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FUBLISHED SEMI-MONTHLY.

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

(Subscription 18200 Per Annus.

VOL. 2.

PETERBOROUGH, ONT., AUGUST 1, 1882.

NO. 15.

RESERVING THE SCREAMS

graph :-

Government of the Bill which provided for such passage of streams. Had it not been for law, and there would have been no necessity is the law of the land now, by virtue of an Act passed over 30 years ago. I have heard it stated since the election that our opponents have alleged that this reservation gives parties the right to enter upon the land and take timupon streams. This you will see is not the case, and there is not the slightest foundation for the statement. Instead of this provision being 20 miles from Navajoe Springs, Arizona. against the interests of the settler it is entirely in his favour, because there are very few making some trifling improvements upon them and prevent anybody using them but himself. ing them. If there is one thing more than another that is Of course if the law, which we re-enacted last vision will disappear from the patents.'

The following is a clause in the patents referred to above :-

tract of land, hereby granted, conveyed and assured unto the said ing, nevertheless, unto Us, Our Heirs and Suc enjoyment of, in, over and upon all navigable, with tools and appliances complete.

to use the same the free use and navigation of A letter by Mr. T. B. Pardee, the Untario all crocks and streams running through or upon years ago when taking possession of the country.

omnissioner of Crown Lands, has been publiany part of the said parcel or tract of land the land beds being the remains of the blood Commissioner of Crown Lands, has been publiany part of the said parcel or tract of land lished, it which appears the following para- hereby granted and not embraced in the reser that ran from his wounds. Specimens by vation hereinbefore contained, for the purpose "As to the reservation contained in the of running and floating down saw lows and patents giving the right to float timber, &c., other timber, lumber, rafts, and crafts, at all down streams, I send you one of the patents in times and seasons, and excepting and reserving order that you may see for yourself what this also for the use and benefit of all persons require to be seen ; wood being very scarce, the soil was reservation it. It gives all parties the right to ing to use the same, for the purpose of running use streams for the purpose of floating down all and heating down or upon any creek, stream or kinds of timber, and it will be seen that this mavigable water upon the said parcel or tract of provision is as much in the interest of the land, the right to enter in and upon the same settler as that of the lumberman, because many | parcel or tract of land, and to occupy and use settlers now (and the time will come when this so much of the banks of the said creeks or will be much more the case) require to use these streams and of the said navigable waters as may streams for the purpose of getting to market be necessary for the purpose of such running ties, poles, and other timber of a like kind, and floating, and for the further purpose of growing upon their lands. The reason that orecting, constructing and repairing such dame, this clause has been inserted in the patents was slides, and works as may be required for the on account of the disallowance by the Dominion | purposes aforesaid, doing no unnecessary dame age thereby.

"And it is hereby declared that the grant this disallowance it would have been the statute aforesaid is minde on the express condition that the said Grantee, for himself, his Heirs and for inserting such a reservation in the patents. Assigns, consents and agrees that all persons In fact, the Court of Appeal has held that this desiring to us he same shall have the right to onjoy the easements hereinbefore reserved.

POSSIL TREES.

The Southenian Institution has received from Fort Wingate, New Mexico, a car load of ber for the purpose of making improvements curiosities, including portions of two stone trees, one from the neighborhood of the Fort, the other from the banks of the Lithodendron,

For these missive specimens the museum is indebted to the thoughtfulness of General streams in the whole of Muskoka which some Sherman, who, while crossing the continent in able destruction of valuable timber with the one individual could not absolutely control by 1878, suggested to Colonel Swain, then in com- consequent losses to the lumbermen and the mand at For Wingate, the expediency of secur-

on the side of the people and against what was organized early in the spring of 1879 to pro- who visit the backwoods in the summer time, as might be called monoply, it is this reservation, | coed to the Lithodendron (stone trees) in | these are the stereutyped accounts of proceed session, is not again disallowed, then this pro- long residence in that part of the country, and which will continue to occur so long as familiar with the locality to be explored, kinu, lumbering continues and valuable timber re volunteered his services, and success was, in a mains to be destroyed. Already forest fires in great measure, due to his efforts in carrying out the interior of Wisconsin have destroyed several "To have and to hold the said parcel or the wishes of the General. The military detail logging camps with all the cut of logs and an consisted of Second Lieut. J. T. C. Hegowald, immense amount of standing timber. It is re Heirs and one seargent, and twelve soldiers, all of the ported several lives have been lost and many Assigns forever, saving, excepting, and reserv Fifteenth United States Infantry, and the party cattle burned to death. It is stated that at was well supplied with army waggon running the free uses, passage and gears specially arranged for having stone, and

part of the said parcel, or tract of Land hereby pasturing their sheep about the head waters of desiberate criminal carelessness are responsible. A Yorne May writes: "I have used Mark's granted as aforessid, and also excepting and the Lithodendron, thought it was very strange for nearly every one of these fires, and that few, the result. It has cured me after doctors and for the benefit and use of all persons requiring should want some of the bones of the those deliberately prepared by the lumbermen, in another column.

"Great Giant ' their forefathers had killed thousands were found on each side of the valley of the Lithodendron, there about half a mile wide. Along the slopes, which were per haps 50 feet high, no vegetation whatever was composed of clay and sand mostly, and the petrifactions, broken into millions of pieces, lay scattered adow: the slopes. Some of the large fossil trees were well preserved, though the action of the heat and cold had broken me * of them in sections from 2 to 10 feet long, Many of them must have been immense trees, several which Lieutenant Hegewald measured were from 150 to 200 feet in length, and from 2 to 41 feet in diameter, the centers often containing beautiful quartz crystals.

Only one of the two specimens obtained from the Lithedendron by Mr. Kearns and Lieutenant Hegewald was forwarded to Washington. In the place of the second one brought in from the locality of the Lithodendron, a better speci men was found on the Mesa, to the north of and adjacent to Fort Wingste. The specimens had to be hauled to Santa Fo, New Mexico, to be shipped by rail.

FOREST FIRES.

During the next few months we may expect to see the usual accounts of forest fires having spread over large areas, destroyed much valu able property and imperiled many lives, with these will be complaints of criminal carelessness on the part of exploring parties, trappers and fishermen, and we shall be told of the lament government, and the poor innocent lumbermen will call upon the government for protection Acting upon his suggestion, an expedition against the criminal carelessness of the people Thomas V. Kearns, a gentleman of ings of which we read from year to year, and least 30,000,000 feet of standing pine has been destroyed in Pike river pinery.

It does not seem to have occurred to the waters that shall or may be hereafter found on In his report of the expedition Lieutenant minds of the average journalist or legislator or under, or be flowing through or upon any Hegewald says that the Navajoes, who were that the lumbermen themselves, by their own

but, if any one will take the trouble to think for a few minutes of the processes of taking but saw logs or squared timber, he will at once per ceive how assuredly the occurrence of these fires is provided for year after year by those who most complain of loss by them. During the whole of the winter months choppers are cutting down pine trees, trimming off tops and branches, and if for saw logs, cutting them in lengths, or if for squared timber, cutting off the sides of the trees; by these means the grand is covered with chips, branches, limbs and blocks all full of and covered with resin; but in addition to these, the lumbermen leave behind them the light brushwood which they have cut from lines of roads which they have made as avenues from the trees to the sideways and the water; so that a mass of inflammable matter with trains and avenues of communication is left covering an immense area, to he kindled into an appalling conflagration by the spark from a shantyman's pipe, the rubbing of two trees or a stroke of lightning. The hollow, dead, worm eaten, or decayed trees are left standing, some times one tree is left lodged in the hranch of another, so that every breath of war causes a rubbing which finally causes ignition, a process which taught the Indians their mode of procur ing fire; the old dry pines left standing alone are often struck by lightning which sets them on fire, and so quite natural causes communicate fire to the resinous masses left by the lumber men, in which it spreads with fearful rapidity, and sweeps with resistless force over immense areas, as the heated atmosphere prepares its way and the wind drives it forward.

