 cent Stamp for Illustrated Catalogue.

President and Managing Director

Canoes for Lumbermen, designed to carry any amount of goods and chattels and strongly built, made to order on short notice.

TORONTO

Manufacturers and Wholesale Dealers in Machine and Illuminating Oils.

Our Celebrated "Lardine" Brand

, & Unexcelled by any other Machine Oil on the Marke.

MILL MEN WILL SAVE

By using "LARDINE." Wears equal to Caster Oil and ONLY COSTS HALF THE PRICE.

CYLINDER And other Oils, all of splendid quality always in Stock. & Prices. etc., on application to

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H. WILLIAMS,

${ t SLATE} \& { t GRAVEL} \ { t ROOFER}$

MANUFACTURER OF AND DEALER IN

Tarred Felt, Roofing Pitch, Sheathing and Building Papers, Carpet and Rosined Waterproof Paper, Ready Roofing, &c. MAll orders promptly attended to at LOW PRICES.

> H. WILLIAMS, 4 Adelaide Street East, Toronto

16114

Market Reports.

TORONTO.

From Our Own Correspondent.

JUNE 23.-Trade has again been completely paralyzed by the strike of the masons' laborers Not the sound of a trowel to be heard, and retailers have their men and horses nearly idle. How long this state of things is to continue it is difficult to say. The action taker by the masons themselves in refusing to take material from any men not belonging to the union has exasperated the master builders to no small extent, and one thing is certain-many contracts that were coming out have been cancelled, and should the men gain their point, sufficient time will have been lost before doing so, to absorb all the extra wages they want. At the close of the building season the lumber business is cut up by excessive competition that this add tional stroke will be felt to the close of the season Foronto with its suburbs is said to contain 100, 000 inhabitants all told, and taking into account the commission men we have at the present time a lumber firm for every 1,250 of our population; this will give you a fair idea of the amount of competition now existing in the lumber trade. Men who scarcely know a mill cull from a clean plank are competing for the trade with men who have spent clifetime in mastering all the details of this hazard was business, and one in which 99 out of every 'un dred which engage in it fail to succeed.

It is uscless to attempt to quote you prices as trade is at present conducted, each man seems to have one of his own, and nothing certain except a sure proportion of bad debts.

Over our docks up to the present time there has passed 9,427,000 feet, most of which went to Oswego. Of this amount the firm of Christie, Kerr & Co. have shipped 5,340,000; Wm. Hall & Son, for various parties, 2,833,000 Donogh & Oliver, 2,958,000, and other small lots 187,000. During the next month shipments will be light until the new cut is fit to move. Most of the good lumber passing over our docks has been purchased by Messrs. Rathbun & Son, of Deseronto, and is handled by their agents, Hall & Son. I hope by the time my rext letter becomes due that I may be able to give you a brighter account of the state of the retail trade here.

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MONTREAL.

From Our Own Correspondent.

JUNE 23.-Trade for the past two weeks has been very dull and the scather much against business. The spring trade is over, and there has also been a lull in the building demand. Altogether we cannot give much of a favorable report. Arrivals by the canal have been fair and stocks generally are full and well assorted In Quebec the market has been pretty active for white pine and a good deal of hardwood to arrive has been sold. Prices here are about stoady as under ex yard, but we quote lath a little higher:-

	ART 62/3 18 . 1
Pine, 1st quality, & M	See Children Co
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Pine, 4th quality deals, W M	10 664.17 63
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Spruce, * X	10 00-413 00
Hemlock, # M	0.00410.00
31680306g* 4 M. v.	29 00-125 00
Ash, run of log cuils out, VM	
Bam, " ** ** ** ***	12 03×14 CO
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SHIPPING.

There is nothing doing in the way of shipping and shippers are now only filling old engagements. The only vessel chartered since our last report was the steamship Minethyst, for Liverpool, at 50s. There has only been 23 vessels chartered for South America this season including the four whose clearances are noted below, no new engagements transpiring. The following are clearances at the Custom House since our last report: SS Milanese, for Liver pool, 18,658 pcs. deals and 4.4 ends; per SS Dracona, for London, 4,543 deals; per SS Lake Manitoba, for Liverpool, 2,800 deals; per SS Grecian, for Glasgow, 15,347 deals; per SS Barden Yonnie, for Glasgow, 5,460 deals; per SS Jeranis, for Liverpool, 16,475 pcs. deals, 760 deal ends and 22,817 boards; per BK Julie, for Buenos Ayres, 14,827 pcs. lumber and 37,681 pickets; per SS Mississippi, for Liverpool, 1,269 poards and 13,332 deals; per SS Batavia, for Glasgow, 10,000 feet lumber; per SS Dominion, for Britol, 2,819 deals and 1,689 boards; per SS Devon, for Bristol, 8,675 deals; per ship Gloam ing, for Buenos Ayres, 80,355 pcs. lumber; per BK Accident, for Grimsby, f.o., 6,130 deals and 478 deal ends; per BK Sokoto, for Buenos Ayres, 42,710 pcs. pine lumber and 4,783 ditto on deck; per BK James Law, for Buenos Ayres, 57,605 pcs. pine lumber and 9,470 boards and 1,101 deals.

