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VOL. 5.

PETERBOROUGH, ONT., DECEMBER 1, 1885.

NO. 23.

CARR OF THE FORESTS.

Forest preservation in Canada was the sub ject of a contribution by Mr. A. T. Drummond. of this city, at the annual meeting of the American Forestry Congress at Boston. In a raums of the present position of the forest preserves of this country, the author points out that, though in the Provinces of Ontario and Onebec there are still considerable areas of red and white pine along the northern tributaries of the great lumbering rivers, the trees are of diminished size compared with those common 30 years ago, and the lumbermen are fast approaching the limit of the growth of these most valuable of our lumber woods. New Brunswick's preserves have also been greatly en croached upon; Nova Scotia has scarcely any left; in the Northwest the country is chiefly prairie, and there the question is he : far forest may be created; in fact it is only in British Columbia that they are yet largely untouched and these, with what remains in the eastern provinces, it is urged, should be conserved as to be a continued source of revenue. The money to be gained from the manufacture of lumber nowever, is not the only measure of importance of forests to the country. That is an item effecting the welfare of the individual provinces or states of the two great political divisions of the continent alone, and if their people choose to waste in a comparatively few years the natural wealth with which they have been endowed it would only be a matter of regret to their own citizens who would have to make up in other ways the revenue their governments generally derive from the forests under their control. There is another and a wider ground in which the people of the whole country are The denudation of the forests has interested. been scientifically proved to have a serious effect on the rain fall of the adjoining territ ry, and on the streams flowing through it. In this connection, which, on account of local geographical conditions, applies less to Canada than the United States, many states may be and are effected by the unwise action of one of their number. Streams running through and serving the purpose of several states may be so dried up as to cause serious loss to their inhabitants who are in no way to blame for permitting the causes of the trouble Two years ago a serious fall in the level of the Hudson was attributed to the stripping of the forest land at the head waters of the river, and the feeders of the Eric canal fell so low as to cause fears that a greatly increased expenditure would be necessary to maintain the usefulness of that avenue of commerce. Thus states possessing large wooded areas owe a duty to their neighbors as well as to themselves, and how they may best discharge it is the subject of Mr. Drummond's essay. The work is twofold in it nature-preservation and renewel. Besides Germany, Franco and Sweden, in Europe, India and Cape Colony

have forestry departments, the latter being arranged on the fundamental principle that every tree cut down shall be replaced by a newly planted one; as the Government report says, forest destruction is as firmly opposed as any other moral evil. The expense of this is not so formidable as might be thought, each South African forester being expected, besides his other duties, to annually raise and transplant to the burned and cleared districts 4,000 young trees. This is urged on American Governments as an example worthy of being followed as regards one part of the problem-replanting. Preservation is a more complex and, perhaps, more difficult object to secure. The present system of granting leases, by which lumbermen have virtually continuous contro! of the limits once they obtain possession of them is open to objection, though with regard to existing leases it cannot fairly be altered without compensation to the holders. In new districts though, it is urged, a wiser course might be pursued in the way of restricting the leases to definite terms of five or seven years, when the land would be given a rest for say 25 years, to enable the smaller trees to reach a suitable size for the lumberman's use; limits should also be of restricted size as is the case in Manitoba and the Northwest, where alone the Domin' a Government have control of the wood lands, so that the systematic work of replanting and protection might be more readily carried on; square timber production which causes both a waste and danger, increasing the material by which fires are carried, should be discouraged; the cutting of trees under 12 inches should be a punishable offence, and the starting of forest fires a criminal ane, ir volving the punishment of every member of the camping party whose negligence was the cause of the catastropho. These, Mr. Drummondthinks, are the remedies for the evil which all acknowledge to exist in a greater or less degree in each of the provinces-in Quebec, owing to recent legislation, perhaps, least of any—and the means of enforcing them, he sums up in the organization of a forestry department by each local government, with a regular superintendent to look after and oversee the forest ranges and their duties, to prevent encroachment by lumbermen on unleased Crown lands to see that small trees were not cut, to investigate the cause of every fire happening within their districts and punish the guilty parties, to raise exhausted or young trees for replanting the burned districts and to collect and sow the secula of desirable kinds of trees, and to generally encourage treeplanting by land owners and disseminate information about trees and tree culture. - Mon-

Ross & Co., of Quebec, have purchased a tract of pine of S. Coleman, Chicago, situated on Monistique river, north of Driggs station.

treal Gazette.

A QUESTION OF STUMPAGE.

An agitation is on foot in New Brunswick to ecure the removal or the reduction of the stumpage charged by the Provincial Government by all logs cut on the public lands. The logs sawn in that province are almost entirely spruce, there being little pine of any value. The wood exports are, therefore, almost exclu sively of apruce deals and boards and scantling, which find sale in Great Britain. Here they come in competition with the woods of Norway and Sweden and Russia. The Norway woods have the advantage of a shorter sea voyage, consequently cheaper freight than the New Brunswick deals, and the cost of the labour employed in logging and milling is less. Under these circumstances the profitable production of spruce lumber in New Brunwick is carried on with difficulty. Not long ago, the New Brunswick Government increased the rate of stumpage. They gave the lumbermen longer leases of their lands, and holding that this gave their business greater security on the ground of permanency, the Government decided to exact heavier stumpage in return for the so-called privilege. It is now claimed that, looking at the disadvantages under which the lumberman and the manufacturers of lumber are laboring, the stumpage charges cannot be borne and ought to be abolished; and it is maintained that although the Provincial Government may lose some revenue, the people of the province must gain very largely. It is, in fact, asserted very positively that if the stumpage is adhered to by the Provincial Government, the lumbering business cannot go on. The snawer of the Government has not yet been received.

It is claimed by some that in fairness the Government ought not to levy stumpage charges at all. Under the terms of the Washington treaty and for Dominion purposes it became necessary to abolish an export duty which New Brunswick had for many years imposed on sawn lumber. The Dominion recouped the Province for the loss by an allowance of \$150. 000 annually. It held by many that this \$150, 000 a year was actually in heu of New Brunswick's revenue from the lumber on her own lands, but the several Governments of the Province have thought differently, for they have not only accepted the \$150,000, which represents the loss sustained by the Government in those days three times over, but they afterwards levied a stumpage tax and have steadily gone on increasing it, so that now they receive from stumpage more than they formerly re-They had the ceived from the export duty. power to do this but there is a suspicion that it was not good policy and that if the Provincial limits they need not have resorted to the

now certain that the lumbermen of the Province, who are largely manufacturers of their own lumber, for which they have to find a market where they can, claim that they are heavily handicapped by the stumpage fees and are unable to conduct their business with any profit to themselves with such a burthen on their backs, especially in these times when the lumber market in England is so demoralized. As lumbering and the manufacture of lumber constitute the great industry of New Bruns wick; as this interest permeates every branch of trade and effects alike the farmer, the laborer, the mechanic and the merchant, the lumbermen's complaints will, no doubt, receive respectful consideration from the Government and the Legislature. If this were a question of whether a few persons engaged in a particu lar business should sink or swim, the Govern ment might not be induced to medify their policy as they unght assume that others would step in to take the place of those who might drop out. But this is not the fact or the reasonable assumption here. Not a few jersons only but scores of thousands feel the effect of the depression and the burthers. All those who have invested capital in the lumbering on the public lands are complainants. And it may be that the existence of mai misiness houses, Carrying on extensive outerprises, is staled on the decision of the Government. - Montreal

BOILER CORROSION BY SULPRUR.

A French commission on the inspection of boilers and thom estigation of accidents result? ing from their explosion, had its attention drawn to the explosion of two boilers, one at a colliery in Nieve, and the other, at the Ougree Iron Works, in Belgium In both cases the accident was attributed to the destructive effect on the metal of sulphuric acid. In the case of the boiler at Nievre, it contained large scales of oxide of iron, and also sulphur in some form of combination was found on the correded parts. At the Ougree Works, sulphuric acid was actually found in a free state as well as inthe form of sulphate of iron. Two samplysiof. the sout left by the smoke in the parts destroyd ed were analyzed. They gave sulphatogof iron, between 52 and 53 per cent., and free shipphyring acid in ore sample 1.42 and in anoth; ripearly, 12 per cent. The action was thus explained at The soot was deposited during the morting uf the pudding furnaces in an entirely dry mater but when the fires were put tout, the sur, logical, with moisture, entered sull equiperted the soat. into a paste. The exiderity of the sulphing will acid then occurred, and the gron was in, the best, expenditure had been kept within reasonable condition to be attacked. The corriery action. was thus going on constantly when the holler stumpage and especially to repeated increase of was not at work; and it was first spirit would up his in the rate. However this may be—and it is a cleaned out, while no action occurred where domestic question for home settlement—it is soot had been cleared away

BOARD OF TRADE RETURNS.

The following are the returns issued by the Board of Trade, for the mouth of 1885, and also for the 10 months ending Oct.

1885 :		
MONTH ENDRO 3187 OCT.	1885.	
Timber (Heun).	uantity.	Value
Timber (Heun).	Loads.	£.
Russia	30,687	52,870
Sweden and Norway	62,133	80,510
Germany		03,320
United States		26 891
British Indis		79,660
British North America		122,113
Other Countries		38,893
Total.,	190,063	407,610
Timber (Sawn or Sylit, Planed or Dressed).		
Russia	193,938	439,066
Sweden and Norway	228,527	470,859
British North America		822,881
Other Countries	21,240	65,177
Total	581,363	1,290,983
Staves, (all sizes)	14,235	54,001
Mahogany (tons)	4,954	41,701
Total of Henn and Sann	771,426	1,764,623
TEN MONTHS ENDED OCT. 31	ьт, 1885.	1
Timber (Hewn).		
Russia	237,741	425,020
Sweden and Norway	181,134	674.975
Germany		631,100
United States		480,830
British India		467,627
British North America	217.020	952,714
	,,	

HOW TO PUT AN ENGINE IN LINE

Other Countries......344,136

Other Countries..... 299,228

Total----- 3,703,656

British North America

Total

. 1,711,208 4,039,444

3,214,503

891,296

8,389,070

430.313

816,456 1,997,727

An engine in line when the axis of the cylinder, and the piston rod are in one and the same straight line in all positions, says Leffel's Milleright & Mechanic. This line should intersect the axis of the engine shaft, and be at right The guides should also be parangles to it. The shaft must be level, but the allel thereto. cylinder may be level, inclined, or vertical

ccording to the design of the engine. To line up an engine, as it is generally termad, take of the cylinder head, remove the piston, crosshead and connecting rod, then with a centre punch make four marks in the countre bore at each end of the cylinder at equal distances apart around the bore. Take a piece of stiff hoop iron with a hole at one end of it, slip it on to one of the stud-bolts of the back cylinder head, and secure it firmly with a nut after which it may be bent in the shape of a crank, one end projecting across the cylinder at its centre, at a sufficient distance from it to admit of convenient and accurate measurement. Next draw a fine line through the cylinder, and attach one end of it to the temporary crank above mentioned, and the other end to a stake driven into the floor at the back end of the bedplate. Then with a piece of hardwood or stiff wire pointed at each end and equal in length to half the diameter of the cylinder, set the line, so that, when one point of the wood or wire is inserted in any one of the centre-punch marks at either end of the cylind or, the other end will feel the line. Next see of this line passes through the centre of the shaft; if so, the cylinder is in line with the shaft, if not, one or the other must be moved, which requires both kill and judgment, since engines differ so much in design and construction. Now turn the engine shelt round till the crack-pin almost touches the line passing through the centre of the cylinder, then ascertain by measurement whether the line is equi-distant from the collars on the crack-pin. Then turn the shaft on the other centre until the crack pin feels the line. If the measures correspond the shaft is in line with the cylinder; if not they will show which end needs to be moved. The operation may have to be gone over several times before a definite conclusion can be arrived at. The shaft may be leveled by placing a spirit level on it, if south at present cheaper than a year or two

there be room; if not, drop a plumb-line passing through the centre of the crack-pin and shalt; then by placing the crank at both centres and at half-stroke, the line will show whether the shaft is level or not. The guides may be brought into line with the cylinder by measuring from each end of each guide to the line passing through the centre of the cylinder, and moving them until they are parallel to the line and to each other. To adjust them to the horizontak a spirit-level may be placed on their top faces; if no level is at hand a square and plumb-line may be used; where these accessor ies are not at hand a straight edge placed across them will determine by actual measurement whether they are in line with the centre line

of the cylinder or not.
Engines get out of line from the following causes: faults of design, faults of construction, overwork, the character of the work which they are performing, or from the loss of the crank wearing away the face of the main bearing against which it revolves. To move an engine shaft and pillow-blocks into line with the centre of the cylinder, screw down the caps of the pillow-blocks firmly on the shaft, then slack up on the bolts that tie down the pillow-blocks to the bed-plate, after which the shaft, pillowblocks and fly wheel may be moved from the back end by means of a lever or jack-screw, after which they should be firmly tied, and the set screws and wedges re-adjusted. To move a cylinder, if the connections be short and stiff, remove the belts which tie it to the bed-plate, then measure from the plane of the cylinder to some fixed object such as a wall, post or column, cut a plank or scantling about an inch longer than the actual measurement from the cylinder to the wall, so that when placed against the cylinder. it may stand slightly oblique; then by driving on the end of the plank with a sledge or heavy hammer, the cylinder may easily be moved. The holes should then be reamed, and new bolts corresponding to the reamer substituted for the old ones. The cylinders, guides and pillow-blocks of all engines should be double pinned to prevent them from getting out of line, and whenever it becomes necessary from wear to move them, the holes may be re-reamed and new pins substitued.