What remedy, then, remains for this annual imperilment and destruction of property? Only one, and that is the proper dearing of the lands which have been cut over by the lumbermen every season. To this we hear the objection that it must cause such an increase of the cost of procuring timber as to preclude profit from the business, but we think we heard the same objection when it was proposed that these same lumbermen should no longer be allowed to dump their sawdust and slabe into the rivers and streams, to the destruction of fisheries and interference with navigation. As to this it would appear from the general reports that the preservation of our forests is one of our most important duties, and that no outlay we can make is so likely to be remunerative as that which will prevent the destruction of our timber; therefore we hope to see the question properly considered, and put a stop to the lumbermen's cry of "Wolf" -- Montreal Journal of Commerce

OUR FORESTS.

The N. Y. Shipping List truly remarks that "the question of timber preservation and timber culture, not only on the public, but on the private lands of the United States, is one of the most difficult, and also one of the most interest. ing problems that are attracting attention." If, says the Globe, it is this to the States, it is all that and a good deal more to Canada, from the fact that timber is our great stample export, whereby we pay for the most of our imports, and that a great part of the land off which it has in time past been raised is not likely ever to yield a better crop. Yet we probably find destruction going on here quite as fast as there, though to us it is doubly pernicious. Everything that our contemporary says in regard to the States applies much more strongly to Canada, and in the hope that the troubles already experinced across the line may operate as a warning on this side of it, we go on to copy its article as

"The evils of past destruction have been great increase in the cost of fuel, in the price of lumber and timber, hindering the erection of dwellings, and rendering furniture very expensive, and the high rates of fares and freight charges on our lines of travel and transportation from the increased cost of building and equipping steambe its and railroads. Cheap bread, cheap houses, cheap fuel, and cheap transporta tion of passengers and freight are fundamental to the material growth and prosperity of a na tion. All these are hindered by the havor now making in our forests. The consumption hy building railroads, for railroad fuel, the general consumption of wood for fuel in the country, the consumption by mechanical industry, the destruction by war, by improvident waste, and the destruction by farmers, who, when wood commands a high price, cut down the choicest tres, are among the causes which threaten the noble forest growth of America with extinction. Woodland brings in, without ploughing or sowing or fortilizing, that of which the average owner never has too much-ready money. The tree economists, therefore, have a powerful and wide-spread influence to contend against, and can hardly hope to arrest the tree slaughter on private lands. If they can awaken any enthusiasm for tree culture among the agricultural classes it will be about as much as we can expect them to accomplish. No private efforts can meet the emergency. Congress and the State Legislatures should afford every facility for the proper understanding of the subject, and for the adoption of the most thorough means to provent what threatens to become eventually a national calamity.

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The present commissioner of the general land office, who appears to have a just appreciation of the subject, has taken such measures as he has authority to take to more fully preserve our public timber lands in the North-west, which have been so ruthlessly destroyed in the past. The commissioner has acted upon the assumption that most of the timber depredations have been committed by ignorant and illeterate settlers, who not unnaturally imagined that settlement under homestead or pre-emption laws gave them the right to cut and sell timber at pleasure, and in many instances they have been induced by speculators to enter land for the very purpose of selling the timber from it. blanks furnished to settlers to be filled up hithorto have had no warning covering this point, but the commissioner has now supplied the omission in these emphatic terms :- "Timber land embraced in a homestead or other entry-not consummated-may be cleared in order to cultivate the land and improve the premises, but for no other purposes." It is thought that this precaution will lessen timber depredations on the public lands about one-third, which, if not an over-estimate, will be a marked and gratifying reduction of the evil, while at the same time it will give the prosecutions that may take place, the prestige of better understood law than they lities, outside the larger towns, utilize the have before enjoyed. But something more than this is needed.

Europe, in its forest laws, is far ahead of the United States, and is in less danger, at this moment, of becoming a desert than is the United States, unless something prompt, and effective

of timber which is still going on in all parts of the country. It has been truly said that growth is slow and restorations todious, while destruction is rapid and injury instantaneous. Palestine and Syria, Egypt and Italy, France and Spain have seen some of their most fertile lands turned into deserts by the destruction of the forests. There are parts of Asia Minor, of Northern Africa, of Greece, and even of Alpine Europe, once covered with luxuriant woods. verdant pastures and fertile meadows, which have now become so completely desolate as to be rendered an unfit abode for man. We are really in danger here of such a result in some sections of the country, unless intelligent and immediate measures of remedy are adopted.

PROM QUEBEC TO LONDON.

The Timber Trades Journal, of July 8th, says :- The Ocean King; though not reported in the river as soon as the Hording, mentioned in our last, was actually docked first, and may hence claim to have brought the first pine cargo of the season. The first named, a large steamers lat Ouebec two days later than the Houling. and, in addition, had to coal some way down the St. Lawrence, which caused a further delay; otherwise she would have made the passage much quicker, and no doubt passed the sailing vessel before making the land. On her part, the Hording, always a fast vessel, made on this occasion one of the quickest runs on record, viz., 21 days, being an average of 150 miles a day from port to port, a rate of speed that we think has seldom been exceeded by a sailing ship with a wood cargo.

The Ocean King has discharged her cargo amounting to over 650 standards, and is by this time probably clear of the Channel on her way to fetch another from the same port. The Hording does not appear to need such despatch as the steamer, and is still in the process of discharg ing. The cargoes brought by these vessels consisted almost entirely of bright pine deals, except in respect to the steamer, from which we observed a number of cases were being being delivered into lighters alongside.

These cargoes are both imported by Mesers. Bryant, Powis & Bryant, and appear to be in a very fine condition. This firm may claim to be the recipients of the first three spring arrivals, for since the two mentioned were docked the Earl King, another steamer from Quebec, loaded by them, arrived in the Surrey Commer cial Docks on the third, having made a quick passage from Quebec to London, being reported in the river as soon as she was due. We may look now for more activity in the vicinity of Albion Yard, as the bulk of the pine vessels discharge in the dock of that name, and, though the recently-landed cargoes will speedily be stowed away, others of the Quebec fleet may be expected to be shortly dropping in to keep the dock officials busy at this spot for some time to come; pine deals are not stacked so easily as other descriptions, from the peculiar style they are piled; thus, if many steamers compose the Quebec fleet, it will be difficult. we expect, to keep a clear space on the quays there.

SHORT SIGHTED ECONOMY.

THE Moniteur du Commerce, the admirable commercial journal published in French at Montreal, has an article on the neglect of the means of protection against fire, and as it will be both interesting and instructive to our readers, we translate it as follows :-

"The numerous disasters caused by fires in the country, and of which every day the journais record some new examples, call attention to the means of protection which in this country would be at the disposal of each municipality, but of which the carelessness and apathy of the municipal councils makes no use.

If there is any country in which water courses are numerous and in proximity to every village, it is Canada, nevertheless how few municipal neighbouring water-courses, so as to make of them reservoirs, where in cases of fire they would immediately find a valuable resource, sufficient to avert all danger.

"Have we not had a new example of this carelessness in the last few days? A village close being invaded by fire, asked aid from Longvouile in default of having the apparatus neces sary for arresting a fire at its commencement. Other villages would only have to make a trench to construct an aquoduct for some acros and all danger from fire would disappear for ever; the harvost, the cattle, and the granaries, would thus become an assured fortune that the destructiva element could not annihilate, and nevertheless they do nothing; they forget, in the absence of a disastrous precedent, that the danger is so much the greater because so far

they have escaped it.
"One can understand, to a certain point, how in the scattered villages, of which agriculture is the only industry, they dumber in the monotany of their labours and do not always keep in mind the importance of the means of protection against fire. But what can we say of a town that already possesses one of the most important cotton factories in the country, which has a trade great enough for 70 merchants to have establishments there, which comprises 688 dwelling houses, at least 600 of which are wood, which has property in real estate and stocks amounting to more than \$1,500,000, and which hesitates about the construction of an aqueduct bringing to its centre the most complete security against all danger from fire? It is thus that the municipality of Valleyfield understands the interest of the town; it is thus that house property, the cotton industry and trade of every kind, remains exposed to the risk of a conflagration which would sweep away in an instant the fea tunes of the whole population, because the apathy of some of the municipal councillors is sufficient to paralyse the intelligent and enlightened opinion of the other members of the council. Already industries in search af a suitable locality, which they hoped to find at Valleyfield, have recoiled from the danger which they would have run there, and we cannot blame them. An industry which lives by progress and activity cannot live in contact with torpid spathy which repulses all improvement."

SWEDISH EXPORTS OF WOOD.