The market is quiet with almost no demand and stocks heavy. Prices for good long wood ex cartage at the whaves are as follows:

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Long Maple	5	00
Long Bit 1.	4	50
Long Dit. 1.	ā	00
Toughet a	-	ĔŇ
Tamarack	٥	30

CHICAGO.

THE CARGO MARKET.

The Northwestern Lumberman of June 20th says:-The port list for the week ending Wed nesday showed 207 arrivals, a number that compares well with the total of the corresponding week of last year. Since the beginning of June steadiness of arrivals has been a marked of the lake receipts. No matter which way the wind has blown, from 175 to a little over 200 cargoes have put in an appearance each week.

The feeling this week is firmer than at any time since the opening of the season. This is particularly a fact as respects piece stuff. Several good cargoes, that ran mostly white pine, have been sold mostly at \$8.75 a thousand Desirable loads are decidedly nimble at \$8.50, and we hear no more of shadings below that figure. The fact is that little piece stuff is coming to market, the most of it being sold at the mills. An opinion begins to prevail that dimension lumber is becoming short in supply in the country at large.

While the green piece stuff is firmer, and an advance of 25 cents a thousand has in several cases been attained, dry dimension is weaker than it was at the spring opening. This can be accounted for from the fact that dry piece stuff in the yards is yet weak, and selling lower than t can be bought for on the market. So we see that we have a criss-cross of conditions weakness in dry lumber, and a firming up of green stuff.

No. 2 dry stock is coming in less volume than a short time ago. Commission men have been cautioned moderation in shipping it. Too large a proportion had been coming since the opening of navigation. The greater share of that piled at the mills has been marketed, how The most now being sold goes at \$10 to \$10,50 a thousand. Calls are a drug, and are off in price. Lumber of this class, that sold through May at \$0.50 a thousand, now sells at \$5.50.

A sale of stock from No. 1 logs is reported this week at \$15 a thousand, which was straight log run. This price indicates that good lum wr is still well esteemed.

More than the usual amount of hemlock plant is being required for street improvement thu year. It is cut two inches thick, and sells for \$7.25 to \$7.50 a thousand.

Shingles are weaker than they were two week ago. Arrivals are liberal. Standards have gone off 5 cents on a thousand, ranging now at \$1.85 to \$1.95 a thousand. Extras are selling from \$2.12\ to \$2.20, and a sale of Boyden & Spiles....

Ackeley shingles at \$1.95 is noted.

Lath is worth \$1.20 green, and \$1.50 dry. Lake freights are weak on a basis of \$1, by steam, to dock from Muskegon, with probable

ecasional shadings on this ligure.					
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Lake freight rates are quotable as follo	WS	:			
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AT THE YARDS.					

The volume of shipment still lags behind the the June business of last year. The dealers insist that trade is exceedingly dull, so far as car load shipments are concerned. The redeeming feature of mid-summer dullness is only found in the prevailing good demand for lumber on local building account. Reports are almost uniform in this particular. In fact, the amount of lumber called for by the contractors and carpenters in the city and suburbs—especially the latter—is something of a surprise to the men who cater to this class of trade. After the spring opening, for a time, the local demand, though good, did not exhibit that vigor and urgency that was wanted, and men began to predict that that the fairly active spurt of spring business would ease off toward summer, so that the season, as a whole, would not be as favorable as that of last year. Then there was a stonequarry strike at Lemont and Joliet, and the lateness of the season delayed the ripening of the new crop of brick. Altogether, the outlook was considered less promising than it was at the beginning of last season. But as the time advances it it is seen that, though there are numerous dwellings and some business places without tenants, long lists of building permits are daily taken out, while the volume of demand for lumber is well maintained. Yards that do a local business almost exclusively have their teams busy delivering lumber, while the shippers are lamenting the meagreness of their mail orders.

