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PUBLISHED SEMI MONTHLY.

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

SUBSCRIPTION (\$2.00 PER ANNUM.

VOL. 2.

PETERBOROUGH, ONT., APRIL 1, 1882.

NO. 7.

WHAT WE OWE TO THE TREES.

In the April number of Harper's Monthly Magazine, Mr. N. H. Egleston has a very inter esting and instructive article, entitled "What We Owe to the Trees." As it affords valuable lessons to Canada as well as to the United States, we take from it the following extracts, and will give others in our next issue "

RCHCOLS OF FORESTRY

So important a place have the forests come to occupy in the estimation of European people, on account of their value as sources of fuel and lumber, as well as their relations to agriculture, to climate, and to health, that the care and management of them have become one of the most important employments of private landholders, and of the many ecrporate bodics, including states and kingdoms, which are the possessors of forest domains. The state forests of France, for instance, amount to 3,000,000 acres, it is said, and reach an annual revenue of \$5,-Many of the provinces and departments also are large forest proprietors. Ger many has about 35,000,000 acres in forest, nearly one-third of which belongs to the state, one-sixth to the communes, and somewhat less than one half to private individuals. Other European countries have larger forest areas, with correspendingly large revenues. The recognized im portance of the forest interest has led to the establishment in most European countries of what are known as schools of forestry institutions ranking in importance with our colleges and polytechnic schools. They furnish a course of instruction from two to two and a half years in length. During these terms the pupils are to spend five hours daily in study, and as many more in attendance upon lectures, or to do about twice the work required in our colleges. Taking for illustration the school near Berlin, the faculty embraces a director, who occupies the chair of forest science, with two assistants in the same department, a teacher of mathematics, physics, mechanics, and meteorology, one of chemistry, mineralogy, and geognosy, one of botany, one of zoology, and one of jurisprudence; and, in addition, a royal forest officer as assistant teacher of construction of roads, geodesy, and plan-drawing, and also a chemist as assistant teacher of geology

It will be seen, even from such general statements, that the instruction in these schools in cludes not only the technical or botanical study of forests, but embraces also a complete course in natural science and mathematics, as well as, to a considerable extent, political economy, finance, and jurisprudence. Captain Campbell Walker, chief conservator of forests in New Zealand, giving an account of his visit to the school at Neustadt-Eberswalde, says: "Noth ing struck me as more remarkable than the ex tent and varied nature of the studies required from forest candidates or probationers in Prus, acres were burned over simply to clear the pla, and the number of years they are contented land.

to spend, first in studying, and then in waiting for an appointment." The students at these schools or academics are expected to spend several years, either before or after their graduation, in practical work in the forest, under the watch and instruction of the forest officers, and it is only after five or eix years of such employ ment that they can reasonably expect to receive a fixed and permanent appointment in connecwith the forest service. Yet so respectable and desirable is this employment considered, that it is stated on good authority that a few years ago there were not less than thirty three barons or baronets holding appointments in the crown

forests of Prussia The important place which forestry holds abroad may be seen from the fact that there are nine of these schools in Germany, and one or more in every European country except Great Britain, which has hardly any forests to take care of, while the abundant moisture from her surrounding seas, and her exemption from severe summer heats on account of her high latitude, present her from suffering from the absence of trees, as she otherwise would.

THE WORK OF DESTRUCTION.

In our own country we have gone to the forests in a kind of freebooter style, cutting, and burning more than we could cut, acting for the most part as though all the while in a frulic or fight, until now at lengt', after a century or two of this sort of work, we are waking up to the fact that our once boundless woods are disappearing, and that we are likely to suffer no little loss thereby. But it is only the few who increment in the right direction. In the reseem now to have any adequate sense of our ports of planting the figures make an imposing. The thing to do is to abolish it altogether,
condition as effected by the threatened loss of aggregate. But a liberal discount needs to be. Then trees should be intelligently cultivated. the trees. In a recent publication, issued by authority of one of our Western States for the express purpose of attracting settlers from European countries, the statistics of its great lumber production are elaborately set forth, accompanied by the assurance that the present enormous consumption of trees for this purpose may be continued ten or fifteen years longer before the forests will be destroyed. The coul unconcern in regard to the future shown in this is very noticeable. "After us, the deluge." A corresponding feeling, though working on a much smaller scale, is seen in an advertisement, and of a class often appearing in our older states. "Brace up, Young Man. You have lived on your parents long enough. Buy this farm, cut off the wood, haul it to market, get your money for it, and pay for the farm... The owner esti mates that there will be 500 cords of market And so, all over the country, on the large scale and on the small, the axe is laid at the roots of the trees, and our forests are fast disappearing. It is estimated that 8,000,000 acres of forest land are cleared every year, and that in the ten years previous to 1876, 12,000,000

PLANTING ENCOURAGED.

The very necessities of their situation have aroused the people of some of our Western fore they can fill their place. States to action. In Kansas, Nebraska, and other states liberal promiums have been offered for the encouragement of tree-planting, and instances planters of trees, feeling the need of into the Mediterranean and Dead Sea, them both as screens from the fierce storms that There are hundreds of creeks within 100 miles sweep down from the Rocky Mountains, and as a of Cincinnati that 50 years ago were ample and source of supply for the ties which are constant; beautiful all the year around, and populous ly needing renewal.

ready obtained in regard to the most profit-blo creasing. made for the probable failure of a large percentago of the trees planted. And even with the most generous estimate in regard to the work of decrease of our forest area at seven million lating in the lands, or stumpage.

average, of more than a century's growth, while those we plant must grow during a century be

DESTROYING FORESTS.

In an able article on the subject of forest re! already in many portions of the prairie region a moval, the Cincinnati Commercial says that the perceptible change has taken place, and the eye conditions that affect the Ohio are still more no longer wanders over great spaces without strikingly apparent in the Cumberland. This sight of tree or shrub. Minnesota has her great river nearly disappeared in the heats of Forestry Association, and its secretary reports last summer, and a few weeks ago was so high that between seven and ten millions of trees, as to do frightfui mischief. There was a time were planted in that state during the year 1877, when the water supply was hardly sufficient for of which more than half a million were planted. Nashville, and again a considerable portion of in a single day, "Arbor Day," as it is called, the city was overwhelmed. or tree planting day, the first Tuesday of May the grain, the rails, the bridges and houses that having been fixed upon as the day, and every are swept away, the loss of which inflicts in the owner of land invited to devote the day especial. largest degree impovershment upon the country, ly to the planting of trees. Similar efforts have, but the yellow floods waste the wealth of the been made in other states which are similarly land. There is talk that the Jews will return to situated in respect to a supply of forest. The Palestine. They can not do it. The country great railway companies, whose roads stretch would not sustain a great people. The forests across the treeless prairies, have become in some, are gone, and with them the soil, washed off

with sunfish and silver sides, and that were Tree-planters manuals are published and dis- serviceable in turning mills, that now aiternate tributed freely, with a view to aid those who between dusty guilles and turbid terrents, and would plant by giving them the experience al-, the danger of water famine is constantly in-ready obtained in regard to the most profit-ble creasing. " " The last vestiges of timber trees to plant and the best methods of planting. will be cleared from the Unio salley in the Thus in some places there is already quite a course of a few years if the necessity for the

LAND GRABBING.

One of our exchanges mys that for several planting, what is accomplished as yet is but a years past it has been known that a large area fraction of what needs to be done. It is but of timber land in northern Minnesota, especial the feeble beginning of a cast work. The talk by in the region drained by the St. Louis river is of millions of trees planted. This sounds and streams emptying into Lake Superior, has well. But a good many trees can stand upon been unlawfully secured by lumber operators an acre, and the latest estimates put the annual for the purpose of cutting off the pine, or specuacres. So that Minnesota, with all her ardor business has been stimulated by the building of in this work, has only planted one tree for every the Northern Pacific railroad from the Duluth acre of trees destroyed. An area equal to that district westward through Minnesota and Daof the State of Maryland is every year swept kota, which has opened up a vast demand for clean of its trees. This is a large section to be lumber. The method by which the land taken yearly out of our forest resources. With grabbers proceed is by taking advantage of the all that we are yet doing in the way of tree-pre-emption law. By a liberal application of planting, the balance is largely against us, its provisions a single spectator is able to locate With all the interest and energy manifested by himself repeatedly, and he becomes a permanent the young West on this subject, stimulated by homesteader, as it were, on numerous quarter her most pressing need, we are only planting sections of land, and always where the pine one acre while thirty-five are laid bare by the stands the thickest and best, and is handy to axe and by fire. And we must consider also streams. The way which a single individual, that the work of destruction goes on at an afflicted with the pine craze, will multiply himincreasing rate from year to year as our popula- self for the purpose of covering as much pine tion and our industries increase, and that the land as possible, is a terror to the law. - Lum'ertrees which are relied are the product, on the man's Gazeffe

IN THE NORTHWEST.

We take the following extracts from the Annual Report of the Department of the Interior:-

TIMBER, MINERAL, AND GRAZING LANDS BRANCH, Оттама, 31st Dec., 1881.

SIR, -I have the honor to submit the following report of the timber, mineral, and grazing lands branch of this Department.

Statements showing the revenue derived from Crown timber for the year ending 31st October last; the number of saw mills in the Province of Manitoba, District of Keewatin, and the North-West Territory, with other information respecting the milling interests, and the report of the Crown Timber Agent at Winnipeg, are ap-

An examination of the return from saw mills shows the following quantities of building material as having been manufactured during the year ending 31st October last :-

	rect, B.M.
Sawn iumber	16,094,323
Shingles	4.032,100
lath	GS8,300
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The following new mills commenced sawing during the season of 1981 :-

McLaren & Co., Brandon.

Jonasson, Frederickson & Co., Icelandic

Manning, McDonald & Co., Eagle Lake. W. J. Macaulay, Rat Portage.

During the year a new agency was established for the Saskatchewan District, under the charge of Mr. Thomas Anderson. Instructions were given to the agent on the 3rd of September, but owing to the distance to be travelled in reaching Edmonton, his headquarters, the office was not opened for the transaction of business until the middle of December.

Under your instructions of the 31st October last, I proceeded to Winnipeg for the purpose of allotting ground to the various applicants who had applied for permits to cut railroad timber. As the ground covered by these applications was chiefly in unsurveyed territory, it was nocessary, to prevent conflict, that the limits should be surveyed; for this reason Mr. J. Mc-Arthur and Mr. A. L. Poudrier, both Dominion Land Surveyors, were sent out with small parties to lay off the locations situate between the Brokenhead River and Darwin. The work lasted a little over a month, and during that time over one hundred miles of line were run. While this work was in progress I went west for the purpose of examining into the cutting of timber in the Big Spruce Bush, Township 10, Ranges 15 and 16 west. These townships were surveyed some years ago, but after careful search no traces of the original lines were seen ; it was, therefore, impossible to ascertain whether licensees were lumbering on the sections covered by their licenses, or to know if the contractors for the Canadian Pacific Railway were cutting on Dominion, Hudson Bay, or railroad lands; I therefore, on my return to Winnipes, moved Mr. Poudrier and party from Whitemouth to this locality, instructing him to make a re-survey of the townships in question.

During the time of my stay in Winnipeg, November and December, one hundred and twolve permits were issued, the dues on which amount to \$18,912.75, on which advance payments were made amounting to \$4,238.20. This not including the permit to the Canadian Pacific Railway Company, whose contractors at present occupy all the land, not covered by license or permit, along the line of the railway between the Brokenhead River and Rat Portage, and by whom corresponding dues will be payable.

I have the henor to be, Sir,

Your obedient servant,

L. A. HAMILTON.

CROWN TIMBER OFFICE, Winnipeg, 31st Oct., 1881.

Sin, -I have the honor to submit the following Report of the work of the Crown Timber Office for the year just closed

The completion of the Canadian Pacific Railway to Rat Portage, Lake of the Woods, has opened to the west a very fine tract of pine country. The mills cutting on this lake are the Keewatin Lumbering and Manufacturing Co., Limited, capacity 120,000; W. J. Macaulay & auction sales of last week as detailed below.

Co., capacity 60,000 (c.iminenced to cut 12th October, 1881), and S. H. Fowler, on Rainy Messrs. A. F. & D. Mackay's, of 3rd instant, The cost is trilling, only 25 cents. country. The mills cutting on this lake are the

Lake, which is to be enlarged this winter to a canacity of 6,000,000 per annum.

There are now seven mills operating on the Little Saskatchewan River, which will supply the demand in this section of the country for some time to come.

The Bird Tail Creek has two mills in opera tion, and another will be built this winter about fifteen miles north of Birtle.

As yet there are no mills erected on Shell River, those having limits granted them should be compelled to erect them this winter, as this settlement is very much in need of lumber.

The correspondence for the year stand as fol-

Letters received	1,416 2,184
During the year 366 permits ha	ve been issued
Number of seizures made	161
Value of timber seized	8 48,630
Number of saw mill returns rec'd.	80
Amount of lumber given as sold.	12,483,343 B, M
" manufactured	13,603,140 "
" on hand	1,224,797
Quantity of lumber manufactured	•
in October and in the log	6,000,000

Number of new mills commenced cutting in 1881, four (4).

The following mills have been removed and rebuilt:-

Removed-Scoble & Dennison (late Smart & Co.), from Hawk Lake to Cross Lake, Canadian Pacific Railway.

Rebuilt-Jarvis & Berridge, Winnipeg, now nachinery; Bell & McKay, Morris, burnt 1879; Clink, D. S., Boyne River, (this mill has change ed hands).