The Timber Trades Journal says :- The exorts of wood goods from Sweden in each of the last five years, during the period from January to May, have been, according to statistical returns, as follows :-

•	Saun & planed. Pt. stds.	Hewn. Cub. ft.
1882 1881 1850 1879	33,497 141,265 43,878	1,878,811 881,641 2,855,577 674,535
1678	126,925	2,363,425

The figures are stated in cubic metres, which are reduced into Petersburg standards for the sawn and planed by 'aking every standard at 4.67204 cubic metres, and with regard to hown into English cubic feet, of which the number of 35.316 corresponds to every cubic metre. These are, no doubt, the best descriptions of measures comprehensible to the trade in this country. Deducting the figures lately quoted by the Swedish correspondent for the exports in Janu ary to April during the last two years, it will then be seen they are in May this and last year

Sav	n & planed. Pt. sids.	Hewn. Cub. ft.	1
1882	103,466 24,936	1,158,345 574,584	
nowing the enormous q Lay, in spite of the dim- condon.	uantities of t	xported the import	his to

The exports of wood pulp and matches are

iring the list hve years -	Wood Pulp.	
	Tons.	Tons.
18\$2	2,995	3,860
1881	1,457	3,405
18S0	3,310	3,592
1879	2,608	2,520
1878	1,190	2,687
C 1t	. 21	3

the figures being stated in kilogrammes, reduced to 1,016 per each ton.

THE ENGLISH MARKET.

Messrs. Robert Coltart & Co.'s wood circular of July 4th says :- "There was a very duil feeling in the wood market during the early part of the past month, the shipments of pitch pine and spruce deals by steamers, which were sold on arrival at the best prices obtainable, having somowhat depressed the market, but as steamers are not now offering for wood freights, the tone shall be done to arrest the wholesale destruction to Montreal and actually situated on the river, has latterly improved, and prices are firmer

than they were during the early part of the month. The consumption has continued on a very fair scale, and stocks, with the exception

of pitch pine, are still very light.
COLONIAL WOODS.—The stock of Quebec square and waney pine is very light, consisting of only 158,000 fcot, against 564,000 fcot at the same time last year; sales have been by retail only, with the exception of a small parcel of square pine (wrecked wood) brought coastwise, which realized an average of about 201d per foot. The demand for Red Fine is dull, the consumption during the month amounting to only 5,000 feet. Oak is in fair demand, and the stock of prime wood is small Of elm and ash there are no sales to report. Birch is in better demand, the consumption during the month consisting of 42,000 feet, against 23,000 at the same time last year; by auction, 830 logs, ex Arklow, from St. John, were sold at prices ranging from 14d to 22fd, averaging 17fd per foot, and 944 logs, ox Endymion, from Hulifax, at 141 to 221d, averaging 161d per foot; the present stock consists of 22,000 feet. The import of N. B. and N.S. spruce deals has been rather heavy during the month, several cargoes having arrived by steamers, which has caused prices to decline; by auction St. John averaged £7 7s 4d per standard, Bridgewater £7 7s 6d per standard, and St. Margaret's Bay 27 2s 3d per standard, and by private St. John has been sold at £7 to £7 5s per standard, and Bay Verte at £6 15s 6d per standard, c.i.f. Quebec pine deals have come forward to the extent of 2,627 standards, sgainst 1,042 standards during the corresponding period last year, the bulk of which has been yarded, but sales are reported at £14 10s to £15 per standard for 2nd quality, and £8 17s 6d to £9 5s per standard for 3rd quality. Of merchantable pipe and puncheon staves there are no sales to

The arrivals since our last have been 53 yessels, 40,811 tons, against 45 vessels, 33,840 tons in corresponding period last year, and 46 vessels, 33,521 tons in 1880.

From 26th January to 30th J	une, 188	52 :
1	Vessels.	Tona.
Quebec St. John, N.B., &c	. 7	5,050
United States	. 34 . 63	33,086 54,206
Baltic		32,693
24	-	52,000
Total	184	125,040
From 26th January to Suii.	une, 188	31 :
Quebec		4,027
St. John, N.B., &c	24	25,259
United States		42,199
Baltic	62	24,817
Total	148	96,302
From 26th January to 30th J	une, 188	0 ;
Quebec	2	2,517
St. John, N.B., &c	42	41,661
United States	42	34,114
Baltic	88	33,241
Total	174	111,633

SUPPLYING MANITOBA.

The Northwestern Lumberman says :- A noteworthy feature of Chicago trade latterly is the shipment of 75 cars-perhaps more-of lumber to Manitoba. Mr. Getchell, of Getchell, Armour & Co., is entitled to the credit of working up this little Manitoba boom, having visited the new Canadian province and put in some personal endeavor to effect the result. The lumber forwarded was all dry stuff, and the resources of the yards all over the district were vigorously drawn upon to make up a shipment of 60 cars, which is evidence that dry stock is not very plenty here. Round prices were paid for the lumber picked up to fill this order, and/ yet it is said the venture was a profitable one. This spurt of Manitoba business should not be taken as a premonitor for anything extensive in that direction, for coals cannot always be carried to Newcastle, neither can lumber be shipped through the producing regions of the upper Mississippi to Manitoba at a profit, unless it bo to satisfy some special demand. In this instance Minneapolis did not have the dry lum ber that Manitoba wanted, but Chicago did

THE Rev. Charles E. Piper, formerly of l'itt field, N. H., but now of Wakefield, R. I., writes:-"I have used Baxter's Mandrake Bitters in my family for over two years, and as a result have not called a physician in the whole time. My wife had been an invalid for two years, but these bitters have cured her."

F. E. DIXON & CO.

LEATHER BELTING



First Prize, First Prize, First Prize, First Prize,	Provincial Provincial Industrial Industrial	Exhibition Exhibition Exhibition Exhibition Exhibition entenulal Ex P	Hamilton, London, Toronto, Toronto,	1876 1877 1879 1880
Internation	n Medal, C	contenuial ExP	hiladelphia,	1870



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

81 Colborne Street, Toronto

We are of opinion that there is a greater malarial influence in green pine, within a short time after it has been fallen, than in the slabs and saw mill refuse which go to make land in the vicinity of a saw mill, or to fill up a stream into which it may have fallen. The writer has for many years found it impossible to chew the soft inside strata of pine bark without being afflicted with difficulties akin to chills and fever and fever and ague. Lumbermen are familiar with and foud of chewing the inside growth or skin next to the sap of a green pine, but in the case we allude to the practice had to be wholly given up for the reasons given. At no other time than when occasionally indulging in the habit referred to were the symptoms manifest, and the only conclusion that could legitimately be reached attributed the disease to that cause. We have never heard of the bark being utilized for medicinal purposes, but if the doctrines of the Homeonathic school of medicine are universal in their application, there can be no doubt that in this inner bark may be found medicinal proporties; but that its decay in the water or under the usual conditions surrounding its waste in a stream, or as a filling for low ground, is sufficiently miasmatic in its influence to give rise to a charge of unhealthfulness, we cannot for a moment believe after thirty years of careful observation. - Northwestern Lumberman.

THE Canadian Manufacturer says :- Among the industries that are "booming" just now may be mentioned the construction of readymade houses for the North- West. Such houses are being got up at Quebec, Ottawa, Belleville, Hamilton, and other points, and competition for the best and most convenient plan is lively. Tents are also in great demand, and it is said that in and about Winnipeg there are to-day more than three thousand people living in tents.



(Hydrated 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

For sale by all L sists.

Commission Lumber Dealers. FORWARDERS,

Shipping&General Agents

PORT HOPE.



TRENT NAVIGATION

NOTICE TO CONTRACTORS.

THE letting of the works for the FENELON FALLS, BUCKHORN and BURLEIOH CANALS, advertised to take place on the second day of August next, is unavoidably further postponed to the following dates:—

ir dates:—
Sonders will be received until Thursday, the
Twenty-fourth day of August next.
Plans, Specifications, &c., will be ready for examination (at the places previously monitoned) on Thursday the Tenth day of August next.

By order,
A. P. BRADLEY,

Dept. of Railways and Canals, Ottawa, 15th July, 1882.

Secretary. Cd17 2L15



Welland Canal Enlargement.

NOTICE TO CONTRACTORS.