In the present stagnant condition of trade not much can be said about prices. Dea' s are getting as much as they can for lumber, selling for what they can ret. Dimension should ber firmer, but it is difficult to determine that such is the case. Comparing schedules for bids this week, we find that two, amounting to over \$1,000, differed only 35 cents. This is near enough for the most exacting. It can be said, too, that the prices made in each instance did not materially differ from the printed list. One schedule was from a manufacturer and another from an exclusively jobber. And yet a manufacturer has this week stated that prices are apparently weakening all the time; and one instance is reported in which, under the stress of competition, a house was induced to cut the prices of another house \$2 a thousand on some items of dimension and other stuff. But as a general thing there is a firmer feeling regarding dimension, as a result of a stiffer cargo market, and short stocks, coupled with scarcity, outside of this market.

Receipts of lumber, shingles, etc., from Jan. 1st to June 18th as reported from the Lumberman's Exchange:---

RECEIPTS. Lumber. Skinglet. FROM JANUARY JAN. 1, 1885, TO JUNE 18, 1885, INCLUSIVE Exemples. Shingles.

k	Decrease 163,901,000	150,524,000
18	LAKE RECEIPTS FROM JAN. 1 TO JU	KR 18.
r	Lumber	.\$17,792,000
1	Chingles	122,830,000
	Wood, cords	9.127
	Posts. Ralicond ties.	1,131,970
m	Railroad tien	809,638 7.784
ıt	Slabe, cords	
8	Bark, cords	11,731

BOSTON.

The Journal of Commerce of June 20th says Chero is a moderate demand for supplies, with little change to note. Spruce and hemlock are firm and in good request. Southern pine is having a moderate call. Western pine is quiet. Hardwoods are moving moderately, and about the same as previously reported.

CANADA PINE.

OSWEGO, N.Y.

05 11 240, 2112.	
Three uppers	\$12 00@46 00
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Common	. IN COUCHE OF
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Sidings, selected, 1 in	. 30 00((35 00
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1 3(1)) etc. 1+10. 19 to 18 (t	10 00/421 00
I Selected	21 00@24 00
Shippers	11 00@10 00
N(i) vin. 14x10	17 00(320 00
Selected	21 00@30 00
I Shippers	14 00641000
Mill run, 1 & 1} in, strips	15 60@18 00
I Selected.	22 00(430 00
Culls	11 00@13 00
1A7 selected for clapboards	25 00@t35 bu
Shingles, XXX, 18 in. pinc	3 5000 4 00
Coller	2 75@ 3 20
Lath, No L	1 75@ 1 90
No 2	1 00@ 1 23

ALBANY.

Quotations at the yards are as follows :-
Dina along 20 M
Pine, fourths
Pine, selects
Pine, scients
Pine, good box 22 00@33 00
Pine, common box
Pine, 10-Li. plank, each
Pine, common box
Pine, 10-in. boards, 16 ft., WM. 23 00@32 00 Pine, 12-in. boards, 16 ft. 29 00@32 00
Pine, 12-in. boards, 1815
Pine, 12-in. boards, 13ft 28 00@00 00
Pine, 11 in. siding, select 40 00o43 00
Pine, 11-in. siding, common 15 00@18 00
Pine, 1-in. slding, select 40 00et42 00
Pine, inch siding, common
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Spruce, plank, 11-in., each
Spruce, plank, 13-in., each
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Homlock hoards each
Hamlook foiet 448 (4th
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Hemiock, wall strips, 2x4, cach
Black walnut, gook. & M 100 @120 00
Rlack walnut, \$ inch
Riack wainut, 4 inch
Scaymore, 1-inch
Continuora 5 inch
White wood. I inch and thicker 58 00x10 00
White wood, 4-inch
Ash., 700d. 21 M
Ash, second quality, of M
Cherry, good, \$\frac{\pm}{M}\$. 25 00635 00 Ooks, good, \$\frac{\pm}{M}\$. 40 00845 00 Ooks, good, \$\frac{\pm}{M}\$. 25 00635 00 Ooks, good, \$\frac{\pm}{M}\$. 20 00825 00 Ooks 30
Oak, good, \$2 M
Oak, second quality, # M 20 00@25 00
Hickory 2 M
Manle Canada 22 M
Manle American, ner M 26 00:325 00
Shingles, shaved, pine, & M 0 0000 6 50
extra sawed, pinc 4 000 4 00
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Lath hamlock 22 M
Lath, spruce, 44

BUFFALO.

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ACKAWANDA

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LONDON.