The following are prices of lumber at, viz. :-

I have the honor to be, Sir.

Your obedient servant, JAMES ANDERSON. Crown Timber Agent.

THE AUSTRALIAN TRADE.

Messrs. Gemmel, Tuckett & Co.'s latest report, dated Molbourne, January 17th, states that business at auction has been light, in consequence of stock-taking by the principal members of the trade.

AMERICAN LUMBER. - No sales of any note to afford quotations.

SPRUCE DEALS.-Sales made ex Lorenzo, at 3 9-16d. to 3d. per foot 9×3. The market is heavily stocked. The Priscilla has arrived from St. John's with 11,927 pieces, which will further depress the market.

Messrs. C. S. Ross & Co.'s circular reports a similar limited amount of sales, and but little change in prices. The arrivals have been the Ispahan, Loch Tay, Rodney, Scrapis, Sarah Grice. British Ambassador, Leamington, Melanope, Allanshaw, and Gulf of Carpentaria, from Great Britain, with red deals, flooring, etc.; Staranger, Solide, Svea, Clty of Amoy, Johannes Rod, and Levant, from Baltic ports, with red deals; Lorenzo, from Miramichi, with spruce deals Glengarry, from Quebec, with red pine deals, pruce deals, flooring, t. and g. ceiling, clear pino, shelving, laths, &c.; Priscilla, from St. John's, with spruce deals and laths : Rose M. from Humboldt Bay, with redwood; Kate Davenport, from Astoria, California and Excelsior, from Burrard Inlet, and Xemia, from Puget Sound, with Oregon timber and laths.

LIVERPOOL.

The Timber Trades Journal, of March 11th, says:—There has been a slightly better business done during the past week, although prices are still low, and are likely to continue so as long as sales are pressed upon the market at auction in the persistent manner which has lately been practised. Notwithstanding the very short stock of spruce deals on hand now as compared

when St. John, N.B., spruce deals sold as follows. -

Another cargo sold as follows—

10 to 20 ft. 3×11 8 7 6

12 "15" 3×11 7 17 0

9 "11" 3×11 7 15 0

10 "26" 3×9 7 15 0

12 "15" 3×9 7 10 0

9 "11" 3×0 7 6 0

16 "20" 3×7 7 5 0

12 "15" 3×7 7 2 0

12 "15" 3×7 7 2 0

12 "15" 3×7 7 5 0

12 "15" 3×7 7 5 0

12 "15" 3×7 7 5 0

12 "15" 3×7 7 5 0

12 "15" 3×7 7 2 0

9 "11" 3×7 6 17 0

9 "24" 3×13 to 10 7 5 0

9 "26" 3×10 & 12 7 5 0

9 "20" 3×8 7 2 8

With an average of about £7 11s. por std.

Sawn aprice timber, 9 to 20 ft. 5×5 to 7×8 at 10 [d. per foot. Another cargo sold as follows-

foot. Spruce deals 4×5 to 9, 10 to 26 ft., at £8 5s. per std. Spruce deal ends at £6 12s. 6d. per std. Spruce palings 5 ft. 3×1 at 62s. 6d. per nille. 4 ft. 3×1 at 62s. 6d.

Prime St. John, N.B., birch timber-

10 to 20 ft. 20 to 22 in. deep 2s.	7ld, cub. ft
10 " 25 " 17 " 19} " 28.	3 d ''
	. id - "
	111d "
	101 "
	834 4
	80 "
	64d "
	6[d "
11 " 30 " 16 " 18.	eid "
	6jd "
	44d "

GLASGOW.

The Timber Trades Journal, of March 11th, says the arrivals of timber at Clyde ports during the past week comprise one cargo of Moulmein teak, one of pitch pine from Doboy, U.S., and sundry parcels of maple, walnut and ash per steam liners from New York. At Grangemouth there have been two cargoes imported, one from Skien, consisting of spars, timber and props, and the other from Meniel of timber, deals, eleepers,

The public sale held at Yorkhill Wharf, Glasgow, on the 2nd inst., as undernoted, was quiet, and the attendance not quite as large as usual, the demand apparently being chiefly for present requirements. Of the goods catalogued a considerable portion was withdrawn, prices offered not reaching broker's limits.

This auction sale following so close upon the ast may account partly for the limited business done. Spruce deals, being very scarce, sold at good prices. The market stands greatly in need of spruce deals as they are now all or nearly so out of first hands.

AUCTION SALE.

On 2nd inst. at Glasgow, Messrs. Singleton, Dunn & Co., brokers :-Quebec 3rd sprace deals-

13 ft. 0×3 11 dd 11 " 0×3 11 dd 10 & 11 " 9×3 11 dd per cub. it. 11 " 2×3 114d

10 & 11 " 9×3 114d

Miramichi, N. B., spruce deals (av. 2nds)—
12 ft. 9×3 124d "
9×3 114d " 12 ft. 9×3 124d 13 & 14 " 9×3 114d 11 " 9×3 114d 10 " 9×3 114d 16 " 7×3 10d 13 & 14 " 7×3 10d 12 " 7×3 10d 12 " 7×3 10d Miramichi 2nd pine deals-10 to 12 ft. 9×3 131d 12 to 24 " 7×3 121d Richibucto pino ends-3 to 8 ft. 7/18×3 103d Quebec 3rd yellow pine deals-12 ft 9 x 3 12 dd 12 to 16 "7/11 x 3 11 dd Quebec 1st yellow planks-9 & 10 ft. 7/21 x 2 (chiefly 7/10 in.) 1s. 11d. per

The accidents of life are unavoidable, but should a writer accidentally get hold of a bad pen, the remedy is easy procure one of Esterbrook's Steel Pens. The Stationers have them. Brown Bros., Toronto, wholesale dealers.

Quebec Timber Company

The Mail says that another proof of the fact that Canada is attracting more attention abroad than ever before in her history, is furnished in the fact that there is now before Parliament a Bill entitled the Quebec Timber Company Incorporation Bill, applied for by Scotch capitalists, who propose investing a very large sum of money in timber lands, mills, and shipping. Though there may not be many of those "tall chimnoys' in connection with this enterprise, it involves an expenditure of money that must benefit all classes of the community.

JOHN PRESQUE, a government timber thief, was examined at Milwaukee, Wis., March 6, and held for trial in the United States Court, in the sum of \$500.



(Hydraned Oil)
An artificially digested Cod Liver Oil.

For Consumption, Winter Cough, Af-fections of the Chest and all Wasting Diseases.

Prescribed by the leading physicians of England, the United States and the Dominion of Canada.

A WONDERFUL FACT.

BULK OF DEEPARCE BY THE HYBROLENE C. THE MIXES WITH A GOVERNMENT OF THE MIXES WITH A GOVERNMENT OF THE MIXES WITH THE SHORT OF THE MIXES WITH THE

For sale by all Druggists.

LUMBER WANTED.

50,000 Feet Tough White Oak, 50,000 Ft. White Ash, 50,000 Feet Rock Elm, all first quality; quote price at Avr station; to be delivered by August, 1882. Specifications furnished on application.

Ayr Agricultural Works, AYR, ONTARIO.

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I offer Timber Limits Nos. 94, 102, 144, 145, 157, 163, 176 and 152 on the North Shore of Georgian Bay, for sale either "en bloc" or in single Townships of 36 square miles each.

GEORGE J. THOMPSON, Winnipeg, Manitoba.

${f J}.~{f T}.~{f LAMBERT},$

Lumber and Commission Agent.

FOR SALE.

150 Mlls. White Pine, 1 x 10 Stock.
175 " dc 1 x 12 "
11 " do 2 x 10 "
20 " do 2 x 12 "
140 " do 1 inch Siding
20 " do 1 "
40 " do 2 x 10 Joists.
16 " Cedar, 3 x 0 "
19 " Basswood, 11 inch.

APPLY AT THE OFFICE, WELLINGTON STREET, OTTAWA.

LOWEST PRICES FOR PURE MANILLA ROPE

All sizes. American Lath Yarn. Oakum. 9-16 and 5-8 inch Proved Chain. Wrought Spikes. Rafting Augurs. Millwrights Tools, &c.

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Mill Supplies always on

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First Prize, Provincial Exhibition	itawa, 1875
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First Prize, Provincial ExhibitionLe	ondon, 1877
First Prize, Industrial ExhibitionTo	pronto, 1879
First Prize, Industrial Exhibition To	pronto, 1890
International Modal, Cantonnial Ex. Philade	alphia, 1876



nuino uniess with a STAR on the head of rivets. Send for Price Lists and Di

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

A. NORMAN, Esq.,

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

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

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TORONTO.

CLOG-MAKING AT BOOTLE.

On February 1st Lord Claud J. Hamilton M.P., paid a visit to the works of the Morsey Wood-working Co., Bedford Place, Bootle, and inspected the whole of the processes, the visiting being probably suggested by the circumstance that from time to time extensive purchases of timber have been made by Mr. R. J. Jones, the manager, from the Duke of Abercorn's estate, of Baronscourt, in the North of Ireland. Be sides this personal interest the unique character of the works was itself sufficient to make their inspection well worth a visit. From an interesting report in the Bootle Times we learn that the principal manufacture carried on at these works is that of wooden soles for what are called in Lancashire "clogs," and in France "sabots." Familiar as are the "wooden shoot," few persons would conceive how ingeniously the manufacture of the soles are conducted and how vast are the quantities which are issued daily, weekly, and hourly from these works. Lord Claud J. Hamilton first visited the yard, where there are usually stored from two to three thousand tons of timber. The native timber is first stripped of its bark, the foreign logs being already barked when imported. The logs are then raised from the yard by a crane and cut up by circular saws into segments averaging about a foot long. These segments are next cut into planks of convenient size, a dozen saws working at once, and the planking being effected with mar, ellous rapidity, about 60 tons of wood being cut up into clog soles every day. On the side of each plank a metal gauge is laid, and a girl with a pencil roughly outlines the size and number of soles which can be made from it. The planks pass on to a band saw, where they are cut up into blocks with the required curvature for a sole. Thence they pass to the roughing machine, which roughly shapes them. An other machine cuts the sides; another shapes the shanks; yet another rounds the heels;, and yet another shapes the toes. They pass next to a revolving cutter, which roughly hollows the upper side of the sole, and subsequently this hollowed surface is smoothed in another machine. They pass next through the various finishing machines, where the bottoms, sides, shanks, heels, and toes are successively rendered perfectly smooth by friction with swiftly revolving bands covered with a mixture containing ground glass and other attritive materials, which scour them in the same way as if with sand or emery paper. They next go to the gripping machine, which bevels the edges, leaving a "grip" to which the leather boot uppers can be fastened. It will thus be seen that the sole of each wooden shoe, from the time when the log of wood is first cut into segments to the time when the edges are bevelled by the gripping machine, passes through fifteen different machines, and as the required sections are marked by hand, and the right and left sides of toes and heels are separately shaped, each sole passes through the hands of eighteen different workpeople. Perhaps the advantages of the "division of labor" have never been exhibited in any manufacture with more remarkable results. The motive power for these various processes is supplied by a pair of 60-horse power compound high and low pressure condensing engines. The waste wood is also manufactured at these works into a valuable commercial product. It is chopped up by machinery, treated with chemicals, steeped to a condition of softness, and all knotty pieces having been removed, the softened woody fibre is drained and compressed between a series of rollers until it is transformed into sheets of pulp, or rather half made paper, which is supplied to paper manufacturers, and being mixed with other materials is transformed into the best qualities of paper. Lord Claud J. Hamilton was shown a sample of fine rose-tinted note paper, which was made chiefly from the waste cuttings off wooden clog soles. The works include a chemical laboratory and joiners', fitters, and gringers shops. The extensive conars are stored with clog soles, which are kept there for the time necessary to season the wood before being finished, and vast quantities of finished goods are passing daily from the warerooms to English, continental, and colonial markets. Lord Claud J. Hamilton inspected every process with equalderable interest, and we

read this description of what he saw "the clang o' the wooden shoon" will henceforth acquire new significance. - Timber Trades Journal.

NORTHWESTERN TIMBER LIMITS

A parliamentary return has been, brought down giving particulars of all timber limits in Manitoba, Keewatin, and the North-West from the time of the acquisition of that country down

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urner & Co	LOCALITY.
Yearly License. Yearly License. Yearly License. '' '' '' '' '' '' '' '' '' '' '' '' '	NATURE OF GRANT.
P. Kelly	Nake.
P. Kelly	Lux on
21 years lease cancelled.	NATURE OF GRANT

EXTRAORDINARY ECONOMY.