SEALED TENDERS addressed to the undersigned,
S and endorsed "Tender for the Welland Canal,"
will be received at this Office until the arrival of the
Eastern and Western Mails on FRIDAY, the lat day of
SEPTEMBER noxt, for the deepening and completion of that part of the Welland Canal, between
Ramey's Bend and Port Colborne, known as Section 34,
embracing the greater part of what is called "Rock
Cut."

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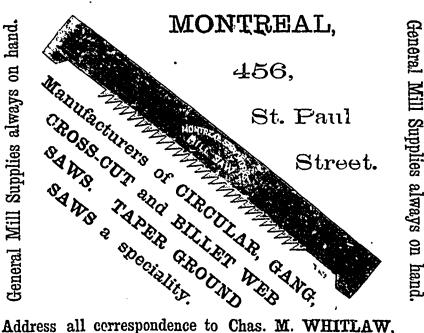
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THE CATALPA SPECIOSA.

We have before us an interesting monograph on the Western Catalpa, by Dr. John. A. Warder, of Ohio, Vice-President of the American Forestry Association, and an enthusiastic forester. He clearly proves that the hardy Western Catalpa Speciesa 'a different species from the tender Southern Catalpa Bignonicides, and points out the greater merits of his favorite tree.

Wo extract from his pamphlet the following particulars:-

The wood of the Catalpa is light, and yet it is sufficiently strong, and it is hard enough for most purposes of construction. It has been highly approved for bridge timbers where it is exposed to the weather; it has been the favorite material for fence posts in a large tract of country; it works easily in making shingles, which have been found to last longer than the houses they covered, and in one case we are told that they were really taken off and used in another building.

On the St. Louis and Iron Mountain Railway, near Charlestown, Missouri, there is a portion of the track laid eleven years ago on Catalpa sleepers, which are yet sound, while many of the eak fence posts inclosing the road, though planted since it was built, have need to be replaced. The eak ties last scarcely five years on the same soil and exposure. Mr. David Axtel, the intelligent engineer in charge of this part of the road, reports that Catalpa holds the spikes well enough, and that when the ties become mashed they are no longer rejected, but simply turned over, so as to present a new bearing. Some that had been thrown out by the track-men have been used as fonce posts, and bid fair to last for many years.

In his letter to Mr. Barney the same gentle man writes: "There is nothing to indicate that the Catalpa ties in our track do not hold spikes sufficiently well. Nearly all the spikes are in the same holes originally made when driving them. There has been no spreading of the track. I have examined the few ties the rails have settled into, and find none that will not last a number of years by turning them over. These ties are six and eight inches face; if they were wider, as you suggest, there would be more resistance to crushing."

Before passing from this branch of the sub ject, the peculiar ligneous structure of this tree should be more particularly noted. The albur num or sanwood is very limited, and consists of but one or two of the concentric layers, generally, indeed, that of the last year's growth only so that, in the preparation of cross-ties, a stick, twelve inches or more in diameter, needs only to be split or sawed, so as to make two sleepers instead of the more expensive howing required to make but one from the same material. timber, in this shape, with the maximum extent of bearing for the rail, and having only the bark and a thin layer subject to decay, may be laid with its convex side next the road bed, in the best position for tamping the tie when placed in the track.

Little need be added to the mass of facts collected by Mr. Barney, going to show that the wood of the Catalpa is strong and hard enough for most economic purposes; that it works smoothly and takes a beautiful surface, and is sufficiently varied in its tints to make it highly ornamental for inside finish. At the same time, though light, it is perdurable for all purposes where it is exposed to the elements.

Dr. Schnock, of Mt. Carmel, Illinois, states that the lumber, on account of these qualities, has been in great repute near the mouth of the Wabash. "for the building of skiffs, and that it is being rapidly exhausted in other localities by the constant demand upon the trees for fence-posts; these are taken to a great distance, and the trees ase often cut at night and stolen." Similar testimony is borne by James Bell, an extensive dealer and manufacturer of lumber at Ullin, Illinois. J. T. Mills, Esq., of the Evanswille & Terro Hauto Railroad, is purchasing many thousands of these posts to fence the road; and has also planted largely on the White River for future use.

In all the Delta region of four or five States surrounding Cairo, Illinois, particularly on the west bank of the great River, Catalpa has been in such demand for fence posts and foundation logs, that the accessible stock of standing trees is well nigh exhausted. In that low tract of humid soil, sections of Catalna logs are used to support the corners of the buildings erected there, and they make the most permanent foundations—"corner atones."

Nuar New Madrid, there are many fence posts which have stood and remained perfectly sound for long periods, 20, 30, and even 40 years. The story of the standing Catalna trees that were killed by the disturbances and rubmergence of land, caused by the earthquake of 1811, which we have all been disposed to doubt, is to this day fully confirmed by occular demonstration. In the lagoons there stand the broken shafts of noble trees; all other species, submers same catastrophe, have crumbled and fallen into the water long ago, but these silent monuments of that convulsion still remain, not as living witnesses, but as dead memorials of the disturbance of level, which caused their death, and their now approaching dissolution; but there they have stood for seventy years, under conditions most favorable to decay, and thence are they brought, when cut, and are used for fenciog.

ADAPTION TO SOIL AND CLIMATE.

With wonderful powers of accommodation wever, this tree has been found to adopt itself to almost every kind of soil. It thrives, and even becomes naturalized, reproducing itself in situations very different from those of its native homes. This it has done upon the hungry gravels about Baltimore and Washing ton, and upon the mica-schiats of Eastern Pennsylvania, as well as in the lime-stone valleys of that state. It thrives on the tertiary sands and gravels of New Jersey, near the Atlantic coast, and on the red sandstone of that state. It is found on the clay and gravel drifts of Southern New York, as well as on the Hudson, where Downing used it to retain the river banks. It may be seen on the hard conglomerate of the drift-scored rocks of Dorchester heights, and it thrives on the sands of Cape

So, also, in its Western migrations, it seems to thrive everywhere; at Cincinnati upon the tenacious clays, the resultant debris of the old silurian limestones, on the modified drift of the river torraces, and on the rich alluvium of the bottom lands, it seems equally at home. About Dayton it thrives on the terraces and bottom lands of the Miami, and at Columbus upon the rich walnut lands that rest upon the boulder drift which has ploughed through the Dovonian shales and the upper silurian limestones. At Chilicothe on the Scioto it appears to be satisfied with the hills of the Waverly sandstone, and at Marietta, where it was planted at an early day, it has become naturalized upon the debris of the coal measures there cut through by the Muskingum.

And in the States west of Ohio to which this tree has been taken, it thrives upon all soils and everywhere, if not too cold. Among the stumps of the heavily timbered lands of Indiana, and out in the open prairies of Illinois, it does equally well, but it is especially thrifty upon the great deposits of the Loess or Bluff formation of Missouri, Iowa and Nebraska, and parts of Kaneas.

In this respect the Catalpa seems to have the advantage over some other trees in its wonder ful power of adaptation, and hence its great promise as an element of success in the upbuilding of American forestry.

Mr. Robert Douglas, of Himors, who has propagated the Speciesa Catalpa more largely than anyone else, and who has planted some hundreds of thousands of them on the plains of Kausas, pronounces this Western species, which he has thoroughly studied in its native forest and artificial plantation, "one of the best, if not the very best tree, that has yet been introduced for timber plantations in the Middle States.

PROPAGATION.

The propagation of the Catalpa is very simple and easy. The plants may be multiplied by cuttings where that method is desired, it has been practised to a limited extent. In the Western forests limbs of fallen trees take root in the humid soil, and produce new crees, natural layers, giving us a hint that is put in practice when we desire to increase our stock of the dwarf kind that never blessomed. This

form and some sports, with colored foliage, may also be multiplied by grafting and budding.

But it is always best to increase our stock of these trees by sowing the seeds, which is, indeed, the only practicable method of producing the millions of plants that will be needed, so soon as the merits of this tree are appreciated. The seeds germinate readily, the plants grow rapidly and are ready to set out after one summer's growth. The seed should be kept dry during the winter, safe from the mice, and need not be planted until the soil is warmed. The soil being well prepared, a shallow drill is made. This can be done with a small plough. In this the seed is strewn rather thickly, so as to lie one or two inches apart and four or five inches wide. They should be at once covered with fine soil, from one quarter to half an inch deep, according to the condition of the ground as to humidity, and the prospects for showers. If the conditions be favorable they roon vegetate, when the young plants should be well cultivated and kept clear of weeds, especially during the first part of the season.