The Timber Trades Journal of June 13th says:-Prices at Wednesday's sale were not a whit better than those we have been recording lately. There was plenty of bidding, especially for the spruce lots submitted, but unfortunately the competition ended where it ought to have begun, and the values realized show no advance on past sales. Floorings were also freely offered for, but only at prices that left little or nothing on the first cost, and in several in stances at figures much below what they could be imported at. The few lots of Memel ex Coloridge sold about as well as anything. The political change had evidently not made itself felt on the wood trade, judging by the comparso ative indifference displayed by many of the big

SAW SE

SWAGES

BELTING

LEATHER

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LES,

WHEELS, GUMMERS AND CUTTERS

SAWS.

HEADING

AND

BAND SAWS,

dealers to secure the bargains going, and probably many of them are willing to wait, in the hopes of acquiring stock at even lower values than are now ruling. It is a very open question whether the market prices will revive or experience a still further subsidence. On the other hand we have the large stock in hand and the dull state of trade, whilst on the other there is the known shortage of deals, &c., on the Swedish as well as the Canadian side, to turn the scale in favor of an advance; but the want of confidence in a short supply predominates sufficiently to check speculation, and things go on at a dead level that is unsatisfactory to everybody.

The rapidity with which news is now trans mitted doubtless assimilates the markets of the world, and hardly anyone dare reckon on a con tinuation of any shortage in the supply, as probably, while he is turning over in his mind how to take advantage of it, the wires have apprised the producers of the want, and the supply to satisfy it is already on its way.

Corn is as cheap as it is likely to be for many a year to come-we have many of the lands going out of cultivation in consequence of its unremunerative character-but the same uncertainty attaches itself to any investment in this direction that surrounds the timber trade The source of all the stagnation is to be found in the alarming over-production. The whole world is apparently directing its attention towards supplying the markets of Great Britain, and that the strain can have been supported for such a length of time speaks volumes for the solidity of the country and its vast financial resources.

There are as many houses as can find inhabi tants, and the building trade has been stimulated by the cheapening of railway rates and other modes of conveyance, which, together with the abundance of money in the country with very few other channels for its distribution, made the consumption of timber while the fever lasted equal to keeping pace with the supply, but now that building is overdone the supply goes on all the same, with, of course, a corresponding de pression in prices.

That an enormous trade in building is doing, and will continue to be done, in this country, of a legitimate kind, there cannot be the slightest doubt about; but it has its limits, and when that point is reached the reaction is felt on wood values. It is something of the kind now that is operating so hardly against the timber market.

Things at Thursday's sale were rather brisker than the previous day. The attendance was hardly as numerous, but the bidding, though very feeble at the commencement, rallied considerable as the sale proceeded. Spruce, though still low, was in slightly better request, and prices for the Quebec and other parcels submitted may be said to have advanced on the prices of the day before fully 5s. a standard.

The Michigan pine ex Scotland, 1st quality 12 to 14 in., sold well at £26 10s. to £27 5s.; the same with the 2nd at £18 15s. to £19. These goods are nothing like equal to Quebec of similar quality and dimensions, and were not dry, being imported sometime last October, and if 1834 spring cutting it was as much as they The lower quality pine lots fetched their full value at the prices recorded. The Odessa wainscot and seasoned oak was cheap at the prices realized; but, though stocks are not overdone, we understand that shipments are expected to arrive shortly that will give a different complexion to the dock stocks. Oak generally was not very much inquired for; there were plenty of buyers for the Danzig and Stettin straight oak, but a great deal of it was only smell stuff.

GLASCOW.

The Timber Trades Journal of June 13th says: During the past week the first imports of Canadian deals for the season have been received here, several steamers having arrived with small parcels, consisting of pine deals chiefly, and a lot of ash 3 in. deals and 1 in. boards.

The Canadian deals imported here are now brought mostly per steamer as filling up, this market being a good general depot for sawn stuff. No sailing ship from Quebec has yet

arrive at Greenock about three weeks later than

There has not yet been a public sale of the new deals just landed, so that nothing can be said meantime as to how they have been receiv ed. This season opens with a favorable change for the storage of deals, Yorkhill Yard being set apart for deals and the log trade accommodated at the east end of Queen's Dock, which is a good arrangement, as more room was required, and the ground could not be so well utilized when logs were stored promiscuously in the same yard with deals. On the other hand, the berthing room at Yorkhill Wharf has been curtailed, owing to the extension of the cattle trade there

The only import at Greenock to note for the weeksis one cargo-ratch pine The total tonnage employed in conveyance of pitch pine to Olyde this year to date is 11,797 tons, against 18,872 tons for corresponding period 1884.