With the majority of people wood is wood. The possibility of making it into articles of commerce, distinct from wood, does not enter their minds. The Lumberman is indebted to Mr. J. A. Mathicu, a French chemist, who visited this office on Saturday last, and exhibited several of these articles. In a dozen bottles he had as many different liquid preparations. There was accetate of nickel, accetate of zinc, acetate of alumina, acetate of copper, acetate of lead, acetate of iron, acetate of soda, of man ganese and of line. These preparations are

dyeing, and in the manufacture of paper, ink, colors, varnish, and in a hundred and one other directions. The principal ingredient of them all is acetic acid, which is obtained in the process of carbonizing wood, retorts for which Mr. Mathieu has invented and patented. The first thing desired is charcoal, and the acid spoken of comes naturally. It is a fact that has been known for a good while that the demand for charcoal has equalled the supply. Since it has been known that charcoal iron is the best, the demand has largely increased. Heretofore a good result from a cord of wood was 45 bushels of charcoal. Mr. Mathieu was of the opinion that too much wood was wasted, and set about to devise a remedy, and with perfect success. From a cord of beech, maple or birch wood he obtains from 60 to 70 bushels of charcoal, and if we may believe Mr. W. H. H. Gere, of New York, of the Gere Iron & Mining Company, at Port Leyden, N.Y., it is of very superior quality. The use of it enabled him to put 41 pounds burden to the bushel of coal, whereas before there had been but 30 pounds to the bushel; and it bore an extra revolution of the blast cylinder. If this be 50, the value that the invention will be to the iron industry will represent a vast sum of money. Mr. Mathieu had with him a piece of a beech limb, a foot and a half long, carbonized, that was so hard and resonant that when struck with a pencil it gave forth as much sound as though it were steel. Charcoal from peat bog can be made in the same retorts, and it is said that two tons of dried peat will make nearly a ton of hard charcoal. Mr. Mathieu also exhibited a preparation for fuel, composed of savidust and charcoal dust. It weighs 30 pounds to the bushel, burns without disintegrating, and will last as long as coke. As a fuel for locomotives it will undoubtedly be valuable. Tanbark can be mixed with charcoal dust and serve the same purpose. We were much interested in Mr. Mathieu's invention. not only on account of its novelty, but because it promises to add to the worth of forests that have been considered of little value. Charcoal made of pine, while not so valuable generally as that made of hardwood, is better for some purposes. If the slabs and sawdust that accumu late to such an extent at the milling points can he turned into charcoal and fuel, and sold at a good, round profit, it will be a stroke of business that will make every extensive lumber manufacturer laugh .- Northwestern Lumber-

PRESERVING PENCE POSTS.

A correspondent at Benton Harbor, Mich. sends us the following statement by Parker Earle (a widely known horticulturist), in the Chicago Times, and requests our opinion of his mode for preserving fence posts. In answer it may be stated that no single experiment, or no single series of experiments under like circum stances, can be adopted as a rule for unlike conditions. Our own observations and experiments have led uniformly to the opinion that coal tar applied warm to dry wood) is a good preservative for timber underground, or exposed to wet and shade, but does more harm than good if exposed to the heat of the sun and weather. But varying circumstances may vary the rule. The character of the soil may have a controlling influence, and experiments should be repeated in different places and on different kinds of wood.

The experiments of Mr. Earle are a valuable contribution to such a series of trials. general application, we would recommend first impregnating the whole of the post with crude petroleum as a general preservative, and when dry apply hot tar to the portion going under ground, but none above. The petroleum will penetrate the pores, and the tar coating will hold it there. The following is Mr. Earle's statement

In building a fence around our young orchard, several years ago, we tried many plans for preserving the posts. Having occasion to remove the fence this winter, we noted the condition of the posts as follows. Those set with no preparation were decayed an inch or more in thick ness, those coated with a thick wash of lime were better preserved, but were quite seriously attacked by worms; those posts coated with

and kerosene were equally sound and as good as now. In future we shall treat all posts in the following manner before setting. Let the posts get thoroughly dry, and then, with a pan of cheap kerosene and a whitewash brush, give the lower third of the post, the part to go into the ground, two or three good applications of the oil, letting it soak in well each time. Posts so treated will not be troubled with worms or insects of any kind, but will resist decay to a remarkable degree. This we find to be the simplest, essiest, cheapest, and best method of preservation .- Country Gentleman.

MAPLE LOGS.

A Wexford, Mich., county paper has the following regarding operations in hardwood on the Manistee river:-An almost unlimited source of wealth to the people of this country has just commenced development in the offer of certain parties to purchase hard maple logs delivered on the bank of the Manistee river. Hitherto it has been supposed that maple logs would not float, and consequently that all the vast hardwood forests in this and adjoining counties would have to be burned up before the land could be made available for farming purposes. But if this enterprise of running maple logs to Manistee should prove successful, not only will it prove a great financial benefit to the country by the increased amount of money which will be put in the hands of our farmers as the price of their maple logs, but it will produce a more rapid development of farming industry, by making it much more easy for men of limited means to clear up their farms. We shall await with considerable anxiety the result of this ex periment of floating hardwood logs to market.

READY MADE HOUSES.

A gentleman living in Ottawa has conceived the novel idea of constructing wooden houses in sections, of a size admitting their transportation on ordinary flat cars. These sections, which are to be built in this city, are to be taken to Winnipeg or other places in Manitoba, and erected there, some of which are owned by the speculator and others which are to be rented. The project appears to be feasible enough, and as lumber and labor are both much cheaper here than in Manitoba, and the cost of transport ressonable, there is no reason why the specula-tion should not prove a paying one. The parts are to be substantially built, and on arriving at their destination, a few hours' work will put them together, and as the oak pins with which the sections are joined are easily driven, it is calculated that in one and a half days a dwelling 18 by 20 feet, with kitchen, 12 by 14, attached, can be put in readiness for occupation.

Timber Trespassers.

A New York paper is concerned about a system of reform which will prevent, throughout the northern states, what it terms a "reckless, criminal, and suicidal destruction of timber which will, in the remote future, entail disaster upon the wood-working industry and the country at large." Referring to the facts that there are 65,000 wood-working establishments in the United States, employing 400,000 persons, and using \$350,000,000 worth of material yearly in the manufacture of wooden-ware alone, as well as 8,000,000 more workmen employed on articles partially constructed of wood, the paper urges that congress shall interest itself as to preventive measures against the wholesale robberies of forests. Stringent restrictions against unneces. sary waste are advocated to govern all sales of timber land.

"On the Hip."

This rather inelegant expression, used popularly to indicate that condition of things in which one person holds another securely by some circumstance, work or act, finds literal exemplification in the following narrative by Mr. John Rourk, of Ottawa, Canada. Mr. Rourk says. I have been subject to hip disease for 8 or 9 years, and have tried all kinds of remedies, but found nothing to give me any relief until a friend advised me to try St. Jacobs Oil. I tried it, and after using 11 bottles I am entirely relieved of pain, and have not been troubled since, hot tar were perfectly sound as when first put now nearly six months. This is what people imagino that to him and to others who may used for painting, preserving wood, tanning, in the ground; those painted with petroleum would call getting hip disease "on the hip."

THEIR BOUNDER DUTY.

The Montreal Journal of Commerce says, in alluding to the lumber market, that there is no change to report , any estimate or opinion new formed of the quantity of lumber to be produced this season is largely guesswork—as there are so many contingencies in the way, bad roads. horse sickness, etc., etc., that would lead many to suppose that the stock will be very light. Should we yet have wintry weather and heavy falls of snow, however, there can still be a good deal of drawing done, besides there are the logs atuck last season to come forward. If there is a good drive there will be a good, fair quantity, and, with present high prices, the country will be far more benefitted than if an immense stock were manufactured and sold at low prices. On the whole, the hindrances and drawbacks to overproduction are regarded as aspecial benefit. The work of denudation of our forests is progressing at a tremendous rate, and anything that tends to prolong the production will be our gain in the future. The present proprietors of timber lands seem to feel it their bounden duty to strip the country of all timber for present

Forests and Rainfall.

In alluding to the connection between forest and flood, the Providence Journal of a late date says that "violent floeds alternating with extroine and long continued low water, each damaging to navigation and commerce, have been noticed in the Ohio valley now for some years, and with such regularity that they can no longer be ascribed to exceptional conditions. The river is more and more assuming the conditions of the Nile, or rather of those which flow through the treeless deserts of Arizona and New Mexico, which are raging torrents at one season and dry beds of sand at another. Nor is there any doubt that it is from the same cause. Whatever effect forests may have on the rainfall itself, and there is no doubt that it is very considerable, it is certain that its leaves and roots absorb and hold it in longer solution, and that instead of pouring down into the streams at once, it slowly percolates and its flow extende over days: stead of hours."

Antagonistic Trees.

It is said that certain kinds of wood, although of great intrinsic durability, act upon other woods of equal durability, in such a way as to induce mutual destruction. Experiments with walnut and cypress, and cypress and codar, prove that they will rot each other while joined together, but on separation the rot will cease, and the timbers remain perfectly sound for a long period. This interesting fact suggests an analogy to the philosopher that reaches beyond the province of the woodworker. If some enduring woods have an antagonism to each other, so that a mutual rot is induced when in contact, why may not certain individuals of a strong nature induce a mutual rot when they come in contact with each other. Carrying the analogy into the close relations of matrimony the possi bilities that it suggests are simply awful!

The Chlengo Lumbermen's Exchange.

At the recent annual meeting of the Lumber men's Exchange, at Chicago, the Secretary re viewed the operations of the institution since its organization and during the last year past. The lumber receipts aggregated 1,906,689,000, 866,075,000 shingles, and 104,109,000 lath, while the coarser forest products by lake navigation amounted to 2,846,340 posts, 4,200,560 railroad ties, 33,055 cords of wood, 2,254 cords of slabs, 29,702 cords of bark, 86,922 telegraph poles, 25, 118 meces of mies. About one-sixth of the lumber is classified as hardwood. The Exchange commenced the year with a membership of 85, and closed with 126 names on the rolls, including eight firms from outside points.

SHREWDNESS AND ABILITY.—Hop Bitters so freely advertised in all the papers, secular and religious, are having a large sale, and are supplanting all other medicines. There is no denying the virtues of the Hop plant, and the proprietors of these Bitters have shown great shrewdness and ability in compounding a Bitters, whose virtues are so palpable to every one's observation. —Examiner and Chronicle.

Teamerry whitens the teeth like chartened pearls. A five cent sample setties it.

The Wood-Working Industry.

The following figures compiled from the U.S. census returns of 1880 may prove interesting to those engaged in any branch of the wood working industry :-- There are in the United States more than 65,000 establishments employing 40,000 persons, and using material of the value of over 350 millions of dollars yearly in the manufacture of articles from wood alone. Be sides these there are over eight million work men employed on articles constructed partially from wood, and using that material to the value of \$6,000,000 yearly.

MANE News.—Hop Bitters, which are advertised in our columns, are a sure cure for ague, billousness and kidney complaints. Those who use them say they cannot be too highly recommended. Those afflicted should give them a fair trial, and will become thereby onthusiastic in the praise of their curative qualities. Portland Argus.

"AND fools who came to scoff remained to pray."—We receive many letters from those having tried while doubting, yet were entirely cured of dyspepsis and liver troubles with Zopesa, Clergymen write us earnestly to it wonderful effects.

CHILBLAINS.—These troublesome complaints have be sucedily cured by Hagyard's Yellow may be speedily cured by Hagyard's Yellow Oil, the great Rhoumatic remedy, which, as an external application and an internal remedy has a wider range of usefulness than any similar preparation in the world. All druggists sell it. Price 25c.

CHEAP AND GOOD. - For 50 cents you can pur CHEAP AND GOOD.—For 50 cents you can purchase from any reliable druggists abox of Mack's Magnetic Medicine, which cortains forty-five doess; this is cheaper than as ther similar medicine sold, and while it is compour druggists say it is the best, and gives astisfaction in all cases. Read the advertisement in another column. column

all cases. Read the advertisement in another column.

A healthy man never things of his stomach. The dyspeptic thinks of nothing else. Indigestion is a constant reminder. The wise man who finds himself suffering will spend a few cents for a bottle of Zopesa, from Brazil, the new and remarkable compound for cleansing and toning the system, for assisting the diges two apparatus and the liver to properly perfor their duties in assimilating the food. Get a ten cent sample of Zopesa, the new remedy, of your druggist. A few doses will surprise you.

Take Care of the Little Ores.—Children are the mother's idol, the father's pride; they are entrusted to your care to guide and protect, to fill positions of honor and trust. If you truly feel the responsibility of your trust, and want to make the duties of your office as light and pleasant as possible, don't allow a slight cold to prey upon the little enes, for even a single day or night may reveal the dreaded destroyer. Croup, but a few doses of Down's Elixir, if taken in season, will banish it, as well as Whooping Cough, Bronchitis, and all throat and lung affections. For sale by all dealers in medecine. Price 25 cents and a \$1 per bottle.



Burdock Heating Ointment should be d in connection with Burdock Blood Bitters for ing Ulcers, Abscesses, Fevers, Sores, &c. Price used in connection with Burgook Blook Financiang Ulcers, Abscesses, Fevers, Sores, &c. Pri 25 cents 21 box. T. MILBURN & CO., Solk Agents, Tokonta



Caledonian Hotel, GRAVENHUEST.

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Vegetable Balsamic

This valuable medicine is purely regulable, the discovery of which was the result of many years' close study, it order to discover the case, the symptoms and the cure - 1, 2, 1 Consumption, Coughs, Colds,

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and every species of oppression of the Ches and Lungs, in all cases where this Elliri has been duly administered its efficacy has been invariably manifested, convincing the most armonious that

CONSUMPTION

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is not incurable, if properly stended to.—
Consumption, at its commencement, is but a slight irritation of the membrane which correct heliums; then an inflammation when the cough is more observable, but rather dry then becomes to calferor and the potention of frequent, the cheeks flushed and chilis more common. This flusher and represent the new common. This flusher neuring the above complaints, operates so as to remove all morbid irritations and inflammation trom the lungs to the surface, and itsult; expetthem from thou yetem.

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same time reduces the fever. It is free from
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are of so drying a nature as to be in great
danger of destroying the patient, whereas
this medicine never dries or stade an cough
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borough, Ont.

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

PETERBOROUGH, Ont. APRIL 1, 1832.