LEATHERS ON LUMBER.

Don. J. Leathers, of Grand Rapids, the well known dealer in pine lands, while in Muskegon closing up the details of the White, Swan & Smith transfer to the Lumber Company, was seen by a reporter for the News and peremptorily pumped pertaining to the pine prospects of the peninsula.

"Is stumpage higher this fall, Mr. Leathers, than it has been for the past few years?

"Oh, yes; from 40 to 50 per cent."

"What are the principal reasons for the rapid advance?"

"There is a corner on pine. But compara tively few, if any, tracts are now held for speculative purposes. Non-resident speculative owners have closed out and the pine forests of Michigan are owned by a very few men, and these men are operating for an immediate profit. Money put in Michigan pine is turned very rapidly. There is a general scramble desirable atumpage and lumber will be manufac tured with a rush for the next two years."

"How many more years of lumbering is there in Michigan?'

"Not over five years. There are some tracts of course which will stand longer than that, but estimating the remaining pine as closely as possible, and figuring on the basis of the past few season's cut, and five years will see the forests protty well stripped."

"To what section will the lumbermen turn their attention when the timber belt of Michigan is denuded!"

"To the South and Washington Territory. As every one knows, there are vast tracts of pine in the Southern States and of as good quality as can be obtained anywhere. But it will require a good deal of northern capital and northern experience and push to lumber down there with profit. It is my impression that excellent tracts of pine can be bought in the

years ago. At that time there was a rush for southern pine, the demand being mostly for speculative purposes. The boom has gradually died out, and to my certain knowledge a number of purchasers would sell out to-day for less than they paid two years ago. It will be five or six years yet before lumbering will commence in earnest there, and but few persons are able to tie up their money that length of time and pay taxes- which are growing heavier each year-hoping for a rise in the market. Such men as Maj. A. B. Watson, D. A. Blodgett, as well as others which might be named, can't be very easily frozen out, and they will make money on their investment."
"Has there been as much money made in

lumber in this state as people have been led to believe?

"Well, I will cite you a single instance, which will compare favorably with a hundred such deals. Several years ago White, Swan & Smith purchased a tract of pine land for \$155. 000. They cut 40,000,000 of the tract and sold the remaining 80,000,000 feet for \$400,000. I made this sale and know the figures are approximately correct. While the lumber remains in Michigan there will be a greater activity in all operations than heretofore,"

WOOD-WORKING PATENTS.

The following list of patents relating to the wood-working interests, granted by the United States Patent Office, November 17th, 1885, is specially reported by Franklyn H. Hough, solicitor of American and Foreign patents, 925 F. Street, N. W., Washingston, D. C.

330,803.-Lumber-trimmer-A. Rogers, Mus egon, Mich.

330,797.—Planer-knife Grinder—G. H. Mills, Concord, N. H.

336,564.—Planing and matching machine—E. H. N. Clarkson, Baltimore, M. D.

330,399.—Saw gummer—F. Herhold & J. E. Mills, Chicago, Ill.
330,484.—Saw mill carriage—G. M. Hinkley.

Milwaukee, Wis.

330,720.-Saw mill carriage-S. W. Little, Evansville, Ind.

330,499.—Saw punching and setting machine-J. Laybolt, Wakefield, Mass.

330,396.-Saw swage-D. B. Hauson, Inlianapolis, Ind.

330,680.-Saw tooth- J. A. Dean, Worcester, Mass. PATENTS ISSUED NOV. 24.

320,867.—Chuck, lathe-J. C. Bauer, London, England.

330,948. Lathe cutting appliance-L. E. Wheeler, East Hampton, Mas

331,195 .- Saw, splitting-W. H. Hawley Hanford, Cal. 331,262.—Saw tooth swaging machine—J. E.

Traverse, New York, N. Y. 331,135.-Sawing machine, rift-O. S. Holt,

Rock Island, Ill. 331,054.- Stump extractor -I. B. Heard,

Bowling Green, Ky.

330,994 - Stump puller-J. W. Mayberry, Marvyn, Ala.

A CHICAGO OPINION.

The last issue of the Lumber Trade Journal contains the following on the situation in the umber market :-

It is slowly but surely being realized by the lealers throughout the country that the advance in price was made in good faith, and that the jobbers are determined to adhere strictly to present quotations. In scanning our various reports from the lumber markets elsewhere we find the same feeling as to prices predominate, and, indeed, in not a few of them there are indications of further advances. It may be well for the dealers that are still withholding orders (and we know there are many such) to take timely cognizance of the very important fact to them that prices are not going to decline, and it is not unlikely that a very nice per cent will be saved by placing orders now. It is thought by many the advance and those to be made, if any, will continue during next season. This idea we cannot endorse altogether, as the indications already are that as much, if not more, logs will be got out this winter than last. Many large logging crows are going out already, and (and we know there are many such) to take

there are more camps located now than is three previous years at as early a date.

conversation with a leading lumberma the other day he said his firm would reduce it cut from 35,000,000 feet to 30,000,000 feet, bat but it was truly astonishing to him to see the general disposition there was with other large pperators to be first on the ground, prepared to do more work and stay longer that last year.

If such be the facts it is folly to think that rices will maintain their present high standard after the opening of navigation next year. Bet in the meantime, Mr. Dealer, what are going to do? The extreme caution that actuated youis withholding your orders the greater part of this year places you now with limited and broken stocks. To supply your trade you must buy sooner or later in large quantities. If you dilly dally along as you have been doing you will be compelled to not only meet present but doubtless higher prices.

Death of a Pioneer.

Mr. Edward McGillivray, one of the most widely known commercial men in the Ottawa valley, died on Nov. 24th of paralysis of the brain. For nearly fifty years he carried on a large wholesale and retail trade, and had extensive business connections with the lumber men of the Ottawa country. He was mayor of Ottawa during the years of 1858 and 1859, and was connected with every enterprise for the ad vancement of the place from the early days of Bytown down the present. The Montreal Telegraph Company, the St. Lawrence and Ottawa railway and the Canada Atlantic rail way are among the most prominent enterprises to which Mr. McGillivray lent the Rid of his energatic assistance.

The Largest Load of Lumber.

The Oswego Palladium of Nov. 19th says .-The barge Dakota arrived here last night from Brockville, in tow of the tug Proctor, having on board the largest load of lumber ever brought into this port by any craft. The cargo was consigned to Page, Fairchild & Co and consist ed of 618,825 feet of pine lumber. The amount of duty paid was \$1,237.65.

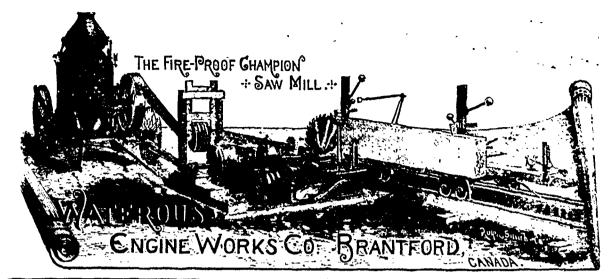
SAYS the Lumberman's Gazette: - Basswood is manife-tly growing in popularity. Not only is it us for box-making and for similar purposes, but i has a large place in moulding shops. It disputes surremacy in this respect with whitewood, and both have a lead over gum. Pine is getting too high in price to put it into mouldings, when cheaper woods wil answer the purpose just as well. It is only the force of habit that continues the use of pine to the exclusion of other good and easily worked woods, and as wood-workers learn the value and availability of whitewood and basswood they will be more extensively employed.

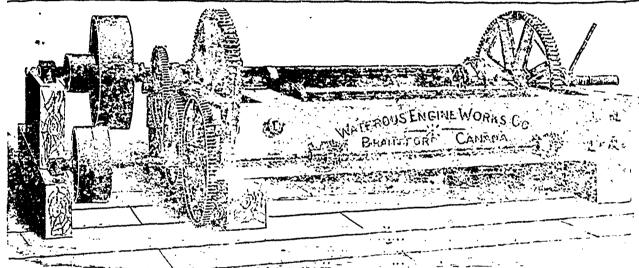
Consumption Cared.

An old physician, retired from practice, having had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitts, Catarrh, Asthma, and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints, and having tested its wonderful curative powers in thousands of cases, has felt it his duty to make it known to his suffering fellows. Actuated by this motive and a desire to relieve human suffering, I will send free of charge, to all who desire it, this recipe, in German, French or English, with full directions for preparing and using. Sent by mail by addressing with stamp, naming this paper, W.A. Noyes, 149 Powers Block, Rochest or, N. Y. remedy for the speedy and permanent cure of

Every observer who walks the streets of a great city, and scans with intelligent eye the colorless faces of more than fifty per cent of the people he meets, can easily agree with us in the statement, that this age, which makes such

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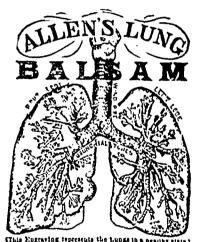
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SIMPLY A LUMBER PILE.

In every business in which a man can engage there are opportunities for exhibiting distingusining recultarities, that of thomselves indicate, to a very great extent, the success of

The practical business men, and one who thoroughly understands the necessities of a successful manufacturing industry will have his buildings and machinery so constructed and arranged as that he can produce the articles of manufacture at the least expense and with the least amount of labor. His employees will partake somewhat of the spirit of their employer, and a neat clean work-shop or factor, will be the result. The various tools for daily use will be conveniently arranged in drawers, or on tool racks prepared for the purpose. The machinery will be clean, the floor about it wil not be covered with an accumulation of chips, shavings, or dust, from the work of the day before, but everything will be as clean as possible to have it, (the chara ter of work done of course to be considered), a spirit of rivalry can easily be instilled into each employee, so that he will be always on the alert to outrival his nearest neighbor in doing nice work, and keeping his machine or tools in better condition. It was once my pleasure to visit a large planing mill and sash, door and blind factory, where a weekly premium was given to the employee who during the week turned out the most perfect work, and kept his machine or tools in the best order. It may perhaps seem like a struch of imagination to say the work rooms, at the close of the days' work, were as clean as the office, but it was literally true, the last ten minutes of each day was occupied by each workman in cleaning his machine or tools and putting them in their proper places. The same avetem of order can be and should be practiced in every manufacturing and mercantile industry upon the basis of the axiom, "Whatever is worth doing at all, is worth doing well." Ιu no industry do we find just such a condition of things with reference to system and order as in the lumber business. We find on going through the yards of the large manufacturer or extensive wholesale dealer of lumber that almost universally there is manifest great care in piling their lumber; their yards are regularly laid out with avenues or roadways on either side of which are huge piles of lumber, num bered, the date of piling stamped on many of them. Especially is this so in the case of hardwood. The end of every board is covered from a half to three-quarters of an inch with the stringer to avoid cracking or checking, the piles are uniform in size, grades and varieties are carefully kept secret and not unfrequently a man of the yard is on file in the office from which any information can be had that could be obtained by a personal visit, save the actual appearance of the lumber itself. The yard is clean, no piles of odds and ends are visible, and everything is in order. But with the yard of the rotal dealer, how strange the contrast. We do not mean to say that all retail lumber dealers are careless, but it is a fact that the large majority of the retail lumber yards of the country are in a confusion that is inexcusable; drives and roadways are blocked with piles of lumber going to decay, thrown there when some customer, perhaps, was looking over stock and selecting such as he wanted, the culls thrown saids where they yet remain. It is not unusual to see in those same yards lumber piled solid : the result of which is moulded and discoloured lumber and if green when piled, or if it stands through a season of rain or snow it gathers water and very soon is unfit for use. So little care is exercised in knoping sizes and varieties separate, and it is not an unusual thing in a retail yard to see a pile of lumber made up of every conceiveable size, length and shape, and the owner has no more idea of what is in it than he has of the cash value it represents. These things are the rule rather than the exception, and it is a remarkable fact that it is so. A rotail lumber yard can be made as at attractive to its customers as can a dry goods store; as a matter of profit it would pay, as a matter of reputation it would pay, as a matter of con-

venionce it would pay. Who is there that would not feel that he was

from a clean, straight pile than if the same was taken from a pile of odds and ends? The same rule applies to a lumber yard as to a store, and who is there that does not expect and is still willing to pay more per yard for cloth taken from the shelf than for a remnant of the ea no pieco that would answer the same purpose? From every standpoint it will pay to keep a lumber yard in order .- Lumber Trade Journal.

CARE OF BELTING.