The public sale, particulars of which are noted below, was fairly attended, but only a moderate amount of business was done.

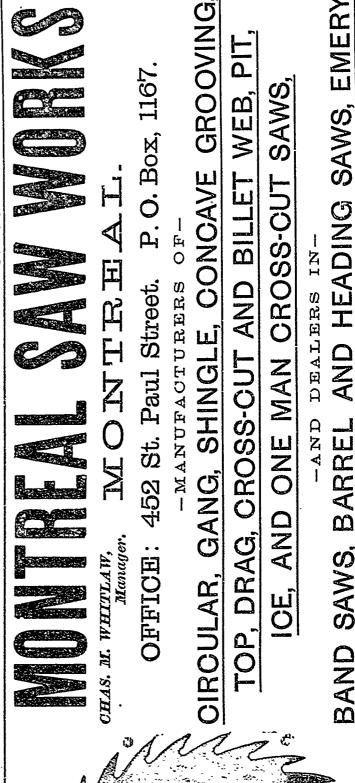
VUOTION SALE.

On 4th mst., at Greenock, Messrs. Singleton,

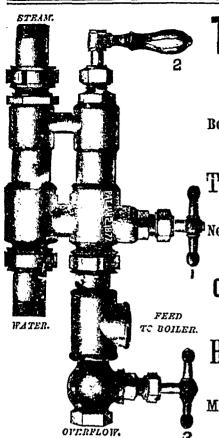
Euon & Co., brokers:-	
Quebec waney boardwood-	Per c. ft
45 & 48 cub, ft. avg. per log	1s. 11d. & 1s. 9}
Quebec yellow pino-	
40 cub. ft, avg. per-log	18. 1 <u>1</u> d.
26 " _	18.
Quebec red pine-	
88 cub. feet avg. per log	1s 0 <u>1</u> d.
Quebec oak-	
1 log msg. 61 c. ft.	9n, 4jd.
" 68 "	21. 4d.
5 " 334 "	1s. 7d.
Quebec birch-	
4 logs msg. 72 "	1s. 1d.
Hown pitch pine-	
1 log mag. 53 c. ft.	1s. 13d.
Quebec 3rd yellow pine deals-	
12 ft. 7/9×3	11 3 d.
Quebec 4th yellow pine deals-	
13 ft. 12/23×3	1s. 0}d.
12 " 11/15×3	11 <u>1</u> d.
13 " 11×3	9]d.
9 to 13 " 11/22×3	9d. to 10ld.
Miramichi spruce deals -	
18 to 22 ft. 7×3	8 i d.
10 " 14 " 7×3	8 } d.
Miramichi pine deals-	
10 to 22 ft. 14/18×3	8d.
10 to 22 " 11/13×3	73d. & 8d.
9 to 22 '' 8/10×3	71d. & 8d.
White dram battens-	Per lin. ft.
7 to 23 ft. 4×2	0 <u>1</u> d.
8 to 23 " 6×2	03q.
11 to 24 " 63×23	0 15-16d.
10 to 26 " 7×2}	1 1-16d.
Reddram battens—	
5 to 23 It. 6×2	0 <u>7</u> d.
18 to 22 " 6} × 2}	1 7-16d.
13 to 22 " 7×2}	1 9-16d.
8 to 22 " 7×8	2d.
Red pine deals—	Per c. It.
6 to 22 ft. 9×3	1s. 2d.
Pitch pine deals	
3 & 4 in.	₽d. to 10}d.

TYNE. The Timber Trades Journal of June 13th says: The arrivals of the past seven days have been thirteen cargoes or parts of cargoes principally from the Baltic. Amongst them are three regular steamers from Christiana and Gothenburg, with cargoes of wood pulp, battens, boards, and pitwood. The various discharging places are all now fairly occupied, and the docks present a more lively appearance. So far the great bulk of the arrivals appear to be going into stock, there being but a small and feeble demand for wood goods one the whole. A few contracts are being rapidly pushed forward, and during the last few days some rather large con tracts have been signed, but their number and amount are not sufficient to make much active demand. House building in one or two of the suburbs still is very brisk, but in the district generally there is not agreat deal doing, and house property is at a discount. The ship building trade shows no signs of a revival, many of the yards remaining closed apparently for an indefinite period, and most of them working short time with a very much reduced staff. There are a few exceptions, but it is principally where Government contracts for war vessels are in progress.

stuff. No sailing ship from Quebec has Jet Use the great specific for "cold in head" and appeared; the timber carriers generally begin to catarrh—Dr. Sage's Catarrh Hemedy



Catalognes and Price Lists furnished on application.