THE water mill of the Parry Sound Lumber Company commenced running on March 23rd having been shut down for only two months.

THE Parry Sound Lumber Company have added another vessel to their fleet, having purchased the schooner Sir C T Van Straubaure recently.

We learn that Mr. C. H. Edwards, lumber dealer. Yonge street, has been shipping several carloads of dressed lumber from Toronto for Winnipeg.

DURING the year 1881 one prominent match firm paid the United States Government \$4,500,-This amounts to a total manufacture of 45,500,000,000 matches, or 277,500,000 five-cent

As order has been issued to have the timber boom placed in position in the Northern slips at Toronto. Men were engaged on Saturday, March 18, having this done. This looks as if timber was to be brought down directly.

CAPT. WM. JOHNSON'S fine fleet of lumber vessels-the schooners Alice, Olga, Clara, and Ida-are being fitted out at Chicago for the season's business. A third most has been put into the Clara, adding greatly to her beauty, and makes her one of the handsomest and neatest three masters sailing the great lakes.

In another column will be found the advertisement of C. Norsworthy & Co., of St. Thomas, offering for sale the iron work of cars for pole reads. A diagram will also be sent, from which the woodwork of the car can be construct ed. These pole reads are largely used in the States for drawing logs, &c. They are cheaply and speedily laid down, and make hauling easy.

THE Winnipeg Times says that the following circular issued by the C. P. R. authorities will show the prices to be paid for all kinds of timber cut upon their limits :- Fence posts, 8 feet 6 in., I cent each; telegraph poles, each lineal foot over 22 feet, 1 cant; railroad ties, 8 feet long, 3 cents each; rails, 12 feet, \$2 per thousand; stakes, eight feet long, \$2 per thousand; shingles, 60 cents per thousand; square timber and saw logs, of oak, elm, ash and maple \$3 per thousand feet; all other woods except poplar, \$250; poplar, \$2; all other products of the

THERE are 100,000 cedar ties, and 100,000 that the great bulk of the logs and timber annuposts banked at Tawas, Mich., as well as large quantities of telegraph poles. Large operating is also done in codar paving block timber, which is harded to the several shipping points along the shore

THE following paragraph from the Chignocto Post, of Sackville, N.B., dated March 16, will be read with surprise in Ontario:-Lumbermen work on, chopping the trees off somewhere about the middle, owing to the depth of snow. If the snow be thin next winter they may go over the ground again and cut another log from every stump. Large piles of timber have been got out, however, and mills are expected soon to boom.

THE Timber Trades Journal says that in consequence of the late storms on the Clyde coming so close after the heavy storms of January last, and before the timber pends had been properly secured, there has again been much inconvenience experienced by timber merchants, and there will be no sales of timber during March. It is hoped that with fair weather the pends will be put all right again, and the scattered timber properly arranged for sales c ming on early in April.

FORESTRY CONGRESS.

We learn from Dr J A. Warder, President of the American Forestry Association, that the Society over which he presides will meet in Cincinnati, Ohio, on April 25-29, when papers will be read, followed by practical discussions.

The National Forestry Congress and the Presidential Arbor-day will also be held during the same week. The Congress will be interna tional, rather than national, for a number of Canadian gentlemen have promised to attend, and any other visitors who are interested in the subject of forestry will be welcomed.

OTTAWA TIMBER CUTTING.

A gigantic stick of square timber measuring 50 feet in length and 30 × 30 inches square, containing 312 feet, was cut by the Rielly gang on C. & H. Mohr's limit, one mile back of the famous Oiseaux Rock, so well known to excursionists.

The same gang - John Rielly, Maurice Rielly, Robert Rielly, and John Bradley, respectively, made ninety eight pieces in one week, including this large piece.

This country has not been culled by other lumbermen, owing to the great difficulty experienced in getting timber on the ice, as it is mountainous and rocky.

The Messrs. Mohr are getting out some splendid logs and timber. The logs will average 15 inches, while the timber will go 80 feet, clean and free from bad knots, stakes, or anything that has a tendency to injure merchantable tim-

Mr. Mohr's agent having great practical experience in lumbering operations, enables him to overcome those difficulties that former lumbermen experienced here in getting timber to market. No snow here of any consequence, but at present indicates a thaw. - Free Frees.

MASTERS AND SERVANTS.

To the Editor of the Canada Lumberman:

DEAR SIR.-I see by the last issue of the CANADA LUMBRIMAN that the lumbermen of Canada are circulating a Petition to the Minister of Justice, asking for an amendment to the Act, 40 Vic. Chap. 35, respecting Masters and Servants. This Act was passed for the purpose of remedying the evil that it was alleged existed, whereby persons under contracts of service were liable to a quasi criminal prosecution for non-performance of the contract, and it was deemed advisable that such contracts should be placed on the same basis as other civil contracts, the remedy for breach of which, except in the cases named in the Act, should only be such as applied to the ordinary civil contract, on a failure to perform the same. This Act has been found to be very injurious to persons engaged in the manufacture of saw logs and square timber throughout the Dominion in that there is no remedy in such cases as the fol-

ally taken out is manufactured by gange of men who for years have been in the habit of hiring themselves to the lumbermen at their own home or the Province of Quebec, in the autumn of each year, and agreeing to go to the point at which the work is to be done, and remain for the full season. In almost all cases these men have to get an advance of wages to leave with their families or boarding-house keepers, and have to be conveyed at expenses of railway fare. food, and in some cases clothing, to enable them togointo the woods to do the work for which they are engaged. These men are generally of an improvident class, and are totally without means. The employer at great expense brings these men to the point at which they are to perform the contract, and after a time, but before the period for which they have hired expires, some offer is made, by a rival lumberman, of a higher rate of wages, if the parties will quit the employment of the men who brought them from Quebec, and go into the employ of the person making them the offer. It will be apparent that such a person, having paid nothing to bring the men from Quebec, can afford to pay a higher rate of wages for the remaining portion of the season. In case the men, or any con-siderable number of them, leave the person who hired them in Quebec and brought them to the point at which the work is to be performed, such person must suffer serious loss. He loses what he has advanced to, or paid for, the men, and also loses, by not being able to get out the logs and timber necessary to perform contracts he may have entered into. If he refuses to pay the men any arrears of wages, they go before some country Justice of the Peace and lay a complaint for arrears of wages, and most of these justices side with the men, particularly as unless they give judgment against the employer, the chance of the justice and constable getting their fees are remote. The lumbermen of the Province of Quebec felt the grievance some tune ago, and petitioned the Minister of Justice on the subject, and he replied that the matter was one within the jurisdiction of the Provincial Legislature, and that the proper place to apply was to the Premier of the Pro vince within which the contract was to be performed. The lumbermen throughout the Do minion feel that they should have some protection, and it appears to me the proper place to seek the remedy is from the Dominion Parliament. At any rate the law in the Provinces should be uniform. The Legislature of Quebec, Chap. 15 of 45 Vic., passed an Act to remedy the evil complained of, and for the relief of which the lumbermen by their petition pray. If the Legislature of Quebec had power to pass such an Act, as it has done, I cannot see how the Dominion Parliament had power to pass the Act 40 Vic. Chap. 35. It seems an absurdity that the Dominion Parliament should pass a law repealing a statute in force in two Provinces of the Dominion, and that the Legislature of one of the Provinces should be able and competent immediately thereafter to pass a law re-enacting in that Province the law repealed by the higher l'arhament. I send you a copy of the petition and of a clause suggested to be added to the Act now in force, and would further refer to the "Seaman's Act," by which penalties are enforced against seamen who break their contracts of ervice. There is no reason, to my mind, why lumbermen, who refuse and neglect to perform such contracts, should not be under similar penalties imposed on seamen who out service before the expiration of the period for which they were hired. I am your obt. servt.

Peterborough, March 21, 1882.

POLE ROADS.

The following letter appears in the Toronte Mail :-

SIR.-In the Globe of the 11th is an article claiming that pole roads are the best suited to use in carrying logs from the woods to rivers and mills. After a thorough trial I have found the three foot tract, with stringers haved on two sides to six inches thick, with either wooden rail two by four or light iron rail, the cheapest and best. Polo roads cost more to grade, and are ai-\$2.50; peplar, \$2; all other products of the lowing, which are occurring every day ways horse-killers. In heavy down grades with forest not enumerated, 10 per cent, ad. sulorem. with the lumbermen. It is well known iron rail, I will guarantee to run cars with from ways horso-killers. In heavy down grades with

fifteen hundred to three thousand feet of logs securely, and that around curves, and for branch roads, corners can be turned shorter with tramroads than with poleroads. In building tranroads hardly any gracing is necessary, the stumps only being cut low or dug out, and dirt and wood, with dirt on top to cover the wood, in holes. In Michigan, where trams and poleroads have both been tried, the tramroad is retained and the poloroad discarded. I have used both horses and an engine costing three thousand dollars, on tramroads. If any lumberman in Canada wants to write me you are at liberty to give him my address.

Yours, etc., SENEX.

Chicago, Ill., March 18, 1882.

Its Work in Strathroy.

It often happens that the opinion of an experienced man, an expert, if we so call him. conveys greater force than an aggregation of outside, uneducated testimony. And then, too, personal experience or observation is so much more convincing than mere assertion. Trained to habits of analysis and keenest accuracy, and and from the very nature of their daily occupation, given to the most incisive criticism of any. thing of a proprietary nature, chemists, as a class, hesitate very long before endersing anything of a remedial nature whose virtues have been announced through the public press. St. Jacobs Oil, however, is so universally successful and so unvaryingly accomplishes all that it promises, that the able chemist, W. J. Dyas, Esq., of Medical Hall, Strathroy, Ont., sends, with his friendly recommendation, the following from David Harrison, Esq., 9th Con., Township of Caradoc :- Having suffered with inflammatory rheumatism since last July, and hearing of St. Jacobs Oil, I sent for a bottle of the article on the 15th of October. At that time I was confined to the house, and could not possibly get out of bed without assistance. After four applications of the Oil the pain ceased entirely, and I was able to go about Strathroy in less than a week. I cannot give too much praise to St. Jacobs Oil for what it has done for mo, and I believe it to be the most reliable remedy in rheumatism. Its wonderful efficacy should be brought to the knowledge of everybody.

No article ever attained such unhounded No article ever attained such unbounded popularity inso short a time as Burdock Blood Bitters, and that too during the existence of countless numbers of widely advertised bitters and blood purifiers. It is evident that this medicine begins it work at onco, and leaves no disirable effect unattained.

THE CAUSES OF COLDS are getting overheated in hot rooms or crowded assemblies, sitting in a draught, or cooling too rapidly after exercise, muffling up warm and changing to lighter wrappings, cold and damp feet. No matter what is the cause Hagyard's Pectoral Balsam is the cure for all throat and lung disease that induce consumption. consumption.

consumption.

HAGYARD'S YELLOW ()IL will be found invaluable for all purposes of a family liniment. Immediate relief will follow its use in all cases of pain in the stomach, bowels or side; rheumatism, colic, colds, sprains and bruises. For internal and external use. It has no equal in the world for what it is recommended. For sale by all dealers at 25c. per bottle.

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Poleroad Tramway Cars

Will Carry 2,000 Feet of Hardwood Lumber per Load

Drawn with one span of horses, either summer or winter, on Round Pole Roads, which are cheap and speedily built.

The woodwork of the Car can be built by any handy man in a couple of days. The undersigned supply the ironwork complete, including boits and washers and a diagram of car.

The whoels are adjustable on its axies to accommodate itself to any bend in the pole. The weight of ironwork is 2,250 lbs. Price on application to

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Have your Boilers thoroughly Inspected and Insured against Explosion by

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

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

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MACHINERY for SAW and GRIST MILLS.

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Is a Sure, Prompt and Effectual Remedy for Nervousness in ALL its stages, Weak Memory, Loss of Brain Power, Sexual Prostration, Night Sweats, Superma torrhaa, Seminal Weakness, and General Loss of Power. It repairs Nervous Waste, Rejuvenates the Jaded antellect, Strengthens the Enfeebled Brain and Restorce Surprising Tone and Vigor to the Exhausted Generative Organs. The experience of thousands proves it an INVALUABLE REMEDY. The medicine is pleasant to the taste, and each box contains sufficient for two week's medication, and is the cheapest and best. AT Full particulars in our pamphlet, which we desire to mail free to any address.

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To MILLMEN!

HODGSON'S

saws of every description. Wheel is moved along the longth, and in the depth of the tooth, and just were wanted as easily as a file. It is just THR THING for mills, cutting from one to five lumber, and costs no more than one fourth to one-tenth the price of little better machines. It United States and Canada, and is made in Weisport, Pennsylvania, and in Amherst, Nova Scotis.

Hodgson's Patent Monitor Shingle Machine

combines, at a moderate pince, more points of excellence than any other. Jointer is built in machine, a few inches from the saw. The cast steel feed rolls are opened by a foot lever, and grip the block like a vice. Traverse of carriage to suit large or small stock, is under control of operator when running. Will run for days without cutting a shim. Warranted to cut, with one attendant, three thousand in an hour, under forfeiture of some first production of the same stocks.

T. HODGSON, AMHERST, NOVA SCOTIA.

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Send for Illustrated Catalogue.

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HEMLOOK TO THE FORE.