This is of the utmost importance in all factories, and they should go of the best material, and receive the best care. No bult should be allowed to sway from side to side on pulleys Where leather is used, the while running. bilt becomes atretched or one side. The belt thould be cut and spliced with a nice scarf lap, and well glued and fastened. Many times that would save the price of a belt, and much more than that in the necessary delay that follows, which would cover the expense of many belts. The best leather belting will stretch more in some places than others. All this class of belts are stretched and made from first-class leather. and when first applied, will run very well, and do well in a cold dry climate, but with use and atmospheric action, some portion will become strotched, and if allowed to run so, grow worse, and fly of the pulley, and many times wind around the shaft, breaking the belt, with other expensive machinery, which might have been avoided by a little labor at the right time. Rubber or canvass is not subject to the above rouble; but they have their faults. Many times a leather belt can be kept straight by using some soft dressing upon the hard places of the belt. Apply as often as there are signs of its stretching crooked Always apply the dressing to the hollow edge of the belt; this will soften the leather and cause it to stretch and straighten. This should be done to all new leather belts, when first stretched, at any time when the belt becomes crooked, and will overcome one of the great troubles with leather. Another is the way in which the belt is join-

ed together. This has been a great problem to solve; that is, to fasten a belt, so that it can be readily taken up, as all belts will stretch and become too slack. It seems to me what is required is a fastener light and strong, that the bult may be fastened together in the shortest space of time: One that will leave both sides of belt as near alike as possible. One that will present as little surface to the pulley as can be. One that will hold the belt the firmest. Ohe that can be used where tighteners are used. One that will not cause the tightener to jump Such a fastener would be of more intrinsic use to factories and mills than anything now in use There are but few fastenings now in use, but what there are objections to. Lacing is about as old as anything that is used. The objection to this is its liability of stretching, allowing the corners of the just to catch any obstacle that comes in contact with the belt, causing the lacing to give way, as some parts of the string will stretch more than others, and thus make the belt crooked. Then, there is the extra thickness to run over the pulley, and the less surface to come in contact with pulley, causing the belt to slip there more than elsewhere; this cuts the lace, and it gives way on one side tear ing out the holes. Whe e lacing is used, the joints should be closely watched, and as soon as the lacing becomes stretched, or to show : n signs of giving away, the joint should be tightened up. Many times new lacings would not be required, but by drawing up the lace, it would straighten the belt, and cause the wear to come on .ew places of the lacing.

Do this when the mill is shut down, thereby saving the expense of having a portion of the nachinory idle in working hours. Rivets are good used in connection with the best glue, but rivets alone are objectionable, the same as of lace in making a thicker place in the belt. causing it to jump. To mend the belt, as it should be, with the above, it takes time and causes much delay. Then comes the expense, as they are mone expensive than stude or hooks. as the belt requires to be cut or punched for them. This weakens the belt, causing it to give away in short time, by tearing out the ends, and in a short time the belt needs a piece spliced

pay to handle belts in a slipshod way. Many men have been loroed to close up business on account of the use of poor belts. They buy them because they are the cheapest at first, but they are dearest in the end. It is not always the dearest that is the best or the best that lasts the longest; one man may use a thing as long again as another. Get the best, and take the best care of it, then it will be the cheapest Belts should be watched as closely as any part of the machinery, as it is not alone the first cost, but the many delays they cause. - Lumber Trade Journal.

SOUTH AMERICAN LUMBER EXPORT

The export of lumber to South America, says the Monetary Times, is an important business. Forty-seven vessels laden with lumbor cleared from Montreal during the sesson of 1885 bound for the River Platte. Six of them left in June, twelve in July, nine each in August and September, ten in October and one on November third. Their cargoes varied from 275 000 feet to 1,186,000 (carried by the Gloaming) and the total cargoes of these amounted to 26,465,543 feet, all pine. Twelve vessels sailed during the season from other ports on the St awrence to the same destination, carrying 54,000 feet of pine, 4,825 000 of spruce and 668 spars, besides small stowage. There were, with two exceptions, loaded by the Export Lumber Company. We remark, besides, the sailing of the Aspetogan, on Oct. 20th, with 402,600 feet pine, for the west coast of South America. A recapitulation gives the following result:

Pine 26,519,543 Spruce..... 4.825.000

31,344,543 ft. Small atowage..... 526,828 pcs.

Last year was the only one which equalled the palmy days of 1873 for this trade, but the present sesson is not far behind. We give below a comparison for the past sixteen years:-1885 31,344,543 1884..... 36.038.548 1883 18,768,652 1882.... . . 24.419.827 1881..... 16.147.941 1880 10,420,080 1879 12,476,150 ... 10 855.240 1878 1877 ... 8,787,928 1876 8,437,000 1873 10.123,000 1874 ... 16.262.293 1873 36.073.919 1872 ... 28.234.966 1871 . . 10.005.933 25,145,183

FORESTS AND CLIMATE. The third number of Petermann's Mutheilun-

gen for this year contains an article by A Woeskof on the influence of forests on climate. The commencement of a scientific investigation of this subject was made when the Bavarian forest meteorological stations were established. and when Prussia, Alsace-Lorraine, France. Switzerland and Italy followed the example. As a general rule it may be laid down that in the warm seasons, as between forests and places close at hand which are treeless (1) the temperatures of the earth and air are lower in the former, (2) their variations are less, (3) the relative humidity is greater. After examining observation as to evoporations, Herr Woolkof states that the influence of forests in diminishing evaporation from water and the soil is so great that it cannot be accounted for alone by the lower temperature of the hot months, the greater humidity, or even by the shade. An important influence which has hitherto been but little appreciated is the protection from the wind afforded by the trees, and this the writer regards as more important than all the others together in reducing the degree of evaporation. With regard to the influence of the forests on rain and snow fall, there is yet only a single series of observations supplying comparative statistics and extending over a sufficiently long period. These were taken in the neighborhood of Nancy, and they show an important influence of forests in increasing the rain fall. It might appear that the effects of forest on rain in the

small, for the difference between the temperature and humidity of the forest and the open is very little, and quantity of moisture in the atmosphere is small. But the obsevations show that it is at the time of the year that forests get much more rain. This the writer attributes to the clouds being lower, the resistence which the forest offers to the movement of the air and to the moist west wind. Forests retain rain by the undergrowths of grass, moss, etc., much better than open ground, and let water off superficially only after a heavy rain fall; the remainder filters upward slowly, and much of it is used for the evaporation of trees. Although forests, especially thick, luxuriant forests, cannot exist without certain supplies of moisture, yet it is the same to them when the supplies come, for they retain what they get, and use it over a long period. One example of it is the Lenkoran forest, on the west coast of the Cas. pain, where the vegetation is more luxuriant than in any other part of Europe, yet very little rain falls in summer; but the rain fall in autumn and winter is great. The water 18 stored up by the forest, and is used in evapor. ation during the heat of summer. Humidity of the atmosphere, however, is not consistent with hig' temperature, as the Red Sea snows; but in the forests the humidity is due to the evaporation of the leaves-in other words, to a process by which heat is converted into work, and hence the coolness.

Herr Woulkof then endeavors to ascertain the influence of forests on the climatic conditions of their neighborhoods in the western parts of the Old World, between the 38th and 52nd degrees north latitude, the places selected being in all cases in the open. Thus for the 52nd degree eight stations are taken between Valencia in Ireland on the west and the Kirghiz steppes on the east, for the 50th, Guernsey on the west, Semipalatinsk on the cast, and thirteen stations, and so on for each two degrees of latitude, to 38°. The general result of observations in fifty stations in six different degrees of latitude is that in Western Europe and Asia large forests have a great influence on the temperature of places near them, and that by their influence the normal increase of temperature as we travel eastward from the Atlantic ocean to the interior of the continent is not merely interrupted. but they give places far removed from the coast a cooler summer than those actually on the sea. A striking example of this is Bosnia. An examination of the statistics show (1) that in Bosnia the summer is 1.5° to 4.5° cooler than in Herzegovnia; (2) even on the island of Lissa, in the full influence of the Adriatic sea, the summer temperature is more than a degree higher than that of Bosnia, which is separated by lofty mountain ranges from the sea. Bosnia owes this comparatively cool summer to its great forests, while Herzegovnia is almost disafforested. To sum up: Forests exercise an influence on climate which does not cease on their borders, but extends over a larger or smaller adjacent region according to the size, kind and position of forest. Hence man hy afforestation and disafforestation can modify the climate around him; but it is an extreme position to hold that by afforestation the waste places of the earth can be made fertile. There are places incapable of bring afforested, which would not give the necessary nourishment to trees.—*Ex*.

AN OLD NORWEGIAN WOODEN BOOK.

From Scandinavian rogions we sometimes hear of wooden antiquities being disinterred, which ages have swept over obliviously, but which when brought to light are of great interest, as connecting links between the present and the past. Sometimes it is a ship but the latest discovery, though infinitely smaller, is even more curious and admirable. The description is from St. James' Gazette: process of restoring a characteristic old wooden church at Hopperstad, in the Hardes district of Sogne, in Norway, has brought to light an interesting Norwegian mediæval relic. In a closed niche a book, consisting of six wax tablets, was found careful y enclosed in a casket of wood and leather. The tablets are of boxwood, covered with wax, each tablet having getting a better quality of lumber if taken on, which should be done neatly. It never did climate of central Europe in winter would be a thin border, so as to bluder the tablets from

nicking together on closing the book. This line to beyond the North Saskatchewan, 400 or precaution has helped to keep it in excellent 500 miles. Nearly all this territory is good preservation. The contents are chiefly draw ings, made by a fine style, representing scenes from village and rural life. At the end there is a large catalogue in Latin of various kinds of animals, with a translation into old Norwegian; and from this it has been conjectured that the greater portion of the book dates from the close of the thirteenth century. But there are indications that part of the book is of earlier date. The tablets are fastened together at the back, and the cover is carved and inlaid with various small pieces of differently coloured woods. The book has been placed in the Museum of Antiquities in the University of Christiania, Mountains, included in the district of Alberta, and it is intended to publish it shortly in fac-

AN IMPORTANT RAILWAY

The late driving of the last spike on the Canadian Pacific railway has called forth a large amount of comment, which presumes to be wise, from the American press. This comment, while it admits that the work accomplished is of great importance, is generally adverse to the prospective profitableness of the railway. The men who scribble off their diurnal editorial filling for the morning newspapers assume to know that the country through which the Canadian pacific runs is mostly barren of natural resources. Their idea is that the region is too far n rth to amount to anything for settlement or development. Besides, it is in Canada, and patriotism demands that the new thoroughfare and the territory it traverses be depreciated, though likely as not the young fellows who do the scribbling are recent importations from her majesty's dominions.

The Lumberman aims to be fair in the treatment of foreign as well as domestic affairs. It is fully aware that when American newspapers assert that the Canadian Pacific railway will have meagre resources for local traffic they are in grave error. As a matter of fact the road, for its entire length, runs through territory rich in resources. Much contempt has been thrown at the section north of Lake Superior region, which is described as utterly barren and worthless. The truth is that though the Lake Superior region is rocky, and much of it unfit for agriculture, those ancient and primitive ledges, said to be the oldest of earth, inclose the richest of iron copper, and silver deposits. These have been sufficiently developed, especially in the vicinity of Port Arthur, to prove beyond doubt that the region will one day teem with industry, and that the Canadian Pacific will be freighted with results moving east and west. An important factor of local traffic on this portion of the route will be the rich deposits of building stone that abound Lately the finest marble of he Scotch variety, has been developed near 1'ort Arthur, and is already being shipped. The Rabbis mountain silver mine shows what can be done in the unearthing of this precious metal. It is well known that the most promising silver discoveries have been made on the north side of Lake Superior. Silver Islet and Isle Royal testify to this

Further west, in the Lake of the Woods region, the country is seamed with iron and other minerals. In that district, also, is a wealth of timber, much of which is pine, that has already become the source of a great lumber industry. To the eastward in the re ion of Lake Nipissing, is another vast and rich timber section It is simply nonsense to talk of lack of natural resources for traffic along that portion of the Canada Pacific between Lake Nipissing and Winnipeg. As well might we say that there were no resources for traffic for a railroad running through the mountain districts of Pennsylvania or West Virginia. There are wide areas west of the Lake of the Woods that are awampy covered mostly with tamar: , and there is a heavy growth of poplar on sections; but as the prairie country to the westward becomes settled this awamp timbe: will be utilized for wood pulp, railroad ties, and other purposes, and become sources of

West of Winnipeg is that vast reach of prairie land, spreading a say to the Rocky mountains, 700 miles, and from the American

agricultural or grazing land, and will one day be completely settled with a thrifty population. Already there is a line of settlement and num erous growing towns from Winnipeg to Calgary, near the mountains. The main line of road has several branches striking out into this agricultural region, and others are projected. These serve as feeders of traffic. It is true that the country traversed by the Canadian Pacific lies in a zone of cold winter temperature yet excellent crops of wheat, rye, oats and barley are raised, while cattle do excellently well. The country lying just east of the Rocky is milder than that further east; indeed, the climate there is as fine as can be found any. where. There is nothing in the climate of the Canadian Northwest to prevent its occupation by farmers. How willy it is, then, to talk about th Canadian Pa. not having any local resources of traffic. It will not only have its home traffic, but it has already begun to capture the cattle trade of northern Montana, which naturally belongs to the Northern Pacific.