The leaves fall with the first frost, and, after standing a few days to harden up their tissues, the young plants may be taken up with the spade, or by using the small tree-digger plow, or even a common one-horse plow, when they should be asserted for size, and put into cellars or heeled-in deeply out of doors, unless indeed they be at once planted in their permanent stations.

PLANTATIONS.

With a proper selection of the kind—that is, of course, the favorite Catalpa Speciesa—no one need hesitate to undertake a plantation. The trees are sure to grow, are easily cultivated, and speedily yield satisfactory returns for the most valuable material.

If in the prairie regions, where the railroads are most in need of cultivated forests, to furnish the future supplies of ties, posts and other lumber, land should be selected that has already been in cultivation for one or more years. This should be well ploughed in the fall, and may then at once be planted, or left to lie fallow over winter.

The planting is a very simple affair when once a gang of liands has been organized; and each man will set from one thousand to fifteen hundred in a day. After the surface has been marked out, with furrows four feet apart, the little trees are dropped at about the same distanco, and at once planted with the spade, and the soil is closely tramped by the feet. As the rows are set, or soon after, a one-horse plow follows, to bank them up slightly. In fall planting this furrow may be made rather heavy, to protect the little plants and lead the surface water from them. This ridge will have to be worked down with harrow or cultivator in the spring, before the buds have started, and such cultivation will destroy the first crop of weeds. Cultivation should be continued at intervals during the summer, so as to keep the ground clear of weeds, and to encourage the growth of the young trees, which will have made sturdy shoots of from one to four feet high, and will be well established in the soil.

If some of the little trees be crooked or branched, no matter, for during the winter or in early spring they may all be cut off near the surface of the ground, to secure a strong, thrifty and even growth the next summer, when, if sufficiently cultivated up to July, the result will be most satisfactory and encouraging, in an even stand of study trees, averaging not more than four feet apart, and resching a height of five, six, or more feet, and so completely shading the ground that no further cultivation will be needed beyond cutting out a weed here and there during the next season.

If the growth have not been very strong the first season, it may be advisable to defer the cutting back for another year, by which time the roots will have become so much more fully established that the shoots will be proportion atoly robust; so that, with proper cultivation and removing superfluous shoots, leaving only one to each plant, the result will be a stronger growth of taker trees, and at the end of the third summer from planting they will average six feet in height.

west bank of the great River, Catalpa has been practice when we desire to increase our stock of in such demand for fonce posts and foundation the dwarf kind that never blessomed. This because of the peculiar leaf arrangement, or alightest attempt is made to obviate the danger.

phyllotaxy, in the Catalpa, which is in wheels of three, hence the tendency to throw out from the group of terminal buds as many shoots, that cause the tree to be low branched, and to require some attention in pruning; the higher the stocks, therefore, the better. The close planting here advised is also recommended with a view to obviating this difficulty, as the surplus shoots will be smothered and die where thus crowded, and little or no pruning will be required to remove them.

Thinning may become necessary after a few years, but an experience of seven or eight years in my own limited plantations induces the belief that natural causes will very near suffice to thin out the surplus trees with very little interference by human agency. Further on it may become necessary to use the are in thinning out the trees to enable them to develop themselves; but we should not count too confidently upon the profits to be derived from this source. Some poles may be had for fencing and other economi cal purposes, for garden and vineyard stakes, and even for hop-poles, to all which uses the lightness and durability of the material well adapts it. Time and experience will give us further insight into the details of trimming and of thinning the plantations.

CONCLUSION.

In drawing this monograph to a conclusion, it may be well to impress upon the reader the exceedingly important fact that we have in the United States two very distinct species of Catalpa, one of which is especially western in its native habitat. This species is in every way a superior tree for our uses, and promises to be a most important factor in our future forest plantations. It is superior in its habit and in its hardiness. What has been said of the value of Catalpa lumber may be equally true of either kind, except that our tree alone will be able to produce dimension timbers, hence, so far as at present advised and informed, you are begged to plant no other than the Catalpa Speciosa as an economical tree. The others may do on a lawn or in the park, but this alone should constitute our groves and plantations planted for utility.

Think not, however, that we who have manifested so great an interest in this tree which we have so highly recommended to you, think not that we would have you restrict yourselves to any one tree. We have indeed a noble sylva, a rich inheritance of trees, from which to make our selections. These have various excellencies and are severally adapted to diverse uses, and to different situations as to soil, aspect and elevation above the sea-level. Some are peculiarly adapted to almost every portion of our extended country, where others would not succeed. Let each planter use his own good judgment in the selection of the various kinds best adapted to his own particular local conditions.

To the great railroad corporations, who should be the first to improve their vast estates on our Western plains by timber planting, the Catalpa Speciesa is confidently presented as invaluable JOHN A. WARDER.

A WORD OF CAUTION.

The season for forest fires is approaching. The rainy period that lasted through May and June may be succeeded by a six months' drouth. The possibilities of devastating conflagrations over wide areas are before the residents in timbered regions; they are before lumbermen, whose operations last winter added a vast amount of hell-fuel to the accumulation of other years. We wonder if either residents or lumber men have once this year thought of these possibilities. Sometime between now and October there is almost sure to be sweeping fires in the lumber districts of Michigan and Wisconsin that may rival in horror and destruction Peshtigo and "Thumb." What measures have been taken to avert such disaster? Actually nothing. Experience is said to be a good schoolmaster, though his wages are enormously high. There is one class, though this paper is loth to name it, that seems to learn nothing of a prudential character by experience, and it includes pine land owners and loggers. They go on year after year and allow brush piles to accumulate on their lands-tinder for devouring flames to feed upon-and complain of the hazardous character of standing pine as property. Not the

would seem that common prudence would cause pine land owners to require jobbers to pile their brush and take care of their tree-tops. Early in the spring, before the ground is dry enough to make a running fire possible, the stuff could be burned, and thus put out of all danger of sometime feeding a mid-summer conflagration. Northern lumbermen could learn something of their southern contemporaries in regard to treatment of timber lands. It is stated by one who has recently been in Mississippi that the pine forest 'here are, in many instances, kept clean of underbrush, and debris is not allowed to accumulate to any great extent. Fires are thus avoided, and movement among the trees is easier and pleasanter. We know that there is great labor and considerable expense involved in cleaning up the down stuff on timber lands, and that is the reason why it is not done. But the cost would be no more, relatively, than men pay for insurance on other property. It is time that a movement to effect this desirable object of safety to property and life were inaugurated. Who among the lumbermen will put the ball in motion by setting a good example !- North western Lumberman.

ENCOURAGING : PE PLANTING.

The Province of Quebe. nas taken the initiative in the encouragement of the planting and cultivating of trees by an act which was passed last May, and of which the following is a short resume :-- Any one, being the proprietor or in possession as the usufructuary of any land, who shall plant any part of such land, not less than an acro in extent, with forest trees, shall be entitled to a land order authorizing him to purchase to an amount not exceeding £12, any public lands within the Crown Land Agency in which trees have been planted. These land orders are null and void if not used within two years from the date of their issue, and the lieutenant-governor, in council, may from time to time make regulations respecting the number and description of trees to be planted in each acre, the number of years during which the trees so planted shall be preserved and not cut down, and other terms and conditions to be fulfilled by persons claiming a land order. But no one can acquire less than 50 or more than 200 acres in this manner, and the order will be accepted as eash in part payment for any land bought from the crown. The planting of sceds, nuts or cuttings is considered compliance with this act, which, however, only comes in force by a proclamation of the Lieutenant-Governor, in council, in such parts of the province as specified in such proclamations.

CUTTING A BOOM.