Hemlock is fest attaining prominence as one - ng the soft woods. Its of the most value ses is being more fully adaption to numer. recognized, and this one. despised wood is coming pronugantly to the fore as one of the most useful in the catalogue. The memory of the writer carries him back to the time, not very many years, either, in the vista of the past, when in the purchase of lands for lumbering purposes in the Saginaw valley, hemlock was left entirely out of the calculation, and thousands of acros containing vast quantities of hemlock have been allowed to revert to the state after the same had been denuded of the pure, because the hemlock was considered practically worthless except for the bark, and that could not be utilized because of the lack of transpor tation. These hendock lands locmed slightly into prominence a few years since at the time of the hemlock extract boom, when several extract factories were established in the state, but the great expectations" of the stockholders in hemlock extract bonanzas appear to have vanished into thin air or in a fruitless search for profits which their projectors had promised. Up to within a few years hemlock was considered worthless, except for fencing, joists, or for some of the purposes for which rough, coarse lumber was Jomanded. But as pine has ad vanced in price and is growing scarcer, necessity has demonstrated that homlock is especially ndapted, not only for coarser work, but also for inside finishing, and is being utilized in its natural state-being found capable of extraordinarily fine polish for such purposes, in some very expensive structures. As an illustration we might cite a church in a neighbouring city, finished principally in hemlock in oil, in which is displayed some of the most beautiful specimens of natural graining, in the panel work, which can possibly be produced. It has been ascertained that hemlock is adapted for almost any of the uses to which the soft class of words has heretofore been applied. The popular favor with which is is being received has resulted in rapidly enhancing the price of the lumber, as well as the lands on which the timber is I kated, and hemlock stumpage has appreciated in value to such an extent that in some sections it is ruling higher than that received for pine land stumpage a few years ago. This may have been partially induced by the speculative mania which has lately set in for the possession of timbered lands, but not wholly so; and because of the utility of the lumber for almost every conceivable purpose, it is safe to predict that hendock will maintain a much higher figure in the future, and be received with much greater favor than in the past, and those who through foresight, or inability to dispose of them, have retained possession of these lands, will find they have struck a bot anza -- Lumberman's Gazette.

CONSTITUENCY OF WOOD.

All woods heated away from the air yield watery vapor chiefly, leaving nearly puro charcoal, which, when burned, leaves more or less nameral matter as ashes. Of green wood from one third to one half or more of its weight is water, the anditions partly depending upon the time of cutting. A gentleman made experiments on a basis of 100 pounds, and found they contained water as follows

Cut in Jan. Cut in April.

Ash, pounds water	 20	33
Sycamore	 . 33	40
White Pine	 . 52	61

All kinds of wood cut in January contain from 15 to 25 per cent. less water than after the sap is in motion in April, and considerably earlier in the Southern States. As wood sessons naturally in the air, it loses from one-sixth to one third its weight of water, but still contains from one-seventh to one-fourth its weight of moisture. A considerable part of the latter may be expelled by kiln-drying, and most of it if the kiln heat be raised to 212". Some careful tests made showed that five cords of beech and maple just cut weighed as much as eight cords of the same wood when thoroughly air seasoned. This teaches us a practical lesson; that is to haul and handle green wood requires a very large waste of strength In handling five cords of green beech wood, for example, we have leaded, hauled, and unloaded three or more tons of useless water, which a few months' seasoning would one-half of the 64,000 acres, and this was accept. I navigable water. - Northwestern Lumberman,

cubic (set as it lies piled up. But allowing for the interstices in fairly piled wood, we may reckon a cord to actually contain about seventy-two cubic feet of solid wood. Thoroughly dry wood weighs about as follows, per cubic fout and

	UME C.	Une
	foot.	Cord.
Hickory, pounds	69	4,454
White oak	53	3,810
White ash	40	3.523
Red oak	751	3.276
White keeps		2.240
White beech	10	
white rice	43	3,096
Black birch	43	3,096
Black walnut	42}	3,000
Hard maple	40	2.880
Soft maple	37	2,664
Wild cherry	37	2,664
White elm	301	2,623
Butternut.	351	2,650
Red codar		2 620
Yellow pine	***	2,447
Tellow Millers seed of the seed of the	30	
White birch	33	2,376
Chestnut		2,304
White Pine	2ს	1,872
Maleria 11 a 1		

If the wood is to be used for steam-generating purposes, the relative values per cord, of various seasoned woods, taking into account weights, heating power, etc., and valuing hickory, as a basis, at \$5 per cord, we reach the following re-

Ilk o	\$5.00
White oak	4 05
White ash	3 85
Apple	3 60
Red oak.	4 45
White beech.	3 23
Black walnut	
	3 13
Hard maple	3 00
White clm	2 90
Della de	
Red codar	2 08
Wild cherry	2 75
Soft maple	2 70
Yellow pine	2 70
Chestnut	2 60
Butternut	2 55
White birch	2 40
White birch	2 10

We find no record of careful experiments to test the relative value of cottonwood and rosewood or linden. The hickory named above is what is known as the shellbark hickory (Caryo alba). The pignut hickory (Carya porcina) is of nearly equal value. The western hickory (Caryo sulcata) weighs about 25 per cent. less than the shellbark, and its relative value per cord is estimated at \$4.05, or the same as white oak .-Northwestern Lumberman,

SOUTHERN PINE FORESTS.

The St. Paul Pioneer Press learns through the parties chiefly interested, of quite an important transaction in Florida pine, which will be of interest to people in the northern lumbering regions. In 1872, A. J. Floyd, a Kentuckian. once wealthy but impoverished by the war, came into this country on a prospecting tour among the pine lands, of which there were many thousand acres that had reverted to the state through default in the payment of taxes. He was without means of his own, but had interested in his prospects Mr. W. H. Polleys, of Wisconsin, an old Black river lumberman of con siderable wealth, who had agreed to back him to a reasonable extent if satisfactory opportunities for investments offered. Mr. Floyd was well posted on pine, and after examining the country thoroughly, located 64,000 acres in a nearly or quite solid mass, lying on waters flowing into the gulf and splendidly situated for operations and marketing. Mr. Floyd with his family took up his residence upon the tract, and has lived there in hermit-like soclusion for ton years, solling each year a few logs which found their way to the navy yard at Penascola, and furnished sufficient means for the payment of taxes and support of his family. His confidence in the value of his investment never weakened, and his partner, Mr. Polleys, was equally hopeful, although the financial panic of 1873, following right upon the heels of a venture which tied up for some years considerable of his available cash capital, seriously crippled him, and probably caused him some regrets that he had hampered a profitable business with uncertain speculations of this character. However that may be, his judgment has been vindicated. The land was well selected and its value has been recognized during the past year by capitalists from the north, who have been seeking investments in the gulf mates. Offers have been made and refused. Recently an English firm, Sanders & Rankins, made an offer of \$5 per acre for the entire tract. This was refused.

have removed. A cord of wood contains 123 jed. I understand the transfer has been made, and the purchase money, \$160,000 in cash, placed to the credit of Messrs. Polleys & Floyd. They expect to hold the remaining 32,000 acres, considering it the most profitable investment they can make. Mr. Floyd, who was here last week left to-day for Alabama, where he will reinvest in pine lands. This trade has opened the eyes of northerners wintering here, and although to day there are tracts of pine in the gulf states that can be had by clearing up taxes, for a nominal sum, it seems likely that within a year the best located portions will have passed into the hands of the numerous capitalists now look ing for investments, - Lumberman's Gazette.

EXPORT OF HEMLOCK BARK

The St. John, N.B., Daily News, of March 6th, says :- The discussion or conversation that took place last week in the Legislative Council in connection with Mr. Jones' motion for papers relative to the hemlock land sale, showed that the weight of opinion in that body, was opposed to the course pursued by the Local Government on that matter. In the course of that discussion, two points were brought out very clearly, of which one was that the policy of stimulating the destruction of our hemlock forests for the maintenance of a great export trade in hemlock bark extract, was a most wasteful and shortsighted one, and the other of which was, that whether that policy was wise or no the land disposed of had been sold at a price far below its

There seems to be no doubt as to the sound ness of these conclusions. It is plain to every intelligent observer that the tanning industry is one which the world can never dispense with. Les importance can never be lessened, but rather increased ago after age. But the materials needed for use in the tanning process naturally secome scarcer and scarcer. The trees whose bark furnishes the best tanning material grow slowly, and are destroyed quickly. The homlock is one of the best of the tanning-bark bearing trees. It has been plentiful in this Province. But it is being rapidly destroyed, and as it grows scarcer it becomes more and more valuable. It would pay the Province well to guard it carefully. The rapid destruction of tanningbark bearing trees elsowhere will surely enhance the value of such trees in New Brunswick. There is not the slightest probability that the use of tanning bark will be supersoded by any discovery or device whatever. Where it cannot be obtained in sufficient quantity, inferior tanning will have to be depended upon. Where it can be got it will always command a good price. But anyone can understand that as the supply of such bark is limited, the country would profit far more in the long run from its use in tanning factories at home, than by its exportation in any shape for use in tanning factories abroad.

The exportation, however, may be found difficult to stop altogether; but henceforward the Government should be careful to part with no hemlock lands in large quantities, and with none in any quantity below their real value. The Government should be made to understand that the hemlock forests of the Province are sources of wealth to be jealously guarded and huseanded for the general good.

POLEROADS IN WASHINGTON.

The lumbermen of the Puget Sound district have adopted the poleroad system, for years so successfully operated in Michigan. The Blackman Brothers, of Snohomis City, have invented an improvement on car trucks for these railways, and the invention seems to promise good results. The renouncing of primitive methods for advanced ones adequate for the demands of the lumber business is a question of the times. A wooden track with these improved cars can be used by the lumbermen in places and upon grades where an iron track could not be used. for the reason that an iron track can only be used on comparatively light grades, whereas the wooden track has been successfully used with these trucks where the grade was one foot to every nine. All such improvements are hence important, and when the idea is perfected it will work a revolution in the methods of They then offered \$5 per acre for an undivided hauling logs from the woods to the booms or

BURNING UNDERBRUSH.

Mr. Thos. Meehan, of Philadelphia, who is an authority on matters relating to forestry, endorses the proposition of Josquin Miller to burn the brushwood and rubbish in the forests every year, to prevent extensive conflagrations. In the Gardeners' Monthly he says :-

"If the undergrowth is kept down and dead matter not allowed to accumulate, there will be no fire to hurt the living trees. We know of a piece of wood that is burned under every year by sparks from the Reading Railroad Company's locomotives, but the standing timber has never been injured. It will not cost a thousandth part as much to clear out all the brushwood in the United States forests as we lose in one year by forest fires, and the true way to preserve our forests must start from just here. At any rate this idea removes the great objection to forest planting, that it may get burned. If rank vegetation is kept down for a few years during the growth of the forest, it will by its own shade keep down the growth thereafter,

The Literature of Forestry.

The large place which forestry holds in European countries is strikingly shown to the American mind by the number of publications on the subject issued by the European press Spain, from which we should not expect a voluminous literature of the sort, furnishes us a catalogue raisonne of 1,126 books, MSS., etc., in Spanish, on subjects connected with forest science. In Schmidt's Catalogue, published in Prague in 1876, are given the titles of German works on this subject published from 1870 to 1875 inclusive, which amount to 650. A gentleman to whom application was made from the Cape, South Africa, for information in regard to suit able works on forestry in the German language, reported that they might be reckoned by cart loads. Publications on this subject are also abundant in the French and other languages of Europo.-N. H. Egleston.

The Question Settled.

There's no use in arguing the question of the potency of some substances for especial service in emergencies. They will do all they promise. and more, if judiciously used. The following from Mr. P. Murphy, of No. 1 Fire Station, Ottawa, bears upon the point stated above. Mr. Murphy says:—I had occasion to use St. Jacobs Oil recently, and must say that it is the best Liniment I ever saw used. I caught cold from getting wet at a fire, and it settled in my shoulder and down my back to my hip. I suffered a great deal from the pain. I was advised to try St. Jacobs Oil. I did so, and after the fourth application I was entirely free from pain. I cannot speak too highly of it, and advise others to use it.

Planting Trees.

Dr. J. M. Anders, in the American Naturalist. says :- "The experiment has been tried extensively in France of planting trees in belts 100 metres apart, and with marked benefit to the climate, and there are some good reasons for believing that a similar experiment in various places in our own country would prove equally advantageous. It has been observed many times that fruit grown in the city surpasses in quality and size that grown in the country, and this is ascribable to the more effectual shelter in the former place."

AT Shell Lake, Minn., a boom will be put in that will hold 40,000,000 feet of logs. One of the mills at this point will put in a track and employ a locomotive to bring logs to the lake to offset the shortage in the winter's cut. The distance is from four to six miles.

Saved from the Poorhouse.

Saved from the Poorhouse.

For years Pavid Allingsworth suffered with theumatism, and notwithstanding the best medical attendance, could not find relief. He came to the Sciota County Poorhouse, and had to be carried into and out of bed on account of his helpless condition. After the failure of all the remedies which had been applied, the directors of the Poorhouse resolved to use the celebrated German Remedy, St. Jacobs Oil, and this was a fortunate resolution; for, with the trial of one bottle, the patient was already better, and when four bottles had been used upon him he could again walk about without the use of a cane. The facts, as above stated, will be rerified by the editor of the Portsmouth (Ohio) Correspondent.

Chips.

A FINE troo was recently cut on Beaver crock, Peshtigo, Wis., district, that made four 10 foot logs, '8, 46, 44, and 42 inches in dismeter, and altogesher scaling 5,744 feet

THE Lachute Watchman says that Messre A & G. Holland, of Ottawa, are constructing a pulp factory at Buckingham, and intend having it completed early in the spring

WHILE engaged in digging a well recently at Two Rivers, Wis., some men found a piece of hemlock wood 86 feet below the surface of the

earth, and in a good state of preservation.
On the Elk river, in Wisconsin, Ed. Butler banked what was regarded the biggest log of the season a few days since. It measured 20 feet long and 44 inches through at the small end.