The Hancock Inspirator

Best Feeder known for Stationary, Marine or Locomotive Boilers.

The Injector Perfected!

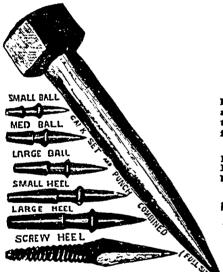
All sizes lift water 25 feet. No adjustment required for varying Steam Pressures.

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5 Custom House Square, MONTREAL, P.Q. - - CANADA

Manufacturers of Inspirators, Ejectors, and General Jot Apparatus. 1311



LUMBER DRIVERS'

Our CALKS are made with small trip hammers from the best quality of steel and tempered in oil. The quality and temper can be tested by driving them into a bar of wrought from.

These calks are now used by all the principal Drivers in Maine and New Brunswick. Hept by dealers in Lumberman's Supplies.

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ST. JOHN, N.B.

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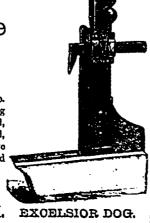
KNIGHT'S PATENT "EXCELLSIOR"

SAW MILL DOGS

The Sawyer's Favorite

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

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



Something New in Leather Belting

To Mill Owners, Lumbermen, Manufacturers

Dixon's Patent Lap Joint

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F. E. DIXON & Co., 70 King Street East, Toronto Send for Circulars and Price Lists.

Over 70,000 Now in Use. PETER ROBERTSON

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LUMBERMANS' TOOLS!

Which took every honor awarded at the Centennial Exhibition.

THE CELEBRATED

Lightning Cant Dog.

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ESTABLISHED 1856

Best Belt ever offered

IN CANADA

EVERY BELT GUARANTEED

The Best Mills in the Country use it.

OUALITY is what I aim at, the result being the Generous Support of all Manufacturers.

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Lace Leather, American Rubber and Cotton Belting, etc., always on hand

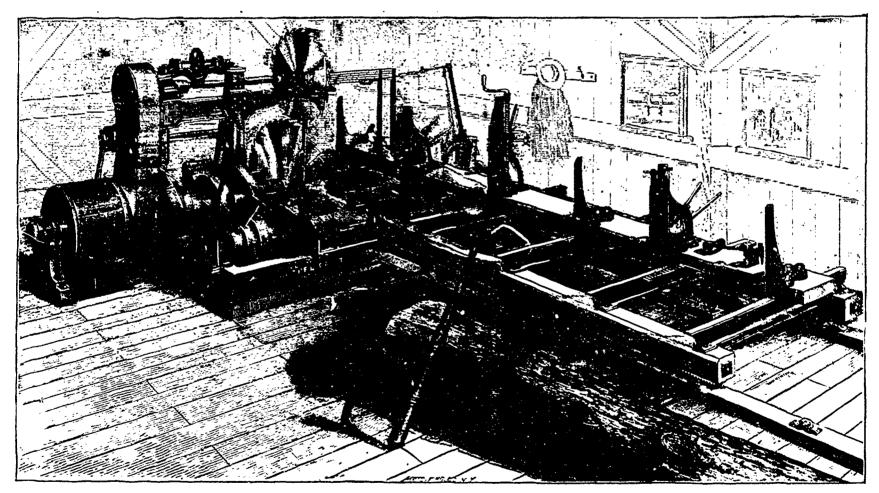
Manufactured by HUGH GIBSON, CHATHAM. EXCELSIOR DOG.

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Circular Saw Mills,
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Planers,
Drag Saw Rigs,

Shingle Machines,
Lath Machines,

Double and Single Power Feed

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Mill Supplies, Etc., Etc.

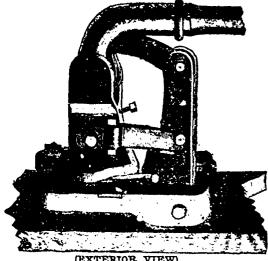
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THE WM. HAMILTON MANUFACTURING CO'Y

Peterborough, - Ontario

Manufacturers of Saw Mill and General Machinery.