Thus we see that the Canadian Pacific begins in the populous sections of old Canada, runs through a region of vast timber and mineral resources to Winnipeg, and thence 700 miles to the Rocky mountains, through a rich prairie country, already partially settled, and destined to support at least 10,0@,000 of people. What better situation for way traffic could be conceived? The farming and pastoral population of the prairie regions will want the lumber, the iron, copper, lead and building stone of the Lake Superior country, either in the raw state or manufactured. In process of time the Lake Superior and Lake of the Woods sections will become seats of great manufacturing enterprises, simply on account of the timber and mineral resources that abound in them. The prairie country will be the market for these manufactures. On the other hand the mining and manufacturing sections will want the products of the farms and the pastures to the westward. Thus an interchange of traffic must surely grow up, the like of which exists between the east and west of the northern states. It nature had planned out two sections of country on purpose for connection by railroad, a better hit could not have been made than is apparent in the situation along the Canadian Pacific.

Yet there are other advantages to be mentioned in connection with this great trans continenial thor uglifare. From Calgary to Port Moody the road traverses the Rocky mountain portion of its route, which is also rich in tim ber, mineral and coal. The newspapers on this speak with inexcusable ignorance of this part of the route. British Columbia possesses almost countless articles of raw material that can be worked into commodities for the millions of people who will inhabit the great interior. The coast country will also become famous for its manufactures, while the market will be to the eastward, necessitating railway transportation

Thus has been outlined the native resources for way traffic along the Canadian Pacific. Nothing has been said about through business which all acknowledge must be immense. The endeavor has been to simply correct a misapprehension concerning to natural advantages of the new Canada, which has been gendered of gnorance, or prompted by national prejudice. -Northwestern Lumberman.



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The CANADA LUBRERMAN is filed at the Offices of KREARS SINVEL DRAGON & CO., 154 Landenhall Street, London, Englas ..., who also receive advertisements and supportiylions to this paper.

PETERBOROUGH, Ont., DEC. 1, 1885.

Fully three million feet of logs will be got out of the Cypross Hills this winter.

MR J. M. IRWIN'S Nassau Mills, near l'eter. borough, have closed down for the season. Mr. Irwin has about 350 men in the woods.

MESSES. R. & G. Strickland have shut down their saw mill, at Lakefield, Ont., having hisished their season's cut of lumber.

BOSTON reports more lumber selling this month than October, with less arriving from the West, giving the hope of an advance in values.

IT is stated that there are less shingles it. sight along the Grand Kapads and Indiana ralroad now than at any time within the past five years.

OTITE a large amount of lumber is being received at Tonawanda from Canada by rail now. This is a recent innovation, and promises to add materially to business the coming winter.

It is expected that the Gibson tannery, in New Brunswick, will be reopened next year, when the horalock lands on the Nashwank will have been rendered accessible by the Miramichi Valley railway.

Crown Lands office, one berth of six square \$17 above the upset price. There have been unmusical sounds does not know his business, about 1,000 timber leases already made out.

The little be aw mill closed on Saturday night. It has have a full average run, and did it without serious accident to man or mill. On Friday, Mr. Gidley, the superintendent, asked the boys to hump her up a little, and see what she could do, and the result was a few hundred done on the common saw to de, and each kind feet over 103,000. The highest cut for one day | needs a little different style of filing and setting. was 113,000 and this record would have been | The first is heavy sawing, like resawing timber

Temple, M. P. has furnished a mill site at Bic-town, adjacent to the railway, and will rect an extensive saw mill thereon. Boustown, when the railway is completed, will become a centre of wealth and population. It will be the principal station between Maryaville and Chatham, and with its proximity to the lumber lands of the Miramich must grow rapidly. The soil in that vicinity is said to be of excel lent quality, and so Lole town may be expected to thrive agriculturally as well as otherwise.

As a result of the proposed early construction of the Buctouche and Moneton railway, Mr Alexader McLean, of Scotch Settlement, will immediately proceed with the erection of a steam rotary mill, 35-horse power, with a capacity for cutting 10,000 to 15,000 feet of lumber per day. There is an abundance of hard and soft wood timber in the Scotch Settlement. and, in fact, at many points along the proposed line, and no doubt that section of country will reap a great benefit. The tunber embraces spruce, hemlock, pine, birch, beech, maple and ash, all in large quantities. The latter woods are in great favor with furniture manufacturers, and the supply in this district is so good that a prominent furniture man has intimated that a furniture factory is among the possible indus tries of the near future .- Moneton Times.

FILING SAWS.

One of the most amountant things in the care of circular saws is filing.

This care is necessary for all saws. No matter of what kind or size or style this remark is applicable to them all. Saw filing is an art and an art that but few attain to in perfection. Saw filers may be graded about like this, good for nothing, very poor, poor, passable, fair to good, good, very good, and perfect. The last named quality is not often found. The greatest number will be found among among the classes passable and fair to good. I think more might attain to the higher grades if instead of hurrying the job through they would stop and see what they are about at every touth they file. If there is anything in the world you need to give your whole attention to while you are about it, it is filing. No one can tell stories, or smoke, or cat apples, and file a saw well at the same time, for either one or the other will suffer very materially during the operation.

Never by any means let the file rest on the saw during the back stroke. A little pains taken for a short time will overcome the tendency to let the file rub when being drawn towards you. It spoils a file quickly, as well as indulges you in a bad habit which one cannot too quickly overcome. The saw needs to be clamped firmly just below the bottom of the teeth, so there will be no vibration of the plate when filing. The clamp needs to be the right height to fit the filer. It is a gross error to have a clamp stationary where there are several persons using it, because each person has a little difference in height, and so each person filing needs to adjust the clamp to suit himself.

N w hold the file firmly and push a good steady stroke, first filing up the front of the to the quare, keeping the file well into the bottom of the tooth to keep the length and preserve the shape, or correct a badly shaped tooth, for it is one of the good qualities of a nier to keep every tooth just alike. Avoid by all means making the saw produce the sounds FORTY-FIVE square miles of timber leases represented by ky yark, ky youk, ky yere sold on Nov. 18th, at the New Brunewick yarouick yick. No screaming should over be indulged in or allowed by a filer, and any filer miles on New Canaan brought \$35 per mile, that allows himself to produce those horrid Set that down in your note book.

Now after you have filed up the front nice, file just enough from the top to give it an edge and no more, and here also let the file go to the bottom of the tooth to keep the form good.

There are a few kinds of sawing, or perhaps I should say different kinds of sawing, usually

THE Fredericton, N. B., Farmer says Mr. should be swaged. This if properly done keeps the outside point of the teeth full and sharp. Swage first and then file and then give it just a trifle of set, and everything clee being equal, if a saw does not run well there a trouble some where. For this kind of work a tooth needs to be filed square across both front and back, and with such saws we can file all from one side. In being this it is necessary that after one tooth in filed, the next one shall take the place of the one that has been filed.

I know it is the common custom to file up bout four teeth, and then move the saw along and file four more. In doing this each one of the four teeth have a different bevel on the front side. From the position one stands in during the operation it is impossible that he hould be otherwise and so we generally get about as many different bevels as there are wth in the saw.

This is all wrong and no wonder with such tiling that there are so many saws that do poor work.

Another kind of sawing is that of sawing molding stock and sawing stock for matching machines.

In this kind of work it is very seldom wo need more than a 12 or 14 inch saw, and a 12 gauge saw with 20 teeth is about the style that is wanted. For this work we should file square across on the fronts, and drop the hand a little on the back of the tooth, so as to give the edge of the tooth a slight bovel and set the saw just enough to clear nicely and no more.

A very nice swage for this kind of saw is a great help to keep the outside points full and share. For common cough sawing there is not that positive necessity of keeping a saw in perfect set, but in sawing molding strips the smoother the stuff is sawed the less stock it takes to finish it up with the molding machine.

For this work the saw should be filed from both sides, and set only enough to clear the saw, using a swage [very nicely made] with care to keep the outside points full and sharp.

One more specialty in sawing which calls for nice filing is line sawing. This is largely found in what is generally called carriage sawing. This takes in sawing for all kinds of vehicles. light or heavy, drawn by horses. Everything for this work is marked out from patterns either by pencil or timber serund, and many of the lines are straight and the circular saw economizes the work very much. I will say here, I. wever, that since the band saw came into so general use the most of such work is done with the band saw.

To be a good line sawyer it need a large practice and a good knowledge of keeping a saw in first class order. As far as I know, most of the sawyers doing this kind of work file square front and back, and file all from one side, using very little set. Line sawing is a specialty, and a good line sawyer either in carriage or car works ought to be prized. One more specialty and I will close the chapter: clock sawing is a specialty by itself and perhaps there is no kind of sawing in the country that demands and receives such close attention as what we know as clock sawing.

In this work the teeth are filed moderately hooking and very fleaming. The points of the teeth are like needles. They are kept perfectly round and in perfect set, the set being so little that the eye hardly detects it. Everything is made from perfectly dry stock, and it is all short work; it is conderful to see to what perfection sawing can be brought with the advantage of having all clean dry stock, kiln dried to perfection.

There are but few, however, that can so trust their eyes.—J. F. Langdon in Cabinet Making.

MORE HEAVY PINE SALES.

This week another big pine deal was closed in Muskegon, this time Torrent & Ducey being th sellers, and C. H. Cook, of Montague, and W. C. Wilson, of Michigan City, being purchasers. The transfer includes about 23,000 acres, estimated to cut 120,000,000 feet of pine, situated in Chippowa county, in the Upper Peninsula. The consideration is \$150,000. Mr. Cook will very shortly go up north and begin boaten on Friday, had not some wretched pun and splitting up heavy coarse plank for stud-broke loose, and caused a delay of over an hour.

Bole suggeon Independent.

Cook will very shortly go up north and begin house bearing times the erection of a mill which will be ready for pose, that of generating electricity for lighting work at the opening of next season. The mill Quebec. The water is led from the river above will be located near Life Saving Station No. 12 the falls, through a sluiceway, to the edge of a

on the south shere of Lake Superior. The fore going is from the Muskegon Chronicle, which also centained the following :-

"This makes the fourth sale," said Mr. Tor rent, " that we have made from this upper pen insula land this season, in all amounting to over \$200,000. Torrent & Ducey have also recently sold one third of their 31,000 acre tract in Franklyn County, New York, the price paid being \$83,000. In all we have sold something like \$435,000 worth of standing pine this sea-

"You have been making some heavy pur chases also?

"Yes, we have been buying more or less all the yerr. I presume the firms here that I am interested in have bought something like \$550, 000 worth of pine this year. The J. H. Moores and the Manistee tracts were the heaviest, but we have been picking up a number of smaller lots:"

"How does the price of stumpage this year compare with last year's " we asked.

"Well, in the lower peninsula I should say it s a good round dellar a thousand higher than last year. In the upper peninsula it has ad vanced but not so much."

"Torrent & Ducey bought this upper penin

sula land some years ago," we'remarked.
"Yos," said Mr. Torrent, "I think we bought that in '81. We did not get it direct from the Government. It had been bought un several years before. I think we paid about \$4 an acre for it. Cook & Wilson have made a good bargain. It will overrun the estimate on stum If we wanted to manufacture the lum page. ber up there we wouldn't have thought of selling-not at least at the price we get. That northern pine is not quite so good as the timber up this river, but it is very good, some of it is excellent."-Lumberman's Gazette.

GLASGOW.

The Timber Trades Journal of Nov. 14th says -The cargoes at present being landed here, included in the last whek's import list, consist chiefly of lower port spruce deals, which appear mostly sound and clean. Some of them no doubt will go into use for goods, packing cases, being a quality of goods suiting admirably for the purpose. There have been during the week no further arrivals of steamers per steam liners from Quebec and Montreal, and the import may be considered as almost closed for the season The week's import at Greenock have been two cargoes of pitch pine and one of greenheart.

The sale at Yorkhill, on 5th inst., was attended by rather a small company of buyers. The catalogue comprised a large assortment of pine and spruce deals, and, compared with quantity offered the proportion sold was small. Still a good many lots were disposed of, and there was bidding for other lote, but being under broker's limits, the goods were withdrawn.

We have to note that there is no mahogany here in first hands at present.

QUEBEC CULLERS' OFFICE.

The following is a comparative statement of Timber, Maste, Bowsprite, Spars, Staves, &c ueasured and culled to date:-

	Į.	1883.	1884.	1885.
	Waney White Pine	3,751,742	2,193.547	2,876,753
	White Pine	7,405,523	3,707,159	2,820,045
	Red Pine	403,111	327,785	73,766
	Oak	1,916,322	772,260	1,660,903
	Elm	809,531	657,919	1,018,932
	Ash	262,448	451,984	287,595
	Basswood	2,244	4,544	P.5
	Butternut	1,118	2,134	3,265
	Tamarao	87,736	19,289	3,622
	Birch & Maple	138,803	202,446	381,085
	Spars	pes	41 pcs	17 pcs
	Std. Staves	680,4.3.26	93.0.1.12	144.2.1.10
i	W. I. Staves	667.3.3.21	200,8.0.19	185,9.3.25
	Brl. Staves	115.7.0.15	9.7.1.0	200.2.0.24
		JAX	ES PATT	on,
k	•	_		

Queboc, Nov. 20. Supervisor of Culters

LIGHT FROM WATER POWER.

The beautiful falls of Montmorency, one of the chief points of interest to the tourist visiting Quabec, are to be utilized for a novel pur-Quebec. The water is led from the river above

HARRIS, HEENAN & Co.