THE cordage to be used by the St. Croix, Wis. Boom Company for the ensuing season has been contracted for, and amounts to 100 tons, costing in the aggregate from \$24,000 to \$26,000.

THE ancient temples of Egypt are believed to contain the oldest timber in the world, in the shape of dowel pins which are incorporated with stone work, known to be not less than 4,000 years old. These dowel pins, according to the appearance they present, are thought to have been made from the tamarisk, or shittim wood, in ancient times a sacred tree in Egypt.

THE Chatham, N. B., World says that at Barnaby River there are about 125 men engaged at the lumber business, as follows :-- Mr. O'Brien has 30 men in two camps; Mr. M. Gratton has 45 men in two camps; Mr. T. Gill has 25 men in one camp; Mr. McSweeney has 15 men in one camp, and Mr. Murphy has ten men in one. The total number of camps is six, and the lumber expected to be cut is about 5,-000,000 feet.

This winter there are 16 camps, containing 150 men, lumbering at Bay du Vin. Mr. D. Buckley has six camps and employs 60 men; Mr. M. Savoy has five camps and employs 40 men: Mr. Charles Rainsburrow has two camps and employs 15 men; Mr. John McDonald has one camp, containing 15 men; Mr. J. Hanley has a camp containing ten men; and Mr. Lynch has a camp containing ten men. The estimated lumber expected to be cut is seven or eight million feet.—Chatham, N.B., World.

THE Quebec Chronicle says that a large quantity of square birch timber is now being brought to town over the Lake St. John Railway. On Saturday, March 4, two trains of thirteen cars or this timber arrived at the Palais Depot for different shippers, and has been unloaded at Flood's, Clint's, Commissioners' Wharf, and other coves. The bulk of the tumber comes from St. Raymond, where there is keen competition for it, as many as six or seven Quebec buyers having been operating there this winter. A considerable quantity also comes from Lake St. Joseph and St. Gabriel Stations.

A NUMBER of lumbermen of Alpena ave becor are at present, making visits to the couthern pineries. A. W. Comstock, of the firm of Bewick, Comstock & Co., returned to the city on the 3rd from a southern trip, and appears so well pleased with what he saw of the jouthern pine woods that it is the intention of the firm to purchase some 40,000 acres of pine woods in that part of the country. There seems to be an immense sale of southern pine lands, as will readily be seen by the fact that the officials whose duty it is to record deeds are about one month behind hand with their work .- Cor. Free Press.

THE Minneapolis Lumberman says the logging season may now be considered closed in the northwest. The cut on the upper Mississippi, Rum, Snake, St Croix, Menominee, Chippewa, Wisconsin and Black rivers, as well as the railway mills taken as a whole will reach about 66 per cent. of the intended cut. The extreme upper Mississippi loggers have done the best. The Black river has done the poorest. It is also to be kept in mind that there is a very much larger supply of old logs on hand than ever was known before. We think it a safe estimate to put down the logs in booms from St. Louis north at 500,000,000 feet, which will go far toward making up the shortage.



Meuralgia, Sciatica, Lumbago, Backache, Soreness of the Chest, Gout, Quinsy, Sore Throat, Swellings and Sprains, Burns and Scalds, General Bodily Pains,

Tooth, Ear and Headache, Frosted
Feet and Ears, and all other
Pains and Aches.

No Preparation on earth equals St. Jacus Oit as a safe, sure, simple and cheap External Remedy A trial entails but the comparatively trifling outlay of 80 Cents, and every one suffering with pain can have cheap and positive proof of its claims.

Directions in Eleven Languages.

Directions in Elera Languages.

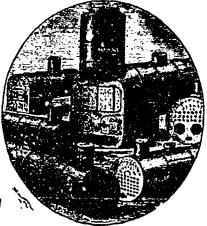
BOLD BY ALL DEUGGISTS AND DEALERS
IN MEDICINE.

A. VOGELER & CO., Baltimore, Md., U. S. A.

John McGregor & Sons,

STATIONARY,

MARINE, and LOCOMOTIVE BOILERS, And SHEET IRON WORK.



Portable Bollers for Threshing Machines, Shingle Mills, etc., furnished on short notice. All Bollers tested by cold water pressure to 150 lbs to the square inch before leaving the shop,

SECOND-HAND MACHINERY

BOUGHT, SOLD, OR TAKEN IN EXCHANGE FOR NEW WORK.

Repairs Promptly Attended to.

188 Atwater Street, Detroit, Mich. BRANCH SHOP,

Cor. Glengarry Ave. & Stuart St. WINDSOR, ONTARIO.

P. JEWELL & SONS PORTLAND FOUNDRY.

Purely Oak Tanned Leather Belting.

And LACE LEATHER

GEORGE STETHEM, PETERBOROUGH, Ont

J. L. Goodhua & Son

Leather Belting

Patent Lace Leather.

212, DANVILLE, P. Q.

WISDOM & FISH

Rubber 🖥 Leather Belting

RUBBER HOSE, STEAM PACKING,

LUBRICATING OILS, COTTON WASTE Wrought Iron Pipe and Fittings,

And all Articles used in the Application of Steam to Machinery.

No. 41 Dock Street, St. John, N. B. (SMALL'S BLOCK.)

N.B.—Estimates for Steam and Hot Water Heating Apparatus formshed on application. All work War ranted 1115

GRATEFUL-COMFORTING.

BREAKFAST.

"By a thorough knowledge of the natural laws which govern the operations of digestion and nutrition, and by a caroful application of the fine properties of well-selected Cocca, Mr. Epps has provided our breakfast tables with a delicately flavored beverage which may save us many heavy doctore bills. It is by the judicious use of such articles of diet that a constitution may be gradually built up until strong enough to resist every tendency to disease. Handreds of subtle mala dies are floating around us ready to attack wherever there is a weak point. We may escape many a fatal state by keeping ourselves well fortified with pure blood and a properly nourished frame "-Civil Service Gazette. Gazette.

Made simply with boiling water or milk. Sold in packets and tins only (4 lb and lb) labelled

JAMES EPPS & CO., Homoopathic Chemists, London England.

THE KEY TO NEALTH.

Unlocks all the clogged avenues of the Bowels, Kidneys and Liver, carrying off gradually without weakening the system, all the impurities and foul humors of the all the impurities and four humors of the secretions; at the same time Correcting Acidity of the Stomach, curing Biliousness, Dyspepsia, Head: ches. Dizziness, Hearthurn, Constipation. Dryness of the Skin, Dropsy, Dimness of Vision, Jaundice. Salt Rheum, Erysipeles, Scrofula, Fluttering of the Heart, Nervousness and General Debility all these and many other similarity. Debility; all these and many other similar Complaints yield to the happy influence of BURDOCK BLOOD BITTERS.

Sample Bottles 10c; Regular size \$1. For sale by all dealers.

T. MILBURN & CO., Proprietors, Toronto

JOSEPH McAFEE.

Warehouse, Main St., St. John, N.B.

AGRICULTURAL IMPLEMENTS.

Cooking, Ship, Parlor & Office Stoves

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

Power Capstans, Patent Ship Pumps With Copper Chambers.

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

Work done to Order with Quick Despatch.

IKMIN & ROAD

Commission Lumber Dealers,

FORWARDERS.

Shipping&General Agents

PORT HOPE.

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

ST. JOHN, N. B.

an Brothers

MANUFACTURERS OF ALL KINDS OF

Steam Engines

MILL MACHINERY.

Ships Windlasses, Iron Capstans and Ships CASTINGS of all kinds.

Ships Cambooses & Cabin Stoves COOKING AND HEATING

STOVES,

Shop, Office and Parlor Stoves, and Franklins.

Agricultural Implements.

BRASS CASTINGS.

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

Market Reports.

MOSTREAL.

From Our Own Correspondent.

MARCH 24th.—The action of the authorities in charging over weight of from \$2 to \$5 on lumber brought by the Q. M. & O. Railway, has for the time being put a stop to importations by that live, and no more will likely be brought this spring merchants preferring now to wait the opening of navigation; this, however will cause no inconvenience here, as stocks of most kinds of lumber are ample to meet the domand, which has been fair during the past two weeks Prices are firm but not quotably changed We continue to quote : Pine 1st quality, V M

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London mail advices say that there is special dullness in the lumber market, buyers and sellers being wide apart in their views. Sucks are not much behind that of last year, and during the week ending first inst., 7 timber ladon vessels were reported either lost or disabled. From Liverpool we learn that a better business has been done, but prices rule low.

Cornwood.—There has been quite an excitement among cordwood dealers during the last week owing to the new regulation which came into force in the rates of freight charged on wood by the Q. M. O. & O. Railway, which used to be paid for at the rate of \$1.50 a cord from the Ottawa District, but is now charged for by weight, which will make a difference of about \$7.50 per car load from that district, and \$6.25 from St. Jerome. This has stopped the demand from the depot, and dealers are auxiously looking forward to the opening of navigation, when they will be enabled to get their supplies by the canal, and in the meantime they have petitioned the Government to restore the former rate of \$1.50. The public, or rather consumers, consider they have been rather hardly dealt with in this matter, as one of the principal reasons for the city giving one million dollars towards the building of the railway was that fuel could be brought from the back woods much more cheaply than formerly. Owing to considerable stocks on hand no advance has yet taken place in quotations, but on all coming under the new tariff, it is fully expected that a rise of 50 cents per cord will be established. There has been a fairly active demand lately for wood, which we still quote at the railway depot, ex cartage:-

TORONTO.

From our own Correspondent.

MARCH 22nd.—Active preparations are now being made for the opening of navigation, and several vessels are new leading ready for a start as soon as the month closes. The Marquis, John Bently and Annie Mulrey, three vessels owned by Capt. Hall, of this city, will all take cedar ties the first trip, and are now on the way loading ; the total capacity of the three above named crafts is 1,250,000 ft. Rates to Oswego will open at \$1.25 per M., and strong efforts will be made to ship all dry lumber away as fast as versels can be procured to carry it, but the want of proper dock room on which to pile lumber pending the arrival of vessels, is seriously felt, car lots in many cases having to be unloaded and again reloaded to shunt to the vessel's rail, or else the cars are kept under board, thereby causing a scarcity of cars during the busiest portion of the shipping meason; the N. & N. W. R. Co. are likely to be taxed to their utmost to supply shippers with sufficient cars, as the square timber will have to come here at the same time as early shipments of sawn lumber, whereas in former years the bulk of the to-day throughout the lumbering interest of this proaching season's trade, very fair quotations says that the moderate views as to values, held

hawn timber for the English market got in port before the opening of navigation, and although the company have placed their booms in position, not a stick of timber has yet arrived, so that when the limited water front owned by the R. R. Co. is partly taken up by the timbermen, it makes shipping by vessels slow and voxations.

The mild and rainy weather of the past few weeks has operated somewhat against the brisk sales from the yards, as the new streets, on which most of the building operations are in progress, have become nearly impassable for laden teams, vet so far as my observation goes, most of the retail yards have had all they could do to furnish orders, and you will observe that bill stuff has advanced \$1 per M., and will, I think, remain at that figure during the season. Good cut up 1½ m. and 2 m. dry plank is in demand, but hard to obtain. Considerable dressed flooring, sheathing, and clap-boarding is now being shipped from here by rail to Manitoba, and no doubt but that a large quantity of such lumber will be shipped there during this coming sum mer, which will tend still more to create a scar city of dry stuff here on the local market.

In continuing my observations anent our woodworking establishments here, I would next call your attention to the factory owned by J. B. Smith, on the Esplanade west of Yonge street. All the appliances for the cheapening of labour are to be found in this building, and thoroughly experienced hands in charge, and as a large retail lumber business is run in connection with the factory, quite an extensive business is done, prepared lumber being sent as far east as Montreal.

A little farther west and situated on the corner of Lorne street and the Esplanade, stands the extensive sawing and planing mills, owned by Messrs, McCracken & Oliver. This firm keeps logs of all lengths on hand, so that any desired piece of timber can be turned from their saw carriage at short notice, and all fancy woods from their own extensive covered yard, adjoining the mill, can be immediately manipulated into any desired shape required by their customers.

The next in order are the large shops and nachinery owned by Bryce Bros., situated at the foot of Frederick street. This factory was formerly operated by Joseph Gearing, who skipped out between the two lights to the land of the stars and stripes, leaving a host of creditors to mourn over their losses, but the old stand has now passed into energetic hands, and will be doubtless run for all it is worth, and as the firm has a large stock of lumber at all times on hand at their retail premises near by, their facilities for turning out good work, and plenty of it, are unsurpassed.

In my last letter where it reads " As it is well understood that the N. R. Co. receives no benefit for the charge levied for excess weight," it should read the "M. R. Co.," as all Midland Railway cars pass over the G. T. R. c · route to this city.

QUOTATIONS, FROM YARDS.

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LONDON, ONT.

From Our Own Correspondent.

is fully borne out by the feeling which prevails

city. The inevitable result of an unseasonable winter must be higher prices, and there is greater firmness displayed to-day than perhaps at any time during the last three months. Prices, however, cannot be said to be higher, but in no cases do we hear of any of the merchants making even the slightest concessions in consideration of that tempting "feeler" cash. Prospects for this spring are looking bright, and nearly all the lumber merchants have placed their contracts for supplies. One of our largest firms have placed their orders for about six million feet of lumber alone.