The Ottawa Gazette, of July 14th, says :-Maurice Quesnel and Napoleon Palmer, tne first the foreman and the second one of the crew of a raft belonging to Mr. J. B. Dickson were to-day brought up under arrest at Aylmer, before Mr. C. B. Rouleau, district magistrate for the district of Ottawa, on a charge of having wilfully and maliciously cut the Alumette boom. the property of the Upper Ottawa Improvement Company. After the evidence of the witnesses establishing the fact of the boom having been cut by Palmer, under the orders of Quesnel, had been taken, Mr. Foran, on behalf of the defendants, contended that that they should be discharged masmuch as they had not cut the boom for the purpose of injuring the property of the company, but merely to get the raft out of the boom, and that consequently there was no

Mr. Fleming, for the prosecution, said in reply that it was not established that it was absolutely impossible to take the raft out of the boom without cutting it; and the mere fact of its being inconvenient and expensive to do so after the raft had been, from want of proper caution, taken below the gap in the boom, did not justify the cutting. The court held that the prisoners were not on their trial, that all that was required was a prima facie case against them, and that, moreover, the court did not consider the defendants, under the circumstances, justified in cutting the boom; and as they did so wittingly and must have known it was injuring the boom and doing the company

Since stumpage has reached its present figure, it | damage, it was in law a malicious act, the court would therefore commit the defendants for trial at the next term of the Court of Queen's Bench, but would accept bail for their appear

SWEDISH FOREST FIRES.

The Timber Trades Journal's Stockholm corespondent says :-The warm weather provalent lately in Norrland has occasioned a considerable number of forest fires, both in the Medelpad and East Jemtland districts. The most serious of these seem to be that in the neighbourhood of Oratjerndalen village, in the Sundawall dis trict, in a forest belonging to Skonviks Bolag, Sundswall, and one in a forest owned by James Dickson & Co., between Ange station and Dysjon, on the railway to Ostersund. Some of these fires in the neighbourhood of railways are no doubt caused by locomotives, others again by the carelesaness of people lighting fires in the woods. A stock of between 500 and 600 standards of deals lying ready for shipment to the Cape and Australia at Peterswik loading quay, Sundswall, and belonging to Mons Angsage, Aktiebolag, was, along with the new quay and overal lightors loaded with deals, also burnt a week ago. Ships had already been chartered to convey the goods, which the owners will have a difficulty in replacing with seasoned deals.

Two Departments well Represented.

Two Departments well Represented.

In lately walking through he Government Buildings at Ottawa, a representative of one of Ottawa's ablest journals, in the course of conversation gleaned some items of interest. Speaking with Mr. A. J. Cambie, Chief Clerk of the Agricultural Dona-tment, that gentleman replied to a certain queetion: "I have used St. Jacobs Oil in my tamily, and found it to be an excellent article indeed. It is the remedy to banish pain and has a pleasant and soothing way of doing so, that makes it valuable. I consider it a great medicine." Calling upon Mr. Sherwood of the Militia Department, that gentleman thus answered the usual query: "I have found St. Jacobs Oil a great medicine, a splended remedy, indeed, for rheumatism. I have recommended it to many. When I commenced its use I had not much faith, but now my faith could not be easily shaken. I consider it by all odds the best medicine I ever tried."

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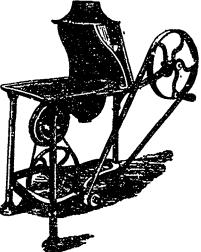
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Communications intended for insertion in the CANADA LUMBERMAN, must be accompanied by the name of the writer, not necessarily for publication, but as a guarantee of good faith. Con-mications to insure in sertion (if necepted) in the 6-lowing number, should be in the hands of the publishers a week before the date of the next issue.

PETERBOROUGH, Ont. AUGUST 1, 1882.

MANISTEE has shipped this season 2,970,000 feat of lumber, 303,684,000 shingles, besides 6,-595,000 lath, 1,242,000 feet of timber and other products.

THE Beileville Ontario says .- The last of the square timber from Crookston, for Mr Buck, has arrived here. It is his intention to bring down yet this season 30,000 cubic feet from Hastings.

THE Lindsay Post of July 21st says :- The camp of the river hands engaged in loading the timber at the wharf has bruken up. Another large lot of timber, the property of one of the banks, is expected at the mouth of the river shortly, and will be shipped by rail from Lind-Bav.

THE Timber Trades Journal Mays - The in troduction of steam-going vessels into the woodcarrying trade has this season been more marked than any preceeding year. At one of the leading east coast ports there were a fortnight ago seven full stea per loads of sawn wood in the docks being disc, arged at the same time.

At Tobyhanna Mills, Da., over 200' men and boys are kept active in the woods getting out the logs and peeling off the bark from the hemlock. This, by the way, is an important article in commerce. Over 4,000 tons were taken last year from the homlock logs. Eight thousand tons went to market from this vicinity, and it is estimated that no less than 9,000 tons will be supplied this year.

The Northwestern Lumberman says:-"Ti woman who took in stairs to wash finds her an titype in the man who goes around the country with a saw mill cutting up logs by the job, the the same as farmers thrash grain. The indica tions are that sometime this will be an impor-There has been so much ad tant industry. vance already that saw-mills are towed on rafts from one town to another. A few days ago the tug Badger came into Winneconne, Wis., with a say-mill from Omro, and the occasion was celebrated like the " Declaration of Independence, with brass bands and booming cannon.', Liverpool is of a serious character.

THE Emerson International of July 13th says:-Oarney & Watson have sold an immense quantity of lumber during the past two weeks to Monnonites, who have recently come from near harge, Dakota, and settled in the reserve west of Emerson. They are putting up good houses, and paying for their lumber in gold, of which they seem to have a good supply

The Parry Sound North Star of July 21st says:-The machinery for the manufacture of shingles is now in running order in the Parry Sound Lumber Company's ateam mill, and shingles are being turned out at a rapid rate. We understand that the shingle and planing mill of the Midland North Shore Lumber Company is being fitted up and will soon be running.

The Northwestern Lumberman says They do things on the jump in northern towns. At Duluth, Minn., the Ohio Central Barge and Coal Company is building a huge dock, and in order to have the work go through on the rush, the orders for timber have been divided among soveral mills. It is proposed to finish the first section of 300 feet in 60 days, if the thing is possible. The total water-front length of the dock is 2,000 feet.

THE Lindsay Post says .- The \$5,000 cut to shorten the water route between here and Stur geon Lake is getting along speedily. The advantage to the boats towing timber will be very great. As it now is the water stretch around the bend is the worst on the river and during a breeze of any strength both vessel and timber generally go aground. Then when the winds go down much work with rising barometer and bad language over that region.

THE Glasgow report of the Timber Trades Journal says :-- With regard to Quebec deals, taking into account the importation since the stocktaking of 31st March, the consumption during the last three months is shown to be about 2,300 St. Petersburg standards, and Lower Port deals, 3,200 standards. The quarter's consumption of pitch pine appears to be over 8,000 logs, showing a considerable falling off compared with the previous quarter. The stock, it will be observed, is ample.

The Timber Trades Journal of July 8 says :-The arrivals of cargoes of wood goods to the port of Bordeaux the last fortnight have beenone steamer from Miramichi, one sailing vessel from Bathurst, one do, from Bridgewater, N.S., two do, from Dantzic, one do, from Skein, one steamer from do., one do. from Soderhann (Bergvik), one do. from do. (Ljusne), one do. from Sundawall (Ahlafors and Tunadal), one sailing vessel from Drammen, one do. from Skutskar, one steamer from Christiana.

The Muskegon News says :- "The operations of the White River Log and Booming company have been progressing nicely thus far this year. The total amount of logs sorted, rafted and delivered from time of commencing work, March 20, including last week, was 75,000,000. To do this work the company employs about seventy men and thirty boys and one tug, the Peter Dalton. Recently it has required the assistance of another tug to do the delivering. One day the boom rafted 131 rafts of logs, in all making 13.100. This is the largest days work ever performed, 101 being the maximum heretofore.

THE Timber Trades Journal says :- Will Manchester ever develop into a timber port! Such an occurrence need not be regarded as being at all an unlikely one. The Manchester Ship Canal scheme has now assumed a definite shape. A provisional promotion committee has been formed, and a sum of money has already been subscribed for preliminary expenses. It is estimated that within a few years of the opening of the navigation 5,000,000 tons of goods will pass through the canal. It is said that of the £34,000,000 estimated value of the Liverpool exports, £43,000,000 are represented by Manchester cotton good. The effect which the canal is likely to have upon the timber trade of

FORESTRY CONGRESS.

WE beg to call the especial attention of our residers to the invitations issued for a meeting of the American Forestry Congress, to be held in Montreal on August 21st and 22nd. It will be remembered that a meeting of the National Forestry Congress was held this year in Cincinnati, but a number of gentlemen from Canada who are interested in Forestry having attended, the title of the association was changed to the "American Forestry Association," so as to include the whole continent, and steps were taken to elect officers to represent the various provinces of the Dominion. Mr. William Little, of Montreal, was appointed Vice-President for the Province of Quebec, and it is by him that the invitations for the present meeting are being ssued, it having been determined to hold it in Montroal.