124 AND 126 QUEEN STREET,

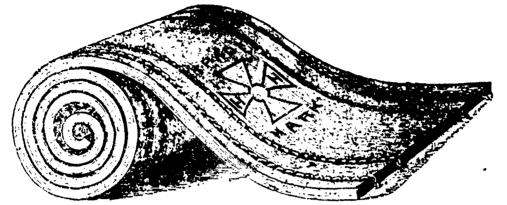
MONTREAL.

Patent Stitched-Steam Power Pressure Stretched-Oak Tanned

four latent Sewed Belt has been lively associated with Mills. To some time. We are national of the superfority over any occandant we have used in an ver 8b years it struckness filtitle, that compared with the sewed lottle save double, its and laces saved. We heartly relactory belt in the market.

Your respectfully,

W. C. MARNIMALL,



PRCA, BENNT & CO., CANAL HORRE SUOR AND NAIL WORKS, MONTRRAL, 15th NOV. 1834. [terra. Harris, Heenan & Co., Montreal. I have plocure in recommending the belting nanufactured by Mestra. Harris, Heenan & Co., I this city. After thoroughly testing it, I find it trackly support to any belting that has come noter my notice and fully equal to all they claim of it, and certainly without an equal for cross or

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

escipice, 165 feet high, and from here through tube to the base. The lower three-fourths of this tube is made of quarter-inch boiler plate on, the upper fourth of three-inch plank. The tremendous pressure exerted by this column d water, 165 feet high and 24 inches in diamder at its base, will turn a turbine wheel at the ate of 600 revolutions per minute, giving a fore of 900 horse power. This is transmitted amost direct to eight dynamos on the floor shore and from these sufficient electricity will be generated to light 800 arc lamps in Quebec, even miles distant. The apparatus is very agenious and extremely strong, and will proably be a great success. There is only one aber place in Canada-Ottawa-where any thing of the kind is in use. Even now the proess is in use at Montmorency, in Mr. Hall's amber mills, where nine lights are run by a Erbine eight inches in diameter, having a force six hundred horse power. The tremendous sseure is shown when Mr. Hall turns on a lydrant, letting out a huge stream of water ith a deafening roar. Pipes are led through be lumber yard, into which water can be turned us moment's warning and flood the extire ace. The lumber mills themselves are run by ower from the falls.—Exchange.

NEW YORK.

The Record and Guide of Nov. 21st says there seems to be a considerable amount of irwularity in the form of business; some opertors complaining seriously, and others making guite a cheerful report. Yard prices are nom-ually unchanged, but in a general way tend to teadiness at present. Advices from the interior have a firmer tone generally, but show less of be positively bouyant characteristics usual at his season of the year.

Eastern spruce really shows nothing of an annual character. Prices on the average range m different from those current on actual sales two or three weeks past, and \$13 to \$15 is a od general quotation for random, but with ewer shadings of the inside figure likely and

the extreme more frequently exceeded on something extra. Special reach out one \$1 to \$1 50 to \$2.00 per M higher, and are not easy to place; owing to the reduced productive capacity, and the indisposition of St. John manufacturers to cut in this way.

White pine has more or less demand for consumption on all the natural local outlets, and some dealers report a considerable amount of animation in the distribution necessary to fill fill their orders. Exporters, too, are fairly represented, but continue to divide their custom somewhat; and this occasionally leads to a little grumbling from quarters formerly accustomed to monopolize most of the foreign trade. There is a great deal of unloading and piling yet to be done before the supplies are all taken care of. We quote at \$15.50 to \$18.00 for West India shipping boards; \$25 to \$29 for South American do. ; \$12 to \$15 for box boards, and \$16 to \$18 for extra do.

Yellow pine is still reported upon in a some what irregular manner, with a general tendency to adhere to the old slow and unpromising statements regarding the balance of this year at least. We quote as follows: Randoms, \$17.50 to \$19 50 per M; specials, \$19.50 to \$21, do.; green flooring boards, \$20 to \$22; dry do. do., \$23 to \$26; sidings, \$20 to \$22 do.; cargoes f.o.b. at Atlantic ports, \$13 to \$15 for rough and \$18 to \$20 for drossed; cargoes f.o.b. at Gulf ports, \$12 to \$14 rough and \$19 to \$21 for dress-

Hardwoods appear to be kept in very good form. There is the stereotyped and, to a great extent, justifiable complaint about difficulty in finding a first hand offering "in just the right shape," but as shippers from the interior have no fixed standard to work upon, it is impossible for them to close adjust their consignments to they simply do the best they can. Sometimes the result is very unsatisfactory; but anything that is attractive and useful generally finds a place at steady prices. Chiece export assortments continue in fair favor. We quote whole-

sale rates by car load as follows. Walnut, \$65 to \$110 per M; white ash, \$33 to \$40 do.; oak, \$30 to \$55 do.; maple \$20 to \$32 do.; chestnut, 828 to \$34 do.; cherry, \$70 to 890 do; white-wood, \$28 to \$35 do.; clm, \$20 to \$23 do.; hickory, \$42 to \$55 do.

BRICK MADE FROM SAWDUST

It may have been noticed, says the Muskegon Chronicle, that during the latter part of marine navigation, considerable sawdust was shipped from this port to Chicago, by Gow & Major. There is a firm in Chicago, with a large capital stock, making brick from this sawdust. We were shown one of these yesterday. The bricks are made of sawdust and clay, subject to a great pressure: are burned as are ordinary bricks and rendered fire proof. They are in size 13x6x4 inches, and have two square inch holes lengthwise through their body, thus making the n but little heavier than ordinary bricks, but extending over four times the amount of space. They are made to stand upright between the outer and inner coats of the wall, thus making the house warmer as well as fire proof.

A GROWING INDUSTRY.

The Sherbrooks Gazelie says :- We are much impressed with the rapid growth which is taking place in industrial pursuits by a recent visit to Thompson & Co's. Bobbin and Spool Works on Factory Street. This is a special trade and we had been under the impression that it was a small one. We were agreeably enlightened. Situated in the upper storey of Twoses Factory, the large wheels, the numerous belts, the extensive array of machines used in the trade and the busy aspect of the workmen, all convinced us that a large business was being carried on. Some ten or twelve workmen are constantly the numerous necessities of this market, and engaged and the amount of work done is considerable.

The creditable exhibition made by this firm at the recent exhibition had already led us to believe that the work executed by them first-class, but we confess we were astonished at staves, Bowen's cove.

seeing the numerous patterns of spools, bobbins and other implements used in cotton and woolen mills and kindred establishments, all made, and from which orders are filled by this firm. The wood used is the best vellow birch: the work is of the best, and the growing favor shown to articles turned out by them is a proof of their skill and care.

MAINE.

Indications point to unusually heavy lumber ing operations in Maine woods during the coming winter. Already large crews have left for the scene of operations and many others are busily preparing to start. While this situation is true generally throughout Maine, it is notably so on the Penobscot, where the loggers are leaving for the northern forests in greater numbers than for years past. An extensive operator informs us that with a favorable winter the cut on the West Branch will be a third larger than that of last year. The incentive of increased operations lies in the general hopeful feeling with regard to next season's trade. coupled with the facts that supplies were never lower and labor is reasonable, while logs have brought good prices during the past season and the quantity to be wintered over is not large. -Industrial Journal.

Rafts Entered at the Supervisor of Cullers' Office Quebes.

Ocr. 20. R. R. Dobell & Co., hemlock lathwood, Hadlow cove.

O.T. 22 - Flatt & Bradley, barrel staves, Sillery.

Oct. 23. John Roche, deals, Garthly Mills. " 26.-Collins Bay R. & T. Co., two drams, sundry coves.

Oct. 26.-Burton Bros, pine, Sharples (Sillery.)

Oct. 28.-Fraser & Serenens, white and red pine, St. Lawrence Docks.

Ocr. 31.-Kelsey & Leonard, four cribs of

RULES FOR MANAGEMENT AND CARE OF STEAM BOILERS.

The following summary is issued by the Hewes & Phillips Iron works, of Newark, N. J., and it comprises useful information to all in charge of ongines.

"The first duty of an engineer, when he enters his boiler-room in the morning, is to ascertain how many gauges of water there are in his boilers. Never unbank nor replenish the fires until this is done. Accidents have occurred and many boilers have been entirely ruined from neglect of this precaution.

"In case of low water, immediately cover the fires with ashes, or, if no ashes are at hand, use fresh coal. Do not turn on the feed under any circumstances, nor tamper with or open the safety-valve. Let the steam outlets remain as

"In cases of foaming, close throttle and keep closed long enough to show true level of the water. If that level is sufficiently high, feeding and blowing will usually suffice to correct the evil. In cases of violent foaming, caused by dirty water, or change from salt to fresh or vice versa, in addition to the action before stated check draft and cover fires with fresh

"When leaks are discovered they should be repaired as soon as possible.

Blow off 8 or 10 inches at least once a week; every Saturday night would be better. In case the feed becomes muddy, blow out six or eight inches every day. Never blow entirely off except when boiler needs scraping or repairing, and then not until fire has been drawn for at least ten hours, as boilers are often seriously injured or ruined by being emptied when the walls are hot. Where surface blow cocks are used, they should be often opened for a few moments at a time.

"After blowing down allow the boiler to become cool before filling again. Cold water, pumped into hot boilers, is very injurious from sudden contraction.

"Care should be taken that no water comes in contact with the exterior of the boiler, either from leaky joints or other causes.

"In tubular Loilers the hand-holes should be often opened, and all collections removed from over the fire. Also, when boilers are fed in front and blown off through the same pipe, the collection of mud or sediment in the rear end should be often removed.

"Raise the safety-valves cautiously and frequently, as they are liable to become fast in their scats, and useless for the purpose intend-

"Should the gauge at any time indicate an excessive pressure, see that the safety-valves are blowing off. In case of difference, notify the the parties from whom boiler was purchased.

"Keep gauge-cocks clear, and in constant use. Glass gauges should not be relied on altogether.

"When a blister appears there must be no delay in having it carefully examined, and trimmed or patched, as the case may require.

"Particu ir care should be taken to keen sheets and parts of boiler exposed to fire perfectly clean, also all tubes, flues, and connections, well swept. This is particularly necessary where wood or soft coal is used forfuel.

"Under all circumstances keep the gauges, cocks, etc., clean and in good order, and things generally in and about the engine and boilerroom in a neat condition.

"Barium chloride, and milk of lime are said to be used with good effect at Krupp's Works, in Prussia, for waters impregnated with gyp-

"Soda ash and other alkalies are very useful in waters containing sulphate of lime, by converting it into a carbonate, and so forming a soft scale easily cleaned. But when used in excess they cause feaming, particularly where there is oil coming from the engine, with which they form soap. All soapy substances are objectionable for the same reason.

"Petroleum has been much used of late years. It acts better in water in which sulphate of lime predominates. As crude petroleum, however, sometimes helps in forming a very injurious crust, the retined only should be

"Rogers' tannate of soda is probably the best preparation for general use, but in waters containing much sulphate, it should be supplemented by a portion of carbonate of . da or soda ash.

"For muddy water, particularly if it contain salts of lime, no preventive of incrustation will prevail except filtration and in almost every instance the use of a filter, either alone or in connection with some means of precipitating the solid matter from solution, will be found very desirable.

"In all case where impure or hard waters are used, frequently blowing from the mud-drum is neces-ary to carry off the accumulated matter, which if allowed to remain would form a scale,'

COOPERAGE.

It was not till the Christian area that man kind learned to make casks of wood. The ancient Greeks knew not the convenience of a wooden barrel; nor the Romana till after the time of Julius Creser. Jars of earth dried in the sun, or burned with fire, made by the potter, answered all the purposes of the modern hogs head, as witnessed the jars in which the forty therves were hid. For portable kegs they used earthen bottles and sucks made of the hide of anunals. The Kelts, dwolling in the forests, made use of tree trunks, hollowed by the decay of the heart growth, which they set upon flat stones, and filled with their harvested grain. As these split they learned to repair by slipping over them rings of other trunks. From this practice they gradually reached the art of making conic boxes, of straight flat sides, hooped in the same way, and tightened by wedges. The Kelts in Great Britain early attained a great skill in the manufacture of these wooden vessels, and the modern art of cooperage reached a high degree of perfection among them. From a very early date, the occupation of the cooper has been divided into several distinct branches The dry cooper makes casks for holding all sorts of goods in a dry state, as grains, sand, flour, etc The tight cooper makes casks or barrel. for liquids, water, There are also general coopers, who prefer to undertake all kinds of work; but, to become a skillful cooper, it is necessary to confine attention and practice to one branch of cooperage, that the workman may be practically familiar with every detail.

In England, and indeed throughout Europe staves and heads are made almost exclusively. The great abundance of other suitable woods has given the American cooper a wider range of stock. The ash and white pine here furnish a greatly superior wood to their brothers. Today the preparation of the staves and heads is principally conducted in the country, where wood it cheaper and labor ressonable. communities, as Townsend, Mass., Brookline, Milford, and Henniker. N. H., are devoted almost exclusively to this business .- Cooper's Journal.

HINTS ON THE CARE OF TOOLS.