It is feared that the great Northwest boom will take away many of our carpenters and builders as soon as strong evidences of spring assert themselves, and that labor will be scarce and consequently will cost more; this, together with the anticipated advance in lumber, will add a considerable percentage to the cost of building.

An item in the London Free Press, of Thursday, says :- "A deputation from Chatham, Ont., will wait on the Minister of Finance tomorrow to urge the imposition of an export duty on elm logs shipped to the United States. The deputation consists of manufacturers of elm staves, who used to do a large business to the United States, but a duty of 25 per cent. having been imposed on the staves by the United States Government, and the logs being admitted free, the manufacture of the staves have been thrown ing the hands of American manufacturors. The Canadian manufacturers think that by imposing an export duty on the logs they can recover most of their trade." I do not know how this will result, inasmuch as logs can only be classified as "raw material," and the imposition of an export duty might recoil on the heads of the projectors.

After the many promises I have made to furnish you with a data of the business done here for the past year, I cannot with consistency "hang fire" any longer, and I now berein give you an authentic statement of what has been done; and allow me here to thank the merchants of this city who received your correspondent so courteously, and so willingly furnished the information desired.

| STATEMENT OF BUSINESS DOING FOR TEAR 1881.
Lumber (all grades) ft	13,740,300
Pieces Lath	0,190,190
Shingles	8,755,000
The quotations are at the present time about	

the same as last and you will be safe in giving them at this date. They are as follows :-

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Mill cu	ll loanis	and sca	ntline				.211	00
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OTTAWA.

MARCH 23.—Extensive preparations are now being made by the lumbering firms here for the spring drive. All the men that can be engaged are being sent up the river. Agents complain of a scarcity of men, and wages are consequent ly high. From \$25 to \$30 per month are paid. As soon as operations in the shanties, which are, however, being pushed on vigorously, come to a stop, there will be, it is thought, lots of hands for the drive. Timber and logs will continue to be manufactured until the first week in May in the most of the shanties on the Upper Ottawa, and on the Kippewa in particular. There are a number of concerns already closed, however, for want of snow, among them Capt. Young's shanties on Bissett's Creek, and Campbell Me-Dougall's. Quite a number of this season's logs will be left in the woods, as generally happens, owing to innumerable difficulties in having them conveyed to the main streams. Demand for logs at present is fair, and lumber quotations also remain steady, with an upward tendency. *LARCH 24th.-The substance of my last letter Mill culls bring SS per thousand, and shipping culls from \$12 to \$13. In regard to the apare confidently expected to prevail, and a good summer is anticipated. Stocks on hand are not very large, orders having been continually filled during the past winter by rail shipment. The mills here will begin as early as possible, about the 1st of May.

MIDEAND.
From our own Correspondent.

The prospects here are that a large cut of lumber will be made this present season. several mill owners have made every effort to have their mills well stocked. The only ques tion now will be the water supply for the drives. Dollars mill be running to its full capacity; Chew Bros. have cut 4,000,000 feet of logs for their mill, the British Canadian Lumber and Timber Co. expect about from 33,000,000 to 36,-000,000 feet of logs, and their new null on Hugel Point here will be ready for cutting early in the season. J. A. Smith, of Port Hope, is engaged in taking out oak for car stuff, and is also dealing quite largely in ties, basswood and maple. He has shipped from this point to Niagara Falls sixteen carloads of poplar to be manufactured into paper. Tait's mill is now running daily, cutting oak for car stuff.

Property here is advancing rapidly; quite a

boom in the market. A hotel stand sold for \$2,500 nine months since and now \$7,000 are refused, and a lot sold one year since for \$400, while new \$1,400 are refused. Lots are selling rapidly, and our village is making rapid progress.

QUEBEC.

It is reported that Messrs. Sharples & Co. and Messrs. Burstall & Co. have purchased this season's cut of Montmorenci pine deals at about \$110 for firsts, \$73.33 for seconds, and \$36.66 for thirds. Messrs. R. R. Dobell & Co. are the largest holders of wancy and square pine timber in this market. They have purchased very largely this season, and are said to have the control of 4,000,000 feet.

ST. JOHN, N. B.

From Our Own Correspondent.

MARCH 22nd.—There is very little to notice in connection with our wood trade since last report. The weather continues cold, and the roads are in a better condition for hauling than usual at this season of the year, enabling the lumbermen to continue their operations in some sections, compensating in a small measure for the disadvantages of the mild weather in the earlier part of the season.

Some of our city mills have commenced sawing, but as the available supply of logs is very light, sawing operations will be on a limited scale till after the opening of the river, which generally takes place between the 20th and the last of April.

PREIGHTS.

The demand for tonnage continues very light. In last report 60s, was quoted as the market rate: since that time two vessels have been placed at that figure, viz., Herbert Beech, 1,061, for Liverpool, and Kato Sancton, 677, for a direct port East Coast of Ireland. Quotations nominal, unchanged.

SHIPMENTS

The shipments of deals and other sawn lumber aro as follows :-

The number of sugar box shooks shipped for Cubs is as follows :-

BHIPPING.

The following is a list of the vessels in port, with their tonnage and destinations:—
Richard Hutchinson, 739, Penarth Roads, or E. C.

reland. Maria Alstrup, 332, Bristol Channel, or K. C. I. Oliver Emery, 623, Bristol Channel, or K. C. I. John Black, 645, W. C. England, E. C. I., or Glas-

ow.
Kato Sancton, 677, East Coast Ireland.
Herbert Reech, 1,001, Liverpool.
Our Annie, 364, discharging.
Milo, 684, W. C. England or E. C. 1.
Hachdors, 685, —
Brothers, 537, —

CHICAGO.

MARCH 23.-The Northwestern Lumberman

this spring by Chicago dealers, is having a good effect on trade at this point. While other markets are bowling prices up the incline, values here are held with a steady hand at figures prevailing on January 1, with nobody favoring advanced rates. This is bringing a large amount of trade to this city that would otherwise go to other sources of supply.

As an indication of the state of trade, it is mentioned that one concern the past week received orders in one day to the air at of 1,200, 000 feet. This day's work was, coptional, but it shows that lumber a large scale. The average sales of he same company have reached 4,000,000 feet a month since January 1, and it is not rejuted to be the heaviest concern in the district either

Recoipts and shipments of lumber and shingles for the week ending March 23, 1882 — RECEIPTS. SHIPMENTS.

Lumber. Shingles. Lumber. Shingles. 1882... 5,552,000 1,048,000 39,162,000 11,075,000 1881... 3,242,000 1,001,000 10,333,000 4,020,000 Receirts and shipments of lumbor and

Recoirds and shipments of lumber and shing' from January 1, to March 23, inclusive:—

RECEIPTS.

SHIPMENTS.

numper.	Saingies.	Lumoer	Shington.
168265,860,000	13,660,000	302,704,000	91,120,000
182141,781,000	13,407,000	151,812,000	70,272,000
Inc13,569,000	253,000	150,802,000	20,545,000
370	OCK ON HAND	MARCH 1.	
	1882.	1831.	1880.
Lumber	378,658,184	333,800,030	338,996,421
Shingles	162,302,900	166,010,000	162,072,000
Lath	33,426,233	41,784,270	37,132,219
Pickets	2,354,611	2,251,433	1,467,974
Cedar poets	112,088	177,304	207,362

ALBÄNY.

March 23rd.—Quotations at the yards are as ollows:—

Pine, clear, & M	853	00363	3 00
Pine, fourths	60	000000	00
Pine, selects.	45	00005	00
Pine, selects	22	00013	
Pine, 10-in, plank, cach	ŌÓ	33000	1 44
Pine, 10-in. plank, cach	00	1900	
Pine boards, 10-ln	00	28(40)	
Pine, 10-in, boards, culls		15000	
l'inc, 10-in. boards, 10 ft., ¥ M	25	0003	
Pine, 12-in. boards, 16ft	25	000130	
Pine, 12-in, boards, 13ft	20		
Pine, 11 in siding, select			
Pine, 11-in. siding, common			
Pine, 1-in, siding, select	40	000311	ň
Pine, inch siding, common	iň	00(319	Ň
Spring hoards each	ñ	0000	Ň
Spruce, boards, each	8	00000	30
Spruce, plank, 2-in., each	×	00000	- 50
Spruce, wall strips, each			
Hemlock, boards, each			
Hemlock, joist, 4x6, each	8	00/a00	13
		00000	
	20	000000	
tellioca, wall strips, 224, cach	W		
Ash, good, & M	J.	OUG 4U	. 00
Cherry, good, & M	23	WG3U	w
Charms common 22 M	Š.	000310	w
Cherry, common, № M	23	00(435	w
Oak, good, \$21.	33	00(313	w
	50	00@25	
Hasswood, & M	7.5	00(425	00
Hickory, № M. Maple, Canada, № M.	36	006310	(0)
Maple, Canada, 4 51	26	00(330	00
Maple, American, per M	25	00(423	.00
Chestnut, № M Shingles, shaved, pine, № M	35	00(410	00
Sningles, snaved, pine, & M	Ō	00(¢ (-00
	0	00@ 4	50
cxim, sawed, pine	0	00er 4	40
Clear,		00ú; 3	
Scoar, mixed		00@ 3	
OCCUP, A.A.A	0	00\$i) 4	00
Heilioca	0	00æ 2	25
Lath, hemlock, & M	0	00(¢ 1	62
Lath, spruce, "	0	0007 I	60
Lath, plnc, "		00èt 2	

OSWEGO, N.Y.

Manch 23.—The following	owing are the	o quota
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Three uppers		00@45 00
Pickings		000235 00
Pine, common	20	006:25 0
Common	14	000118 00
Culls		00/215 00
Mill run lots		000 22 0
Sidings, selected, 1 inch	31	000133 00
It inch	34	006:33 00
Mill run, 1x10, 13 to 16 feet.	17	00/221 00
selected	23	000325 00
ahlppers	15	00(d16 00
Culls, selected	22	00(230 00
Culis	10	OCK313 OC
1x0 selected for clapboards	23	00/240 00
Shingles, XXX, 18 inch, plne	c 3	756t 4 00
XXX 18 Inch codur	•	00004 9 01
Lath	1	400 1 00

BUFFALO.

Wo quoto cargo lots:-		
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Uppers	XXX13	œ
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TONAWANDA.

CARGO LOTE—BAGINAW INSPECTION.
Three uppers......\$40 00

Three uppers	0 00/2/45 00
Common	7 60/420 00
Culls 1	1 50/212 50

D. S. BRIGGS, 9 TORONTO STREET, TORONTO.

WHOLESALE DEALER IN

Clear, Pickings, Common and Hardwood Lumber, Lath, Shingles, &c. BILL STUFF CUT TO ORDER:...

A. L. UNDERWOOD

WHOLESALE DEALÉR IN

White Pine, Basswood & Harawood, 82 King Street East,

TORONTO, ONT.

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

We have for Sale a large quantity of Plar, OAL, WHITEWOOD, ASH, CHEST, CT, CHERRY, LCT TERNUT, BASSWOOD, &c.

APPS. A SET OF TUR MACHINERY FOR SALE.
CHEAP—OR EXCHANGE FOR LUMBER.

CANADA TRUSS FACTORY

(ESTABLISHED 1850)

F. GROSS,

Manufacturer of SURGICAL and ORTHOPEDICAL INSTRUMENTS. ARTIFICIAL LIMIS made to order. INDIA RUBBER GOODS of every description. 1114

688 and 690 Craig Street, Montreal.

P. PAYETT'S NEW IMPROVED

Adjustable Saw Guide

Can be adjusted without danger. You can take your saw off without taking the guide off the frame.

All kinds of Brass & Iron Casting

PLAINING and TURNING done with Despatch. For particulars address:

CRAIG & CAMERON,
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NEW FOUNDRY FIRM.

McLean, Brayshaw & Co Simcoe Street,

PETERBOROUGH.

CASTINGS of every description in Brass and Iron.
All sorts of MACHINERY for Saw and Grist Mills.

Mills.

STEAM FEED for Circular Saws.

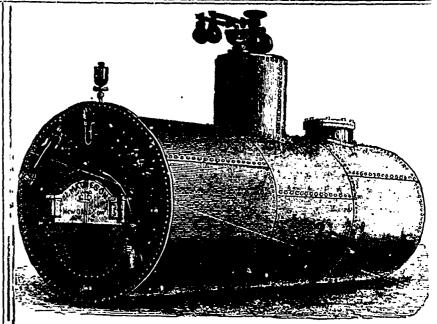
Also Saw Gummers, Cutters, Double Upset Swages, and all Saw Tools.

LEATHER Belting.

Chipman, Renaud & Co.

FIRE ENGINE HOSE
LACE LEATRER, &c.
124 & 126 Queen St.

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IMATHEON & COLUMN THE COLUMN THE

ALL KINDS OF

Machinery, Marine, Portable and Stationary Boilers.

Pump Boilers for Stationary Mills

153 & 155 Front Street, TORONTO.

J. PERKINS, PROPRIETOR

JONES & SON, Wholesale Lumber & Timber Dealers

39 Broadway, NEW YORK.

Oak, Ash, Cherry, Black Walnut, Poplar, Butternut

And all other Kinds of HARDWOOD LUMBER

White and Yellow Pine Lumber and Timber.

Oak Ship Plank and Timber. Pine Deck Plank and

Ship Stock Generally.

MACHINE OILS, ETC.

McCOLL BROS. & Co.