To show the standing of the society we may mention that the Hon. Geo. B. Loring, Commissioner of Agriculture, Washington, is the President, the other officers are gentlemen of high position and repute, and the present meeting is under the patronage of his Honor Lieutenant Governor Robitaille.

It is expected that interesting and instructive papers will be read, and that there will be discussion of subjects connected with the objects of the Congress, which are chiefly the conservation and perpetuation of existing forests, the replact us by now plantations those that have been and are being destroyed, and the clothing of our prairie regions with a due proportion of trees.

Though the lumbermen from the very nature of their business are great destroyers of our forests, there is perhaps no class that is more impressed with the necessity for steps being taken to remedy the rapid destruction that is now taking place, or is more anxious to see improvements made in our present regulations in regard to our wild lands. The general public too is being aroused to the necessity of a change in this respect, as is evidenced by the greater attention paid to it by the press of both ountries.

We hope that the Congress at Montreal will be well attended, and that its deliberations will be productive of much good.

TREE PLANTING.

The Ottawa Citizen says :- The comfort and eauty of trees in the streets of a city will be fully appreciated by our citizens at the present time, as they go up Daly street and other public thoroughfares, where there is a wealth of foliage to screen one from the hot sun of summer days. No feature of a city is more attractive than a sufficiency of trees, and we hope to see the taste encouraged far and wide in Canada until we can compare favourably in this respect with our American neighbours. Anyone who has visited any charming American city must have come back with pleasant reminiscenses of their embowered streets. The subject is deserving of agition, and we are therefore glad to notice that Mr. J G. Bourinet will contribute a paper on Tree Planting in Canadian Cities and Towns." to the meeting of the American Forestry Congress, which is to be held at Montreal during the latter part of August. The President is the Hon. G. B. Loring, Commissioner of Agriculture at Washington; the Canadian Vice-President is Mr. Jas. Little, of Montreal. At the spring session held at Cincinnati, valuable papers was read by many prominent public men and scientists, among others by the Hon. Horatio Seymour, of the State of New York. The approaching meeting promises to be equally interesting and profitable. The objects of the Congress are deserving of every encouragement. The rapid destruction of the forests in America by commercial enterprise, but more especially by the agency of fire, renders it necessary to look to the future and take material measures to keep up the supply. Anyone who has visited the timber districts of the Ottawa and its tributary rivers will remember the dreary and pitiable spectacle which constantly presents itself of blackened stumps and tall gaunt remains of what once comprised a noble pine forest. It is not the lumberman after all that is playing and havoc with the timber of America, it is his intorest to preserve the young trees and keep the them in every meht."

fire field away from his limit. It is the careless settler, or the fisherman, or the sportsman, who is the dangerous enemy of the woods of this continent. Another subject well worthy of the consideration of the Congress is the necessity of planting forests in our North-West. Already in the prairie lands of the Western States and Territories large plantations have been success fully set out, and the authorities offer valuable inducer cents to settlers to encourage them in the prosecution of so useful a branch of industry. Tree planting in Manitoba must sooner or later bo taken up seriously by the settler. Many of our hardiest and most valuable trees will no doubt succeed on the rich prairie lands of the province.

A BIG CUT.

The Northwestern Lumberman says :- There are no indications that the lumber trade that is assuming such proportions in northern Wisconsin and Minnosota will become less right away. The new Northwest promises to keep right along and induce settlers without number into its territory, and so long as that continues, so long the demand for lumber will keep up. The argument was used by many lumbermen in the fore part of the season, that so much lumber would go to the new country that the markes of the Mississippi valley would remain firm throughout the season. They said, "How can it be otherwise? There will be less lumber to distribute over the country adjacent to those markets." The result has proved that before a man bets his money he should look over the ground thoroughly. Last winter and spring a representative of the Lumberman travelled over great portions of the three great pine-producing states, and he announced that the mills everywhere were being put in a first-class shape—in short, in better shape than they were ever before - and to look out for an immense produc tion of lumber the present season. It was no prediction but a plain statement of facts, and a statement that some have profited by. The stock on hand in the spring was unusually small, yet to-day there is more lumber on hand than was ever known at this time of year before. The mills, with their increased capacity, have been driven for all they were worth, and have turned out lumber almost without end. Should they keep up this gait until the close of the season, with no material increase in the demand for lumber, the country will be well prepared to stand a poor logging season for 1882-83.

The Soft Maple.

In a recent number of your paper is a notice of seed of this species, Acer dary carpuna, being sent from Hamilton, Ont., to Manitoba, and calculations are based thereon as to a future grove in that far-off land. Well, the tree is hardy enough, but the seed is one of the most impatient; it must not become dry or it will not vegetate, hence the difficulty in transportation. The seeds of this species, like those of the Red Maple, are almost sprouting plants when they part from the mother tree, and need to be plant-The close relationship or analogy ed at once. between the seed and the bud, pointed out by Dr. Harvey, is no where better shown, and it is worthy of observation.-J. A. Warder.

Saw-Dust.

This material is used for bedding in the stables of all our cities, and has quite taken the place of straw, which is reserved for feeding and other purposes in the arts. The refuse from our mills, planing machines and turning shops is eagerly sought and purchased for stable use, nor does there seem to be any prejudice against these materials. The waste of such matter in the streams is very injurious to the fish, and should be forbidden by statute. -J. A. Warder.

Kind to the Trees.

Before the removal of the old town of Cullen, a good many trees were planted in the peoples gardens. This was sometimes resented, but not openly. One day the forester called around to see how they were all thriving. The trees all looked well except the one man's garden. He was asked how his trees were not thriving like the rest. He replied: "I canna understan' it, for I have been very kind to them, and taken

Trade with Australia.

The Montreal correspondent of the Mail writing on July 24th says :- Mr. G. W. Sharp, of Sharp & Sons, Lumber Merchants, Melburne, Australia, is in town. Hithert they have imported from the United States and from Canada indirectly, inasmuch as New England lumber merchants purchase Canadian lumber to reseil in the Australian markets. They were not satisfied, and the object of Mr. Sharp's visit is to establish a direct trade if possible. The Hon. Mr. Skead has shown all that is to be seen in his locality, and Messrs Gilmour, Eddy, and other lumber kings of the Ottawa have done likewise. Mr. Sharp states he was greaty pleased with all he saw, and he was most unfavourably impressed with what he saw of the United States trade. He has already made ar rangements for direct business being done in number, as also in other staples, particularly in dried fish and petroleum, which are now almost entirely supplied by the United States in very large quantities. Petroleum could be very pro fitably shipped to a very large extent.

A Year's Tree Planting.

Those who regard with dismay the cutting down of trees, and believe that the area of woodland in Britain is gradually disappearing, may take comfort from some of the figures stat ed in the return as to the prices for British tim her realized Juring the season 18°1 °2 From those figures it will be seen that throughout England, Scotland, Ireland, and Wales, there were planted on various estates, during the period under review, no less than 3,156,826 trees Of these, 2,175,826 were planted in Scotland, 646,200 in England, 294,800 in Ireland, and 40, 000 in Wales. It is, of course, not easy to get absolutely complete returns, but those we give are well within the mark, and prove that there is at least some set off against tree felling and the gradual increase of bricks and mortar in these islands.

ABOUT A STUMP.-Alex Bulley and Joseph Gamanchee own land near Anoka, Minn., which lies along the Missisippi river. On this land, at the water's edge, is a stump. The Rum River Boom Company tied to this stump a raft, con taining 300,000 feet of legs. Prompted by some meanness, the owner of the land cut the raft loose, and let it go wild down stream. The company sued for damages, and the plaintiff's attorney held that, inasmuch as the stump belonged to the defendant, they had a right to cut the raft loose, and moved the dismissal of the case. The court failed to see the metter in that light, and the defendants were held to the court above in their own recognizances. Northwestern Lumberman.

C. Britton, Lindsay, Ont., writes:—"I have much pleasure in recommending Baxter's Mandrake Bitters in all cases of Jaundice, Biliousness, Sich Headache and Liver Complaint, for they have given universal satisfaction, and I have sold more of them the past season than any other one patent medicine."