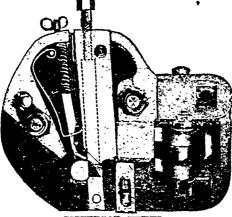
This SWAGE has been constructed to fill any conceivable wish of those who are favourable to, and think it the only

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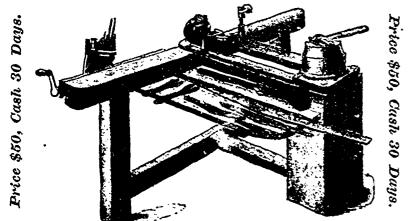
kind that can be successfully used. There is no Swage of the kind on the market that will do as perfect and satisfactory work as this, and in so saying, I know what I am talking about.

TRY IT!

Price \$100, Cash 30 days.

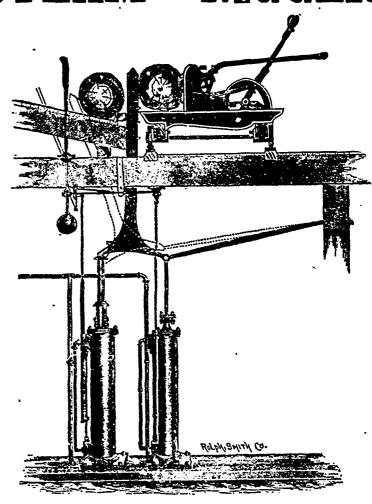


Covel's Improved Saw Bench



This is without doubt, from my knowledge of what is wanted in every mill, ther with a many testimonials I have received from those using them, the best outfit for mammering and the general care of Saws, that has ever been introduced, and accompanying each Bench is my "Handy Guide" book, giving all necessary instructions how to remedy any and all defects in the Saw. I have added improvements to it since I got the cuts out represented in the "Handy Guide" and done away with some parts there represented, leaving the Bench a model acquisition for the File Room.

PRESSURE STEAM "NIGGER"



It is four machines in one—Log Loader, Log Turner, Hand Spiking Machine, and Machine for Springing Timber Straight on Sawmill Carriages. It saves time, which is money. Is durable, being made entirely of iron, steel and brazs. It is very quickly and easily controlled, the machine being worked by direct steam, is elastic in its movements (thereby obviating its liability to breakage) which is a very desirable point in a machine. By using this machine your circular mill will saw from five to seven thousand feet more per each eleven hours, according to cutting capacity of mill. We guarantee this machine to be first-class in workmanship, durability and utility. It has given entire satisfaction to every one using it. They are very cheaply set up in mill requiring all a base for the cylinders on lower floor, and no bridge-trees set up in mill requiring only a base for the cylinders on lower floor, and no bridge-trees shafting, boxes, pulleys, belts or chains. Both cylinders are supplied with steam by a one and a half inch steam pipe. It requires less steam to work it than it takes to overcome the friction on the old style friction turners. It works only while turning or loading logs—balance of time it is entirely idle. Another important use to which we direct your notice, is in springing and straightening long timbers. We would be pleased to receive your order for one or more of the above Machines, feeling confident that it will give you entire satisfaction.

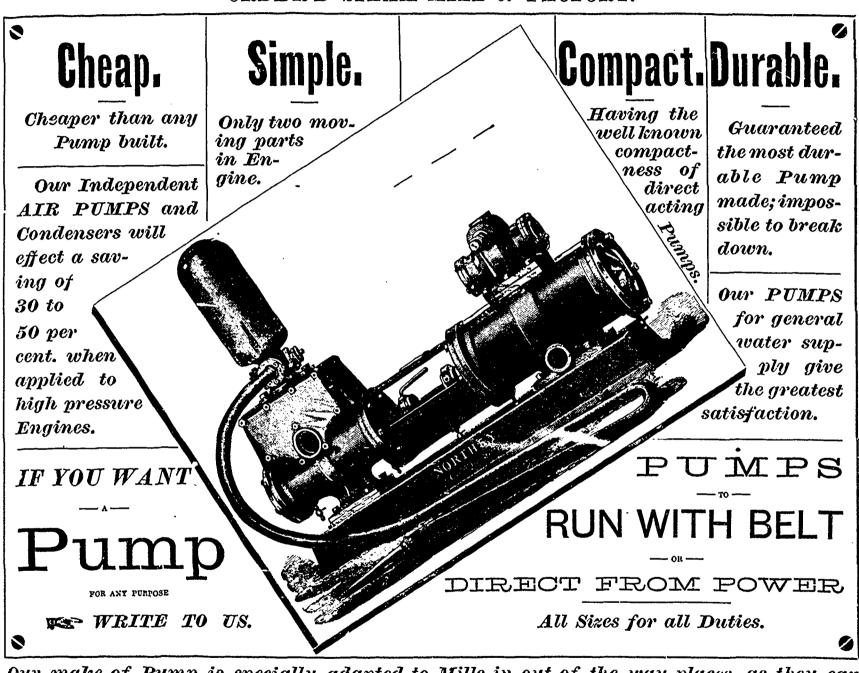
We Guarantee each Machine in every Particular.