TORONTO,

MANUFACTURERS and WHOLESALE DEALERS IN

Machine and Illuminating Oils

Four (4) Medals and Three (3) Diplomas awarded to them in 1881, by the Leading Exhibitions of the Dominion.

SEND FOR PRICES, ETC.

ROBERT W. LOWE,

AUCTIONEER AND COMMISSION MERCHANT

81 SANDS BUILDING, PRINCE WILLIAM STREET.

Cash advanced on Costs put in for sale. 27 No Storage charged. All kinds of Merchandise Bought and Sold. New and Second-hand Furniture always on hand. Agent for Hazeihurst & Co's WINTHROP COOKING RANGES, WATERLOO WOOD STOVES, FRANKLIN, &c., &c., &c.

SAIRT JOHN, NEW BRUNSWICK.



Wrought Iron Shanty Cook Stoves Steam Engines, Mill Gearing, Rotary Mills, Shafting,

The Best Article ever offered to the Trade.

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

SINGLE OVEN STOVE

Top surface contains six 10-inch holes, with ample room between, and one oven 16 x 21 x 26.

DOUBLE OVEN STOVE

The Double Oven has a top surface containing twelve 10-linch pot holes, with two ovens, each 16 x 24 x 26. One fire-box of suitable size for area to be heated. Below will be found Testimonials from some of the leg-ling Lumbermen, who have used my Wrought Iron Cook Stovessince 1 commenced manufacturing them. They are the manes of gentlemen who are well known and reliable, and will carry more weight to an any recommendation of my own could do.

The Best Stove I have ever Used.

PRIERROROGON, May 31, 1880.

Anan Hatt, Esq., Peterborough. Dear Sir, —I have used your Wrought Iron Gooking Stove in our lumber ing operations since its introduction here, and have no hesitation in anying that I prefer it to any other. For durability, economy and efficiency, where a large number of men are employed, it is the best stove I have ever used. You can, with confidence, offer it to hotals, bearing houses and lumbermen.

Yours truly, THOS. GEO HAZLITT.

The Stove for Lumbermen,
PETERBOROUGH, June 1st, 1880 ADAM HALL, Esq., Peterborough. My Dear Sir,—We have used your Wrought Iron Cooking Stove and find it is very satisfactory for lumber operations, especially so on drives. We can recommend it highly Yours truly, IRWIN & BOYD,

Given the Greatest Satisfaction.

PETERBOROUGH, June 3rd, 1880. A. Hall, Peterborough. Dear Sir, -I have had the Wrought Iron Cook Stove, purchased from you, in constant use over since last fall, and it gives the greatest satisfaction in every respect. I can recommend them highly to any one who is in the lumber business. Very truly yours, GEO. HILLIARD, M.P.

EVERY STOVE GUARANTEED

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

ADAM HALL, Peterborough. When you visit Toronto, come direct to OAK HALL, and fit yourselves out with a Good Sult. Remember the address:-OAK HALL, the Great One Price Clothing House, Toronto, opposite St. Jame's Cathedral.

Northey's Steam Pump Works

BOILER FEED PUMPS.

AIR AND CIRCULATING PUMPS. STEAM FIRE PUMPS, and

WRECKING PUMPS.

MINING PUMPS.

PUMPS SPECIALLY ADAPTED for OIL PIPE LINES.

And CITY WATER WORKS.

No. 47 King William Street.

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ESTABLISHED 1820.

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GEORGE BRUSH

14 to 34 King and Queen Streets, MONTREAL,

Steam Engines, Steam Boilers, Hoisting Engines, Steam Pumps, CIRCULAR SAW MILLS, BARK MILLS, SHINGLE MILLS.

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

AND AGENT FOR

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

Planers, Hangers, Pulleys, Variety Moulders.

SPECIAL MACHINERY MADE TO ORDER

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

Foundry and Machine Shop on City Road, ST. JOHN, NEW BRUNSWICK.

Nos. 115, 117, 119, 121, King St. East, Toronto.

We are the most Extensive CLOTHIERS in Canada.

We carry a STOCK of FIFTY THOUSAND DOLLARS to choose from. We watch the interest of our Customers. Our stock is FULL of the very best goods in Scotch, English and Canadian Tweeds.

We BUY and SELL for Cash, therefore it enables us to do business on very SMALL PROFITS.

NOTE THE PRICES.

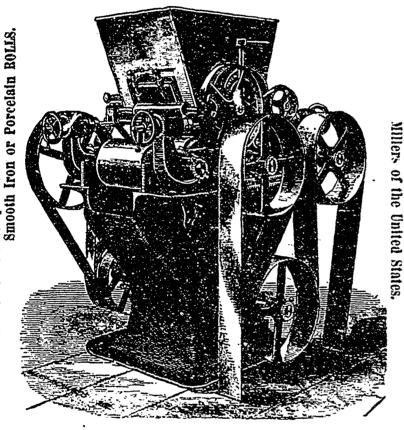
We	give a	a Good	Tweed Suit for\$6	00
We	give a	a Good	Tweed Pants for 1	50
			Overalls for 0	

Flour Making by the New Process

GRAY'S PATENT NOISELESS ROLLER MILL

A Model of Perfection!

Every Mill a Success!



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

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

Driven entirely by BELTS.

CORREGATIONS of all Descriptions.

Differential Speed always insured.

WEYMAN'S NEW IMPROVED PATENT

Porcelain Rolls

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

MILLER BROS. & MITCHELL,

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SOLE LICENSEES FOR DOMINION.

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

MILL SUPPLIES

Extra Stretched and Patent Smooth Surface

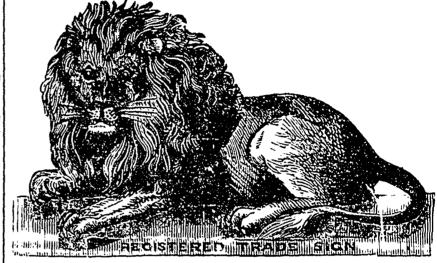
RUBBER BELTING—in Stock, 2, 3, 4, 5, and 6 Plies.
HOYT'S CELEBRATED LEATHER BELTING.
COTTON BELTING, for Flour Mills. &c., Superior Quality.

DISSTON'S CELEBRATED MILL SAWS.

Stoam Packing of all kinds, Rubber and Linen Hose, Silk Bolting Cloth, Emery Wheels, Lacing Leather (Page's Gonuine), Lard, Seal, Cylinder, Spindle, West Virginia and Wool Oils. Our Stock includes Mill Supplies and Rubber Goods of all kinds.

ESTEY, ALLWOOD & CO., SAINT JOHN, NEW BRUNSWICK.

THE GOLDEN LION



IS THE RICHT HOUSE FOR

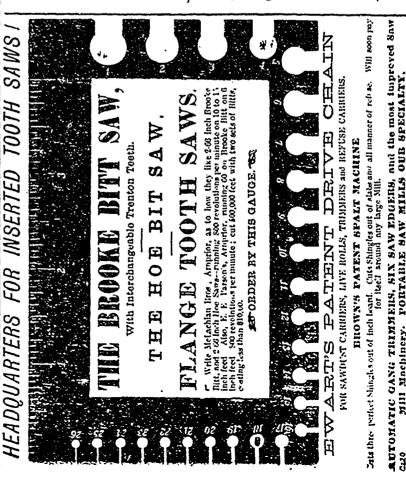
CLOTHING

No Shoudy Cloths used. All Goods Manufactured on the Premises.

EVERY GARMENT WARRANTED. THE Men's Flannel Shirts and Durable Underclothing.

ORDERS SENT WITH MONEY PROMPTLY ATTENDED TO.

R. WALKER & SONS, 33-37, King & Colborne Sts., Toronto



Moronto Rovember 1 pt 1881 Mesor the Joseph Hall Manufo Co Ospana Hentlemen Then you were thanfacturing Engines and Will machinerym 18/2 you supplied mewith all the Wachung for my Saw-Mill at Medland. Every part of the Work was strictly first class and gave me the greatest possible Satisfaction. I never saw as good allot of Washingery. The material was the very best quality and the workmanskip unsurpassed: Until my will was burned and rebuilt and not fully realize how entirely you carried out your agreement lo do me a first class job The Enques, Doilers, Circulars, Ganges, and connections worked Aplendedly In the crection of the Hackwery we had no trouble everything was according to the plans and specifications furnished an Nuras put logather without alteration Law pleased to leave of any hund that you have repurchased the patterns and plant you sold to the Manifg Coy and mend to Hamfacture all friends of Mill Machinery you shall have all the works scan send you yours very fully President of the British Canadian Lumbering and Timber Co.

HART EMERY WHEEL COMPANY, Limited

HAMILTON, CANADA.

GILBERT HART, Detroit,
President.

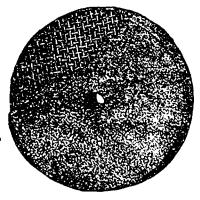
JAMES T. BARNARD, Hamilton, Secretary-Treasurer. SAMUEL BRIGGS, Hamilton, Superintendent.

MANUFACTURERS OF THE CELEBRATED

20 33; AL 385 (O) 37; AL

EMERY and CORUNDUM WHEELS

These Wheels are
Wire Strengthened



And Specially Adapted
For Saw Gumming

Neither Animal nor Vegetable Glue or Gum being used in their composition, they are NOT LIABLE TO HEAT, and give out no Odors, while

They Surpass All Other Wheels for Free Cutting and Durability.

We refer to the following well known Saw Manufacturers for Opinions as to the Quality of our Wheels:

Messrs. SHURLEY & DIETRICH, GALT.

Messrs. R. H. SMITH & CO., ST. CATHERINES.

JAMES ROBERTSON, ESQ., MONTREAL.

Messrs. JAMES ROBERSTON & CO., TORONTO.

WE ALSO REFER TO

WILLIAM HAMILTON, ESQ.,
PETERBOROUGH,
Manufacturer of the Covell Saw Sharpeners.

Messrs. H. B. RATHBUN & SON,
DESERONTO,
Lumber Merchants.

M. Covel's Latest Improved Automatic Saw Sharpener!

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

CIRCULAR SAW STEAM FEED!

I would also call special attention to my

Heavy Circular Saw Mills

and for STEAM MILLS, would recommend the Steam Feed, having put inseveral which are giving the best of sat isfaction, as will be seen by the following testimonials. -

GRAVENHURST, August 20th, 1880.

WM. HAMILTON, ESQ., Polerborough.

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

Yours respectfully.

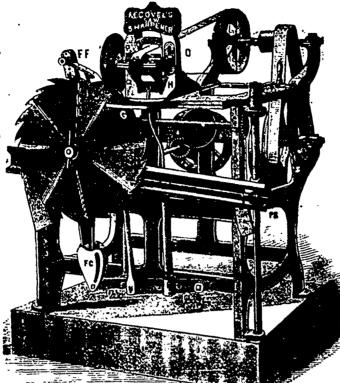
Yours respectfully,
WILLIAM TAIT,
Lumberman, Gravenhurst.

TORONTO, August 11th, 1880.

WM. HAMILTON, Peterborough, Out.

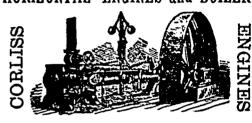
DEAR BIR-The Steam Feed you put in is working spiendidly.
Yours, &c.,

THOMPSON, SMITH & BON.



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

HORIZONTAL ENGINES and BOILERS



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

HAMILTON.

PETERBOROUGH, ONT.



Solid Emery Wheels are now aimost in universal use for the purpose of gulletting and gumming saws. Statistics show from 25,000 to 30,000 saw-mills in the United States. Many of these run only a single saw each. A one-saw mill would use one or two wheels a year, cesting S3 to \$4 each, and when such small mills order single Emery Wheels from the factory, the express charges often equal the cost of the wheel. There was a time when the quality of Emery Wheels was so uncertain, and the demand so fickle, that storekeepers could not afford to carry them in stock. Now, however, Saw Gumming Wheels have become as staple an article as Files, and every dealer in saws, liardware and Mill Supplies can afford to carry a few dozon standard sizes in stock, Large dealers order stocks of \$500 to \$750 worth at a time. Saw Gumming Wheels are used with the edge (or face) square, round or beyeled. Probably saven-circles of all in use are bayeled. or beveled. Probably seven-eighns of all in use are beveled.

Tne principal sizes are:

$$\begin{cases}
8x_{1} \\
8x_{1} \\
8x_{1} \\
8x_{1}
\end{cases}$$

$$\begin{cases}
10x_{1} \\
10x_{2} \\
10x_{3} \\
10x_{4}
\end{cases}$$

$$\begin{cases}
12x_{1} \\
12x_{3} \\
12x_{3} \\
12x_{3} \\
12x_{4} \\
12x_{4} \\
12x_{5} \\
12x$$

Probably more wheels 12x1, 12x1 and 12x1 are used than all the other sizes together. Saw Gumming Whoels are used, however, of all sizes up to 24x14. The most frequent complaint is that Emery Wheels harden the saw so that a file won't touch it. The answer is that you don't wants sile to touch it. An expert workman will shape and sharpen the teeth with an Emery Wheel, leaving the teeth case hardened, in which condition the saw will cut about 33 per cent, more lumber than a soft saw will. Those who want to use the flir, however, have only to touch the saw lightly a second time (after going all over it once), and this second touch will cut through the case-hardened scale.

A QUESTION OF QUALITY.

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

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

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

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

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

The Tanite Co. Stroudsburg, Monroe Co. Pennsylvania

CANADIAN TRADE SPECIALLY SOLICITED.