The following hints on the best means of keeping tools in good condition, are from the Building and Engineering Times, of London:

WOODEN PARTS.-The wooden parts of tools. such as the stocks of planes and handles of chisels, are often made to have a nice appearance by French polishing, but this adds nothing to their durability. A much better plan is to let them soak in linseed oil for a week, and rub them with a cloth for a few minutes every day for a week or two. This produces a beautiful surface, and at the same time exerts a solidifying and preservative action on the wood.

IRON PARTS.-Rust preventive.-The follow ing receipts are recommended for preventing rust on iron and steel surfaces:

1. Caoutchouc oil is said to have proved officient in preventing rust, and to have been adopted by the German army. It only requires to be spread with a riece of flanuel in a very thin layer over the metallic surface, and allowed to dry up. Such a coating will afford a security against all atmospheric influences, and will not show any cracks under the microscope after a year's standing. To remove it, the article has simply to be treated with caoutchous oil again, and washed after 12 to 24 hours.

2. A solution of India rubber in benzine has is necessary to protect them by means of some been used for many years as a coating for steel, iron and lead, and has been found a simple means of kesping them from oxidizing It can be easily applied with a brush, and is easily rubbed off. It should be made about the consistency of cream.

All steel articles can be perfectly preser ved from rust by putting a lump of freshlyburnt lime in the drawer or case in which they are kept. If the things are to be moved (as a gun in its case, for instance), put the lime in a muslin bag. This is especially valuable for specimens of iron when fractured, for in a This is especially valuable for moderately dry place the lime will not want any renewing for many years, as it is capable of absorbing a large quantity of moisture. Articles in use should be placed in a box nearly filled with thoroughly pulverized slaked lime. Before using them, rub well with a woolen cloth.

4. The following mixture forms an excellent brown coating for protecting iron and steel from rust: Dissolve two parts crystalized iron chloride, two antimony chloride, and one tannin, in four water, and apply with a sponge or rag, and let dry. Then another coat of the paint is applied, and again another, if necessary, until the color becomes as dark as desired. When dry it is washed with water, allowed to dry again, and the surface polished with boiled linseed oil. The antimony chloride must be as nearly neutral as possible.

5. To keep tools from rusting, take 1 once camphor, dissolve in one pound melted lard; take off the seum and mix in as much fine black ead (graphite) as will give it an iron color. Clean the tools and smear with this mixture. After 24 hours rub clean with a soft linen cloth. The tools will keep clean for months under ordinary circumstances.

6. Put 1 quart of fresh slaked lime, 1 pound washing soda, 1 pound soft soap in a bucket, and sufficient water to cover the articles; put in tools as soon as possible after use, and wipe them up next morning, or let them remain until wanted.

7. Soft soap, with half its weight of pearlash, 1 ounce of mixture in about 1 gallon boiling water, is in every day use in most engineers shops in the drip cans used for turning long articles bright in wrought iron and steel. The work, though constantly moist, does not rust, and bright nuts are immersed in it for days till wanted, and retain their polish.

8 Melt slowly together six onness or eight ounces lard to one ounce resin stirring till cool: when it is semi-fluid, it is ready for use. If too thick, it may be further let down by coal oil or benzine. Ruboed on bright surfaces ever so thinly if preserves the polish effectually, and may be readily rubbed off.

9. To protect metals from oxidation—polished iron or steel, for instance—the requisite is to exclude air and moisture from the actual metallic surface; wherefore, polished tools are usually kept in wrappings of oil cloth and brown paper; and, thus protected, they will preserve a spotless face for an unlimited time. When these metals come to be of necessity exposed, in being converted to use, it

permanent dressing; and boiled linseed oil, which forms a lasting film of covering as it dries on, is one of the best preservatives, if not the best. But in order to give it body, it should be thickened by the addition of some pigment, and the very best-because the most congenial of pigments is the ground oxide of the same metal-or in plain words, rusted iron reduced to an impaliable powder, for the dressing of iron or steel-which thus forms the pigment or red oxide paint.

10 Slake a piece of quick lime with just water enough to cause it to crumble, in a covered pot, and while hot add tallow to it and work into a paste and use this to cover over bught work; it can be easily wiped off.

11. Olmstead's varnish is made by melting? ounces resin in one pourd of fresh sweet lard, melting the resin first and then adding the land and mixing thoroughly. This is applied to the hmetal, wich should be warm if possible, and perfectly cleaned; it is afterwards rubbed off. This has been well proved and tested for many years, and is particularly well suited for planished and Russia iron surfaces, which a slight

rust is apt to injure very seriously.

RUST REMOVERS.—1. Cover the metal with weet oil rubbed in, and allow to stand for 48 hours; smear with oil applied freely with a feather or piece of cotton wool, after rubbing Then rub with unslaked lime rethe steel. duced to as fine a powder as possible.

2. Immerse the article to be cleaned for a few minutes, until all the dirt and rust is taken off in a strong solution of potassium cyanide, say about 1 ounce in a wineglassful of water, take it out and clean it with a tooth brush with some paste composed of potassium cyanide, Castile soap, whiting and water, mixed into a paste of about the consistency of thick cream.

QUEBEC.

The Chronicle of Nov. 7th says :- The large sale of timber referred to in our last Friday's issue was a very prime raft manufactured by Mr. McCann, and comes from French River, Georgian Bay; it was sold to Mesers. McArthue Bros., and consists of 150,000 feet of square white pine, 65 feet average, with about 50 000 feet of waney board of 20 inch average girth. The price, we are informed, was equal to 3:1 to 35 cents all around.

About eighteen thousand standard of first quality spruce ex ship President, loaded at Batiscan, were sold at \$53 f.o.b, ship. Fifty. two per cent. are oddments and 30 per cent. 11

Advice to Mathers

Advice to Mathers.

Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain and cutting teeth? If so, send at once and get a bottle of Mrs. Winslow's Southing Syrup for children teething. Its value is incalculable it will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mittake about it. It corred yeen tery and distribute, colic, softens the gums, reduces infiammatice, and gives tone and energy to the whole system, Mrs. Winslow's Southing Syrup for children teething is pleasant to the taste, and is the perscription of one of the oldest and best female nurses and physicians in the United States, and is for sale by all druggists throughout the work, where 25 centra bettle.

LIVERPOOL STOCKS.

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

	Stock, Nov. 1st. 1384.	Stock, Nov. 1st. 1885.	Consumption for the month of Oct. 1884.	Consumption for the month of Oct. 1585.
Quebec Square Pine	345,000 ft. 529,000 ''	288,000 ft. 468,000 "	253,000 ft.	308,000 ft.
St. John PineOther Ports Pine	33,000 "	32,000 " 59,000 "	80,000 '' 6,000 ''	1,000 "
Red Fine	58,000 **	82,000 "	2,000 **	11,000 "
Pitch Pine, hewn	548,000 '' 432,000 ''	510,000 " 672,000 "	58,000 " 123,000 "	58,000 " 223,000 "
Planks. Dantzic, &c., Fir	55,000 4	104,000 " 57,000 "	13,000 "	41,000 " 17,000 "
Sweden and Norway Fir	70,000 **	58,000 "	27,000 **	9,000 **
"Planks	182,000 44	361,000 '' 207,000 ''	89,000 " 57,000 "	85,000 '' 57,000 ''
" Baltic	. 36,000 "	5,000 '' 52,000 ''	0,000 44	0,000 "
Ash Birch	35,000 "	32,000 " 185,000 "	14,000 ⁴ 66,000 ⁴	8,000 " 139,000 "
East India Teak	38,000 " 31,000 "	183,000 " 117,000 "	33,000 '' 5,000 ''	2,000 **
N. B. & N. S. Spruce Deals	. 31,897 stds	23,007 stda.	0,000 stds.	
Quebec Pine Deals & boards	. 9.446 "	245 " } 8,160 "	6,815 '' 2,583 ''	7,123 " 4,072 "
Do. Spruce. Baltic Red Deals, do	. 3,701 4	4,478 (857 "	1,880 **
Baltic Boardsprepared Flooring	. 40 "	310 " 2,148 "	27 11	56 (1 781 (1

Chips.

THE Rathbun Company, of Descronto, manafacture a disinfectant from sawdust.

BUILDING is active at Calgary. N. W. T, but contractors complain of a lumber famine.

THE Sturgeon River Lumber Company, up per peninsula, Mich., has this season shipped over 10,000,000 feet of deals to French & Co., Quebec.

KENNEBEC river, Me., lumbermen estimate that the cut of logs on that stream and tribu taries this season will exceed the amount put in last winter by 20,000,000 feet.

THE schooner Nellie Starr, from St. John, N. B., arrived at Philadelphia, November 6th, after fighting her way through gales which swept away part of her deck load of spruce.

THE schooner Stephen J. Walls, from Apple river, N. S, for New York, arrived at Vineyard Haven, November 6th, having lost part of her deck load of lath during a heavy galo November 2nd.

EARNEST RICHARDS, of Three Rivers, Canada, on his way to enter the en-ployment of Wright & Ketcham in Midland county, Mich., was killed in a railroad accident on that firm's logging railroad, near Averill.

THE Governors of the Northern States are invited to attend the Southern State Forestry Congress which assembles at Defuniak Springs. Fla, in December to participate in the ceremony of planting and dedicating trees to all the States.

JOHN ARNOLD, employed in Major Walker's mill, Calgary, Alberta, was caught by the feed belt and pulled through a repulley. His face was split through his forehead, nose and lips. It was thought that he would recover.

CANADIANS seem to be particularly unfortunate in the lumber camps. John Flood, from Caledonia Springs, Ont., is the latest victim He was employed by the Thayer Lumbering Co. and was killed on Nov. 12th at Lake City by a log rolling on him.

THE following changes in Quebec firms are announced: -Dissolutions-D. & J. Maguire, merchants and shipowners; James A. Maguire and Charles Maguire, partners. Hall Brothers & Co, lumber merchants &c., Quebec; P. P. Hall, G. B. Hall, W. C. Hall, H. M. Price and Luis F. Peters, partners.—New firms—G. B Hall & Co merchants and lumber manufacturers; G. B. Hall, W. C. Hall, and Alfred E Hall, partners. Hall, Brothers & Co., lumber manufacturers and merchants; P. P. Hall, Herbert M. Price, and Louis F. Peters, partners.

PRACTICAL ITEMS.

Rock or sugar maple is the best material for making water-wheel steps. The logs are cut, and either shaped into step roughly or cut into conveniently sized blocks. The sap must be removed by soaking in fresh running water. A practical millwright cuts a lot of maple and dumps it into the millpond until wanted, when it may be turned to size and put under the wheel before it has time to dry or shrink. For new wheels shipped to a distance, the maple, which has first been water-seasoned and dried, should be turned to size and boiled in a kettle of tallow for a number of hours. Drying maple, which must wear out under water, has an injurious effect upon it. The complaint of steps wearing "down stream," or in the direction of the water pressure, is caused by the wheel being out of balance, or the wheel being crooked, or both.

If the wood-screw be too loose in the hole where inserted, and the sawing machine table. or other article of furniture, needs to be hastily repaired, with no glue at hand, insert a soft pine stick a little less inside than the hole for the screw, and fill the rest of the cavity with powdered resin. Heat the screw sufficiently to melt the rezin as it is being turned in with the crew-driver.

The great trouble in drying lumber quickly has been the tendency to form a hard shell on

the outer surface before the interior caps have been vaporized, this hard shell proventing the escape of the sap. To overcome this difficulty a new lumber drier heats the wood to a tem perature of 225 deg., to 250 deg., where it is allowed to remain two or three hours, when steam is shut off and the temperature of the wood is reduced to about 100 deg, either by cold water or cold air. It is then reheated and cooled as above, the operation being repeated un til the lumber is thoroughly seasoned.

In putting on leather belts always place the ivet head side to the pulley, and for rubber belts place the seam side out or away from the pulleys. Never on a rubber belt. If it is a new one, it will cause the rubber to stick and accumulate on the pulleys, and eventually ruin the belt, and further, when resin has applied for some time it will form a glazed, hard sur face, causing the belt the belt to slip out more than it did before the application was made If a leather belt gets too dry, use tallow or a mixture of castor oil and tallow. Watch the lacings closely, and when you find one giving way, relace it immediately .- San Mill Gazette.

RAPID ADVANCE IN PINE LANDS

The advance in the price of pine stumpage during the past decade has been most wonderful and very many men who owned interest in pine lands, which not many years ago were considered of no extraordinary value, have found themselves the possessors of bonanzas which made them immensely wealthy. The rich men of the Saginaw valley to-day are those who "doubled" in pine lands, and those men living outside the valley who have speculaced in pine. have made greater progress on the road to wealth than those in any other legitimate investment. A most remarkable instance demonstrating the correctness of the above idea is found in the transfer of the timber and plant of Swan, White & Smith, at Muskegon, which was accomplished through the agency of Don J. Leathers, of Grand Rapids, who sold this tract of pine for the late S. N. Wilcox, of Chicago, sir years ago, for \$155,000. Swan, White & Co. have since cut 40,000,000 feet from the trait and now have 80,000,000 feet left. which with their saw mill and one-half interest in the logging railroad, .ney sell for \$425,000 to the Thayer Lumber Company. It has been altogether a grand speculation for those inter ested, and Mr. Leathers may also be complimented for his connection with the transaction. -Lumberman 3 Gazette.