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

Pumps for Fire Protection a Specialty.

SAVE INSURANCE.

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



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

WE INVITE CORRESPONDENCE ON ANY POINT CONNECTED WITH PUMPS.

SEND FOR CIRCULAR AND STATE YOUR REQUIREMENTS.

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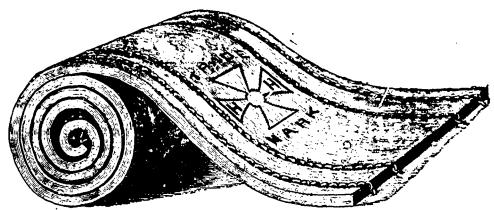
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124 AND 126 QUEEN STREET,

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Patent Stitched-Steam Power Pressure Stretched-Oak Tanned



The Best, therefore the Cheapest, Belt in the market. Replaces, when used, all others.

More Pliable and Durable, especially at the splices.

Stretches but little, always retains it original width. Superior for Cross or Double Belts.

Runs straight and true, does not start at the laps.

Single equals medium double.

25 per cent Stronger, 33½ More Lasting, and 12½ Heavier, than any other Leather Belt.

Why do You Suffer when you May be Cured by Electricity?

Without loss of time or great expense. Ten or Twenty Dollars spent in ELECTRIC BELTS will do you more good than a hundred expended any other way.

CRYING BABIES.—Babics cry because they suffer. Their little gums are inflamed, and their bodies are more or less feverish. If you will tie around their necks one of NORMAN'S ELECTRIC TEETHING NECKLACES you will see a wonderful change for the better, their sufferings cease, and their general health improves. Ask for Norman's, and take no other, and you will be pleased. Price 50c.

FEVER AND AGUE.—Do not throw away money on worthless remedies, when NORMAN'S ELECTRIC BELTS will cure you. Use one and you will find immediate benefit. Every one is guaranteed.

LUMBAGO.—Those who suffer from this disease will find a friend in NORMAN'S ELECTRIC BELTS when all other remedies fail. Ask your druggist for it, and take no other Guaranteed.

CONSTIPATION AND BILIOUSNESS and all disorders of the Stomach and Liver are corrected by using NORMAN'S ELECTRIC BELTS Try one and be convinced. Guaranteed.

FEMALE TROUBLES.—Ladies are benefited more by NORMAN'S ELECTRIC BELTS than by all the science of medicine. They are comfortable and durable. Guaranteed.

WEAKNESS and Lassitude yield to the influence of NORMAN'S ELECTRIC BELTS when all other remedies fail. 'Try one and you will suffer no longer. Every belt guaranteed.

NERVOUS DEBILITY.—This dreaded and miserable disease is immediately relieved by the use of NORMAN'S ELECTRIC BELTS. Ask for them, take no other. Every belt guaranteed.

INDIGESTION AND SLEEPLESSNESS.—This seven headed monster is more easily overcome by the use of NORMAN'S ELECTRIC BELTS than any other remedy, and it possibly cannot do any injury. Guaranteed.

RHEUMATISM cannot remain long with any one who uses NORMAN'S ELECTRIC BELTS, and Neuralgia is driven away like smoke before the wind. Give one a trial. Every belt guaranteed.

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TESTIMONIALS-A few Sample Testimonials that speak for Themselves.

MAL .1 D.T., December 17th, 1883.

DRAR Sir,—I am happy to inform you that the Appliances I got from your least of the properties of the p

Shortly after he get your belts he was able to get out of bed, and is now on a visit to his Canadian friends.

Bend me some more circulars.

Yours truly,

DR. D. McLACHLAN,

DR. NORMAN,

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DRAR Sir,—Som citer I commenced to use your Electric Appliances they opened my bowels, cured my cough and conditionally relieved my catairth in consequence. The discharges from my head and chest are now easy, and I feel altogether better. My digestion has improved, my atometh is less your and windy, and I am less troubled with lascivous and vivid dreams. I had previously tried almost all the advertised patent medicines without deriving any good.

Yours truly,

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Baths have been admitted in all ages by every school of medicine, to be one of the best means of curing ailments, maladics and diseases. The Electric Bath is the latest and best discovery in this line. Come and try them. Consultation free. Circular on application.

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