Catarrh-A New Treatment.

Catarin—A New Treatment.

Perhaps the most extraordinary that success has been achieved in modern science has been attained by the Dixon treatment for Catarin tot 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 ure cenefitted, while the patent medicines and other advertised cures never record a cure at all. Marting with the claim now generally believed by the most scientific men that the disease is due to the presence of aving panishes in the disance, Mr. Dixon at once adapted his cure to their extending cured, and the permanency is unquestland, as cures effected by blin four years see are cures still. No one else has ever attempted to cure Catarrh in this manner, and no other treatment has over cured Catarrh. The application of the remedy is simple and can to done at home, and the present season of the year is the most favorable for a speedy and permanent cure, the mejority of cases being cured at one treatment. Suff-rers should correspond with Messes. A. H. Dixon & Son. 30' King street west, Toronto, Canada, and enclose a samp for their treatise on Catarrh.—Montreal Star.

FOR SALE, TIMBER LIMITS & SAW MILL

THE MASKINONGE LUMBER COMPANY offer for sale their property consisting of Saw Mili at Maskinonge Bridge, P. Q., with n quarter mile of N S Ry. Station, also good facilities for shipping by water. Capacity of Mili 80,000 feet per day, water and steam power, saws and belting sil complete. Two hundred and forty square miles of limits situated about thirty miles from Mill, which are intersected by a number of good driving streams, and are rich in Pine Spruce, Cedar, etc. Satisfactory reasons for selling out.

For further particulars apply to

MASKINONGE LUMBER CO. Maskinonge Bridge P. Q STEAM. FEED TO BOILER.

The Hancock Inspirator

Best Ferder known for Stationary. Marine or Locomotive Boilers.

The Injector Perfected!

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

Over 70,000 Now in Use.

MANUFACTURED BY THE

Hancock Inspirator Co'y

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

Manufacturers of Inspirators, Ejectors,
1911

A FULL LINE of all Size Single and Double Belting constantly in stock. All ORDERS Filled same days MANUFACTURERS OF as received. TORONT WARE ROOMS **86 King Street East** Factory and Warerooms: -2518, 2520 and 2522, Notre Dame Street.

MONTREAL, QUE.

Axes & Cross-Cut Saws.

CANADIAN AXES.

Both inlaid and overlaid stocks, 10 patterns, from \$7.00 upwards per dozen.

AMERICAN AXES.

Both intaid and overlaid steels eight patterns, from \$10.00 upwards per dozen.

SILVER STEEL LANCE-TOOTH OROSS-OUT SAWS.

Warrantes to be good temper or will be replaced. Special three square and extra fine cut flat files for these saws.

BLOCKING AND BROAD AXES Of extra shape and quality. Samples of axes and saws sent to any address on approval and for selection.

Gec. Stethem Importer of Heavy and Shell Hardware. Sole Agent Agents Wanted Everywhere.

150 FRONT STREET, EAST, TORONTO.

1818

L3-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.

Market Reports.

TORONTO.

From Our Own Correspondent.

Nov. 23.-The continued mild weather is pro longing the period of building operations much later than last fall, and the result is favorable to all dealers in building materials. Some few cargoes will also leave our docks yet. Shipments, however, fall considerably short of that of 1881, and, as before remarked in previous letters, this was to be expected, as, unless a much larger quantity of our coarser grades moved off this season than fermerly, we had not a sufficient quantity of the better grades to bring up shipments to that of last year. The following statement of the quantity shipped from the docks and sold on our local market is as near as it is possible to arrive at .

25.130,000 feet .00,500,000 420,000 ** Hardwood«..... 1,150,000 " Basswood Sawn lath Sawn Shingles 7,500,000

The above will show a total falling off of about 7,000,000 feet of pine lumber, but the decrease is in shipments, which is about 13,000, 000 below that of last year, so that our loca consumption will show quite a considerable gein, especially when we take into account the fact that the adjoining municipality of Parkdale was included in last year's statement, and this year the railroad station there was made as outside station, and therefore shipments to that place are not included in the present one, so that some 4,000,000 feet more may be safely added to the above, as much the larger part of the shipments to that station are consumed in the city proper. There is also another factor to be taken into consideration as going to swell up the total amount of lumber used here, and that is the quantity landed on our docks and consumed with the rest. So that I have no hesita tion in placing the total amount used up in the city this season at 75,000 000 feet. The decrease in the quantity of codar used is due to the fact that less miles of pavement have been made this season: but the season's trade on the whole may be taken as fairly satisfactory, although the outfie year's sales have been made on low margins, but few complaints are made by retailers es to difficulty in collecting for sales made.

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			*****	18 ft	14 00
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AWATTO.

Black ash I & 2

Freis Our Own Correspondent

Not, 24.-What shall be the outcome of the present political crisis, and what shall be its bearing on the lumbering industries of this country, are questions quite pertinent to the hone. A change of Ministry from Conservative to Reform might mean much as to the tanff;

capitalists more cautious in making invostments. But of course all is conjecture as yet, and though some claim to see a cloud gathering which might prove detrimental to the staple of the Ottawa Valley, there is room for the belief that it will in no way effect the promising prosuset of the trade

Lumbermen from many points on the Upper Ottawa speak of the present fa'll weather as exceptionally good for operations in the woods and that things are going on most satisfactorily. Owners of limits are extending more this year than ever in entrusting log cutting contracts to jobbers, claiming that the work can be done much cheaper by this method than if the operations were carried on solely by themselves. They hold that there is less waste of timber, and that the logs are cut and laid up ten pe cent, chexper than by themselves hiring the men to direct operations. From this it can be plainly seen that more logs can be cut, at a less expense, and with more economy in the matter of waste, and the limit holders are pursuing a policy which will in the and act beneficially towards the trades. Another thing which has been generally adopted within the last few years, is the employment of careful men by many lumbering firms, whose duty it is to see chat no fires occur, which can at all be possibly prevented. As the great slayer of the forests has after all been the fires which periodically occur this vigilance will bring about good results. The fact of the matter is that the lumbermen themselve feel that they must take direct and prompt steps in this matter themselves if their source of wealth is to be preserved, and not wait for legislative action. This is a step in the right direction and recommends itself to everyone who knows the immense havec that has been committed in the past by the carelessness in setting out fires. The saw mills at the Chaudiere are still in full blast, and though it was expected that they would have ceased operations before this, the owners have determined to take advantage of the present open weather and keep the mills going until the severe weather compels them to ston.

OSWEGO, N.Y.

From Our Own Correspondent

Navigation may be considered closed for the seasou; dealers all have an abundant supply; the assortment is good in everything excep 1x10 stocks, which is very light; demand still

continues very slow and no change in quotations.
Three uppers
Picking 52 00/435 00
Cutting up 24 00@28 00
Fine Common
Common 14 00418 00
Cuils
Sidings, selected, 1 in
13 32 00/33 00
Mill run, 1x10, 13 to .t
Selected 21 00@24 00
Shippers 14 00¢16 00
Mill run, 13x10
Selected 21 00.430 00
Shippers 14 00@16.00
Mili run, I & 1] in, strips 15 00@18 00
Scircted 22 00/130 00
Culls 11 00/013 00
1x7 selected for clapboards 25 00/135 00
Shingles, NXX, 18 in. pine
XXX Cedar
\02
19 W. 1111 1.111 1.111 1.111 1.111 1.111 1.111 1.111 1.111

TONAWANDA.

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CHICAGO.

BY THE CARGO.

The Nothwestern Lumberman of Nov. 21st Cargors to the number of 16S figured SAVE in the port list for the week ending Wednesday-This may be considered a large fleet for the last half of November Receipts thus far this month have been fully as large as in November, might mean much as to the commercial policy 1884, and for one week, at least, larger. Last affecting the Dominson. Many lumbermen year at this time late cargoes were brought in here express a tear that should the present on account of the rush to Missouri river points, tiovernment to defeated this coming session, it out of the yards, on a cut freight rate. This would have a serious effect on the manufacture Near such an incontive does not exist to the 050,130, about 42,000,000 more than there was of lumber, masmuch as it would tend to unsettle extent it did last year. The fact that the on January 1st. As the receiving season is It is more repitition alluding to the dock the present state of things, and would make volume of receipts helds out well towards the nearly closed, and the volume of trade is likely deliveries, but we draw attention to them week

close of the season must be wholly attributed to the fact that yards are shipping steadily and freely to satisfy a consumptive domand.

The larger share of the lumber arriving is going directly to the yards. There have been a number of loads at the sales docks each day, but the busy portion of the market season is A considerable amount of lumber now offered on the market is nick-ups from the mill docks, odds and ends that come in on the fag end of the season. Cargoes of such stuff require some talking before they are sold. Good short piece stuff goes off readily enough at \$9.50 a thousand, but that figure is all it will bear. If the offering is in any way undesirable, the purchaser demurs; hangs off, and finally secures an advantage, or he does not buy. The market during the past week must be characterized as a little heavy and dull. As a matter of fact, it is time to close the season. Both commission men and shippers want to see the end. Navigation is now hazardous, and cargoes always in jeopardy. Besides, the yard men have seen enough of the market this season, and are satisfied with what lumber they have i pile, unless they can get something very desirable. The commission men would like to stop oa 89.50 for piece stuff, which is \$1 a thousand more than it was last year, and a very good figure to winter over. Quotations all around are unchanged.

Quotations on lumber and shingles are as follows :-

Dimension, short, green	Ø39 50
" long green	12 00@14 00
No. 2 boards and strips	10 50@12 00
Modium stock	13 00/2/15 00
No. 1 stock	16 00(42) 00
Shingles, standard	1 90@ 2 0
Shingles, extra	2 05@ 2 25
Codar	2 00@ 2 22
" clear	2 10
Lath	1 30@ 1 45

AT THE TARDS.

There is no marked change in the condition of trade as compared to that of last week either as respects volume or prices. Shipments continue to be heavy for the lateness of the season. A few yards complain of a recent falling off in orders, and are nursing their trains so as to keep up a good show on track, but others report the amount of business being done fully equal to the average in October. Eyesight proves that there is by no means any tendency to stagnation throughout the district. As a general proposition prices between yards are tending to greater firmness, and are higher than a month or six weeks ago by 40 cents to \$1 a thousand. Dealers are holding out for these advances on dimension, 12-inch boards, and fencing. They feel that, since these classes of lumber are getting much broken in assortment, the receiving season is so nearly over, and the promise of the winter and spring trade is so good, it is the part of wisdom to insist on firmer prices. While this is the general feeling there are exceptions in which dealers continue to talk low prices, and act according in their transictions. On the whole values are rising as if they were being housted up, a fraction of an inch at n time, by jack-screws, while an immense weight were resting on them, that tended to force them down the moment the screwing up effort were relaxed. But it is to be hoped the screws will hold, and the superstructure will not fall below the present point, in any event.

There has lately been great inquiry for the lower grades of shingles. Five-inch clears that were bought in the summer for 40 to 50 cents a thousand are now selling well up towards \$1. In fact, this class of shingles appears to be verging towards exhaustion very rapidly. Codar shingles are also still scarce and much inquired

The report of stock on hand November 1st. issued by the Lumberman's Exchange, shows an increase of 26,970,238 feet over the amount in pile on October 1st, but it is 23,007,206 feet less than on November 1st, 1894-that is, in Chicago proper. At South Chicago there 'e 54 593,239 feet in yard, an increase of 31 697,-632 over the stock there at a like date last year. Substract this increase from the decrease in Chicago proper and we will have an increase for the year of about 8,700,000. The stock on hand in Chicago yards November 1st was 665,-

to be well maintained for at least a month longer, it is probable that there will be less lumber on hand January 1st, 1886, than there was at a like date this year.

Receipts of lumber, shingles, etc., from Jan. 1st to Nov. 10th as reported from the Lumberman's Exchange:--

ŀ	Lumber	. Shingles.
1885	46,402,000	22,346,000
1865 1884	45,016,000	26,798,000
PROM JANUARY JAN: 1, 1885, T	o nov. 19, 1885	, INCLUSIVE.
ŀ	RECEI	
)	Lumber.	Shingles.
1685	.612,865,000	717,535,000
1835	761,828,000	829,700,000
Decrease	118,963,000	112,231,000
LAKE RECEIPTS PROM	JAN. 1 TO NOY.	19.
Lumber	• • • • • • • • • • • • • • • • • • •	439,499,000
Shingles	••••	657,068,000
L-Bilion		47.745.000
Wood, cords		27,318
Posts	· · · · · · · · · · · · · · · · · · ·	3,223,872
Railroad ties	·••• · · · · · · · · · · · · · · · · ·	1,804,357
Slabs, cords	• • • • • • • • • • • • • • • • • • • •	29,830
Bark, cords	• • • • • • • • • • • • • •	90,162
Poles	• • • • • • • • • • • • • • • • • • • •	61,806
Spiles		2,000
BTOCK ON HAN	D XOV. 1.	
	1885.	1884

Shingles 386,319,180 Lath 75,214,183 Pickets 2,789,250 Codar posts 537,435 EASTERN FREIGHT RATES.

er & timber.

FROM CHICAGO AND COMMON POINTS ON CAR LOAD LOTS OF HARD AND SOFT LUMBER.

IS MEPBOT SOV. 1.	
To New York	85c.
Boston	4Gc.
Philadelphia	33c.
Baltimore	82c.
Washington.	39c
Albany	32c
Troy	. 82c
Buffalo and Pitteburgh	20c
Shenectady	82c
Wheeling	20c
Suspension B.idge	20c
Salamanca	20c
Black Rock	20c.
Dunkirk	20c
Erie	20c
Toronto	20c.

ALBANY.

ŀ	Anoretions we the Natur are as to	
	Pine, clear, WM	.853 00@55 00
١,	Pine, fourths	. 48 00@10 01
t	Pine, selects	. 45 00@47 00
-	Pine, good box	. 22 00@13 00
3	Pine, common hor.	11 00/219 00
	Pine, 10-in, plank, each	. 00 42/200 45
	Pine, 10-in, plank, culls, each	. 00 23/200 25
7	Pine boards, 10-in	00 23/200 89
	Pine, 10-in. plank, each Pine, 10-in. plank, culls, each Pine beards, 10-in. Pine, 10-in. boards, culls.	00 18/200 90
	Pine, 10-in. boards, 16 ft., * M	99 00 389 00
8	Pine, 12-in. boards, 16ft	28 00/632 00
r	Pine, 12-in. boards, 13ft	00 000000
- 1	Pine, 13 in. siding, scloct	00 81500 03
l I	Pine, 11-in. siding, common	16 00/2018 00
١	Pine, 1-in. siding, select	10 674200 07
- 1	Pine, inch siding, common	19 000015 00
1	Spruce, boards, each.	. 22 000012 00
Fİ	Spruce, plank, 11-in., each	00 006400 20
١,	Spruce, plank, 2-in., each	00 00800 20
. 1	Spruce, wall strips, each	00 10/200 30
ı	Hernlook, boards, each	00 12000 14
' 1	Hemlock, joist, 4x6, each	00 00000 18
١,	Hemlock, joist, 2jx4, each	00 00000 33
. 1	Hemlock, wall strips, 2x4, oach.	00 000000 11
	Blac': walnut, gook, ¥ M	100 62100 11
۱,	Black waluut, inch	100 6150 00
. 1	Black walnut, I inch	90 00630 00
١.	Scaymore, 1-inch	00 004402 00
. }	Seatmone Ainely	23 00(180 00
. Į	Scaymore, & inch	21 00@23 00
1	White wood Linch	33 00030 00
1	White wood, finch	10 000 10 00
J	Ash, second quality, ? M	90 000393 00
1	Cherry, good, * M	25 00(750 00
1	Cherry, common, & M	00 000705 00
. 1	One most 30 %	25 00030 00
1	Oak, good, # M	#0 00%42 00
1	Reserved 32 M	20 00425 00
ł	Basswood, WM	25 00000 00
1	Maple, Canada, W M Maple, American, per M Chostnut, W M Shingles, shaved, pine, W M	00 000000 00
1	Wanta American nor 1	25 00(430 00
ł	Chartnut 20 M	20 00/325 00
Į	Chingles should wine 20 11	33 00M 10 00
ł	oungies, suaveu, june, et a	0 0000 0 50
1	2.1d quality	0 00@ 5 00
ſ	cloar, sawed, pine	4 3049 4 50
ſ	cloar, codar, mixed	0 00% 3 00
ŧ	Codar, mixed	0 00@ 3 30
ı	CCUMIA AAAA	0 00% 0 00
ı	hemlock. Lath,hemlock, & M.	2 25% 2 37
ı	Lath, spruce,	0 000 2 13
1	Lath, spruce, "	0 000 2 25

LONDON.

The Timber Trades Journal of Nov. 14th savs :- Trade in London still continues dull, and there is altogether an absence of animation. Values at the Baltic saleroom this week remained on the whole stationary, and we can. scarcely chronicle any movement in either an upward or downward direction. It struck us that whitewood in lower qualities had some what given way in price, while lathwood can now be bought on very favorable terms: a result doubtless of the recent failure of the large importer of this article.

by week as fairly indicative of the present apathy of the trade. Towards this time of year an occasional stimulus is to be counted upon, but last year was without its sensations of that character, being a year of excessively dull trade. This year, bar the war scare, has been even more devoid of such incidents in the con sumption, and the deliveries fall flat as ditch water. Those recorded this week are less on the three chief items, deals, &c., flooring, and timber, than during the corresponding week's consumption of last year, and it will doubtless be so till something springs up from some unexpected quarter to alter the complexion of the Present dock stocks compare favourmarket. ably with last year, but the demand certainly does not. .

There was an unusually large quantity of whitewood submitted in the public sales held at the "Baltic" this week, and we have noticed this apparent plothera of that description. In view of this scenning over-stock, probably due to the falling off in the continental demand, it is hardly a matter of surprise that prices of spruce have not been influenced by the moder ate dock stocks. With the market cleared of Baltic white, the Canadian wood will so an upward tendency, stocks being over there favorable for such a contingency.

Trade does not seem to be improving in the country, where the dulness is, doubtless, intensified by the approaching elections, and until these are concluded we can scarcely expect to see any revival in business. Politics scarcely interfere, perhaps, so much with trade as was the case iv former times; but with everything in such a stagnant condition dealers are glad to avail themselves of any opportunity to discontinue turning over stock at either a nominal profit or sensible loss, in hope that, with the new Parliament, things may take a turn for the better. However this may be, there is undoubtedly a very provalent feeling that business cannot be any worse, and therefore is likely to become somewhat better.

Messrs. Churchill & Sim had a big gathering of the trade to their sale on Wednesday, the large assortment of Archangel to be submitted being one of the chief attractions. was the room itself fairly full of yard representatives, but the approaches throughout the day were occupied by members of the trade, discussing things in general, and the new limited company in particular. There appears to have been quite a rush to secure the shares of this new concern, but till the allotting takes place, which will not probably be until we are next in print, those who ave their name, down will not know if they are among the lucky ones. The whole thing seems to have created quite a sonsation, and as things have gone the promotors and the management generally have every reason to be satisfied.

The St. John cargo ex Eleizer, was fairly well sold, planks fetching £7 and deals 5s. to 10s. less, the wood was sound, but, like most of the deals from the lower ports, the sawing was not of the cleanest description.

Quite a throng of buyers got together when the flooring parcels came under offer, but prices went no better than at previous sales, if anything hardly so well.

LIVERPOOL.

The Timber Trades Journal of Nov. 14th says:-It is very unsatisfactory to note the same unvarying depression week after week shown by the market, and the limited quantity of business done, although it is all in favor of consumers. Fortunately we are not awamped with new importations, but still moderate as they continue to be, they are ample for the legitimate deziands made upon them.

Under these circumstances it is more depressing than usual to learn that a firm on the west coast of Ireland, engaged in the timber trade, has found it necessary to call a meeting of their creditors together, which was held privately in this city on Wodnesday, where the principal brokers are interested. One or two houses in London are involved in the matter, but their amounts are but light. At the time of writing nothing has transpired as to the arrangements or the probable result of the meeting, but it is hoped a fair dividend will be forthcoming.

LIVERPOOL TIMBER SALES.

On Friday last, the 6th inst, during the inal for luncheon at their mahogany sale, Messy. Farnworth & Jaidine offered the parcel of 470 logs of buch timber, just landed per Alette, from Miramichi. The larger sizes were sold readily at good prices as things go at present, but logs under 16 inches went remarkably cheap; in fact 160 logs were withdrawn peremptorily, and were, it is understood, sold subsequently at higher prices than those offered at

On Wednesday, the 11th inst., Mesers. 4. F. & D. Mackay held one of their usual sales of spruce and pine deals, birch and pine timber, and other woods, but with the exception of the few spruce deals and birch timber, per Guldoon, from St. John, N. B., hardly anything was sold, and the proceedings were soon over, no disposition being shown to bid for the Miramichi deals or pine timber.

WEST HARTLEPOOL

The Timber Trades Journal of Nov. 11th says :- The reaction in the importation has visibly effected the general volume of activity in the trade, but in the sawn wood department there is yet seen on hand a considerable amount of business, as the heavy importations recently recorded were chiefly goods of this class, the greater part of which now occupy the quayside, and oven without any material change in the condition of the imports, these alone will provide during the next week or ten days a steady continuance of activity to effect their removal. The stock of sawn wood is rather heavy, certainly in excess of that which we have seen for two or three seasons. Yard orders are likewise scarcer, and although a fair demand is apparent from the goods on the quaysides, the turning point has evidently not yet been reached which places the demand above that of supply. The sleeper cutting mills are doing next to nothing; no imports of sleepers have been recorded for nearly a fortnight, whilst the creosoting work in hand is now very slight.

When a lot of sawn wood goods are circulating plenty of work is invariably seen at those mills at which business of a general character is conducted, and this we find to be the case at the present time, as at two or three of these establishments the men are kept employed beyond the regulation hours. As regards large tumber a brisk trade is doing in Settin oak, several cargoes being sent into the interior as quickly as they can be measured and loaded up; apart from this, however, there is not much going on, orders being very few for pitch pine, Swedish fir, &c. Stocks are light of Quebec timber, such as birch, oak, clin, ash, wancy board pine, nor do we hear of any shipments now expected.

LIETH.

The Timber Trades Journal of Nov. 14th says :- The arrivals of wood goods have been smaller this week, and consist chiefly of steamer parcels of sawn goods, with lathwood and other oddments, the only arrival by sailing vessel being a cargo of whitewood battens from Borga. There are still a few cargoes expected, both from the Baltic and also from Quebec, but the quantity is not large.

There has been less business doing this week from the yards, owing to it being the term week, and the same cause effected the public sale [held on Tuesday, at the east end of the Edinburgh Dock, by Messrs. A. Garland & Rodger. Notwithstanding that there was a large and varied assortment of American and Baltic wood goods advertised to be offered, the attendance of buyers was very disappointing, and there was a great lack of competition among those present. The broker, Mr. James Thomson (Messrs. Win. Thomson & Co.), went faithfully over the various parcels, but the great bulk of the goods had to be passed, and the quantity actually disposed of was very in considerable.

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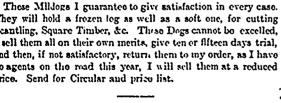
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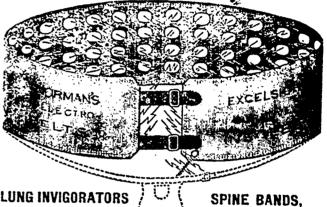
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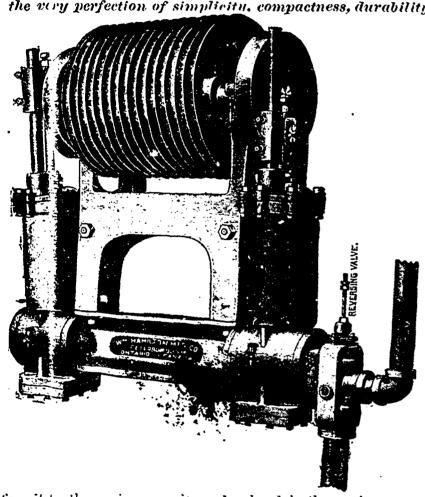
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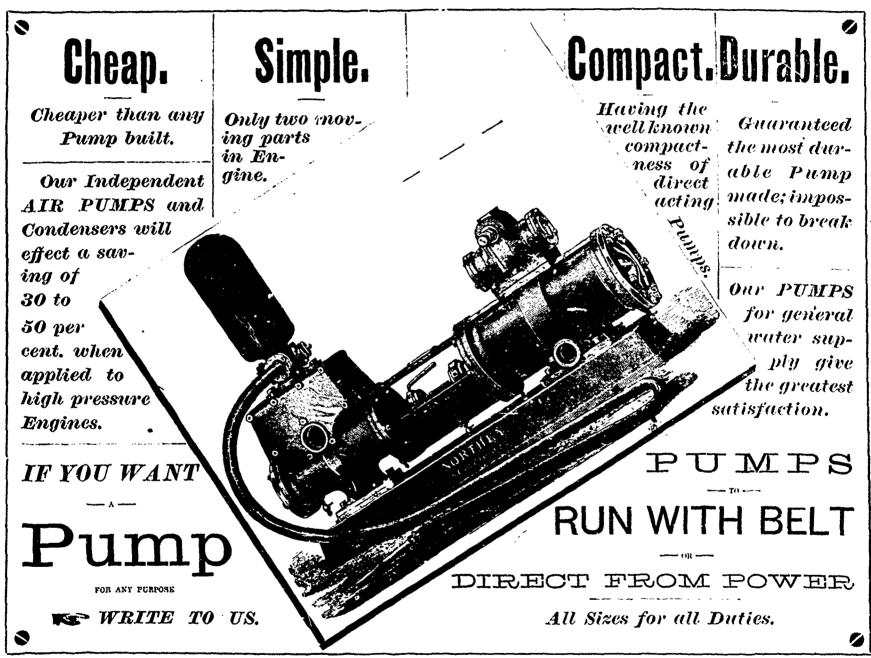
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