AMERICAN FORESTRY CONGRESS.

MONTREAL MEETINGS. AUGUST 21st and 22nd, 1882.

PATRON:

HIS HONOR LT. GOV. ROBITAILLE.

All interested in the subject of Forestry are invited to attend the Meetings and participate in the proceedings.

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combines, at a moderate price, 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 lover, 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 \$100. Send for circulars to

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CEDAR PAVEMENTS.

Says the Northwestern Lumberman :- Codar parements seem to grow in popularity, an are being adopted in many cities where they have been heretofore unused, and yet they are not al together in favor. The following remarks are made concerning wood pavements in London:

"The character of the wooden pavements may be known by the occupants of carriages in driving over them. Where the blocks are laid upon sand and boards, the vibrating and drumming effects on nerves and ears are most distressing. When laid with open joints the sur Inco becomes rapidly worn and uneven; and when laid upon an imperfectly formed or weak foundation, the surface also becomes uneven, al. ternating hills and holes, retaining dirt and wet, and so tending more and more to the destruction of the road. Blocks of wood unexceptional in character, form and dimensions of material, Inid hard on an exceptionally good coment con crete foundation, close-jointed, but without the felt bedding and jointing, have a disagreeable jarring effect, though in a less degree than the examples previously described. Some of the wood-paving companies must have been very stupid, and also very difficult to teach, or they would have learned, by their failures, soone than they appear to have done, and we should not then have seen most important main thoroughfares blocked for weeks at a time by the pulling up of the entire wood construction to begin again as from the beginning, and this process more than once over."

In response to a question raised at Toronto, as to the relative value of old and young cedar for street paving blocks, a lumberman addres sed the following to the Globe.

"If you will kindly grant me a little more latitude I would like to make a few observations with respect to your views expressed as to the merits of old codar es. young codar for roadways. If I am right, I take it that you assume that the young codar is closer grained than the older wood, and therefore calculated to wear longer, and may therefore make the best roadway. If your theory is correct, then those whose duty it was to decide as to the most suit' able blocks for our roadway are still wrong, in namuch as the older cedar would not wear even ly with the saplings, and therefore the pave ment would soon present the same aspect a that on King street; namely, full of holes and ruts; and if my theory is correct—that the sap lings will decay before the older wood - then they are equally at fault, as the decay will undoubtedly commence at the point where the block comes into contact with the sand used in the construction of the road bed. Any one hav ing had experience with codar posts knows quite well how quickly destructive sand is to cedar, and it requires but little time to determine that where small cedar, composed of fully one third sap-wood, is firmly pressed down into sharp sand, and assisted by moisture, the process of decay will soon commonce, and then the surface of the roadway, under heavy traffic, will be come uneven. I am willing to stake more than my reputation that the larger the block the longer the life of the roadway, and it will amply repay our citizens to look well into this matter before committing themselves to large undertakings in this direction, and at all events, as you remark, experiments can be made which will be ultimately productive of good."

OUR FORESTS.

It is a pleasure to see that the long-continued and persistent efforts of our townsman, Mr. James Little, in the advocacy of using all possible means to preserve from waste, and use with economy the commercial woods of the country are at last bearing fruit. To his publications through the press, with regard to the timber resources both of Canada and the United States, and his forecasts of the time of its total exhaustion, under the reckless and wasteful process going on, is to be attributed the widespread interest now manifesting itself in both We find a National Forestry Assocountries. ciation, as the outcome of his oft-repeated warnings, has been inaugurated by our neighbours across the line, for the preservation of the forests and, as far as possible, keeping up the supply by tree planting. The first meeting of the association was recently held at Cincinnati, Ohio, A thousand of them will pay \$1,200 per year,

when its name was changed to the American Forestry Congress so as to include Canada in its organization and deliberations, and its next meeting was ordered to be held on the 21st and 22nd of August next, in this city. Several of the States have also founded separate organizations with the same object in view, and in addition to his having thus aroused general attention to the subject, it must be gratifying to Mr. Little to find that the lumber papers of the West, which all along ridiculed both editorially and in contributions his pretensions as a timber statistician, have at last been forced by the current of events to acknowledge the correctness of his warnings on the subject. In an editorial of last week's issue of the Bay City, Michigan, Lumberman's Gazette, one of the lead ing lumber papers of the Union, we notice the following highly complimentary remarks, admiting the superior judgment and the acknowledged leadership of Mr. Little in the present forestry movement. The editor says :

"Probably no name in the country is more familiar to those who are at all conversant or interested in the subject of forestry than is that of Mr. James Little, of Montreal, who has made the timber resources of this country almost a life study. For years his fluent pen has been sending forth constant warning against the wanton and unnecessary destruction of the timber resources of the country. As a timber statistician he probably stands to-day without a peer. At the opening of his crusade against the wood butchering," which his sound judgment and discornment discovered was becoming alarmingly prevalent, his cautionary signals,

sown broadcast, were viewed as wildly fallacious and were looked upon by many who had imbibed the impression that the timber supply was inexhaustible, as the effusions of a crank whose idiosyncracies had made him a monomaniae on the subject. But the future revealed the fact that his judgment was far in advance of public sentiment, and we are now brought face to face with the fact that the progressive steps of this same public schtiment have just at present advanced sufficiently to obtain faint glimpses in the book which had been continually open to his more advanced and mature judgment, and he is recognized to-day as an acknowledged leader in a movement which is destined to be come one of the most important to the country's interests."

The foregoing flattering testimonials of our townsman's discernment, ability and exertions in forestry matters by our Bay City contemporary is fully endorsed by us, and the editor of that valuable lumber periodical-his hitherto opponent in lumber statistics-does himself credit in thus openly giving currency to his own admission of error, a change of view on the subject in question, and honor to whom honor is

We have written on this subject frequently, and shall continue to do so until the public mind is fully awakened to its importance depletion of our forests by reckless lumbering and ruthless fires is one of the worst evils the country has been cursed with Chopping and burning have destroyed millions of our national wealth, with no return to anybody. For every tree that has been felled and utilized there have been half a dozen wasted. Let anyone go over a timber limit and he will see that we do not exaggerate.-Montreal Herald.

WEALTH IN WALNUT TREES.

Mr. C. B. Wilson, of Jacksonville, Ill., drave me out to his farm some time ago to see "These trees," He some black walnut trees. "were planted from the seed twenty year: ago. I saw them planted." I measured these trees and they were sixteen i ches through. They would saw into a timber a foot of clear black walnut boards, and then have the top, limbs and stump left. The stump itself would soll to-day for five dollars to be sawed into The boards would be worth \$30. "What could you sell those trees for to timber men as they stand?" I saked. "I could sell them for twenty-five dollars per tree, and ten years from now they will be worth \$50." From these facts I came to this conclusion :- A black walnut tree will pay \$1.25 per year for 20 years.

Now every Illinois farmer has had it in his power to make more money off a row of black walnut trees around his farm than he can make off his farm if sowed in wheat. How can he do it? This way: A farm of 160 acros would be 10,500 feet in circumference. Now plant walnut trees four foot apart all around it and you will have 2,625 trees, which will be worth \$25 apiece in 20 years. Again, a farmer can set all his sloughs, low places and all hog pastures into black walnuts. Two thousand handsome walnut trees growing on a farm would be worth \$50,000 in 20 years, and would not, interfere with the farm at all.

Orange raising in Florida.will not pay half so well as as black walnut raising in Illinois. "How should black walnut be planted?" asked Mr. Bates, a nurseryman at Whitehall, Ill. "The easiest way," he said, "is to strike the ground with a common hammer in the fall, make a round hole two inches deep and drop the walnut in. It will cover itself with leaves and dirt. The debris over the kernel will be so light that the sprout will have no trouble it finding its way out." "What would you do after they come up in the spring?" "I'd go around and put a shovelful of saw dust, tan-bark, grain chaff, or straw around each sprout. This will keep the roots damp and kill the grass or weeds around the roots. A boy could plant 1,000 trees in a day in this manner. I'd plant them twice as thick as I need them and thin them out. - Chicago Tribune.

Canadian and E. S. Dutles.

The Northwestern Lumberman says :- "Amoncan lumbermen who are seeking investiments in Canadian timber limits, located with special reference to bringing the logs to this country to be sawed, will do well to bear in mind the fact that the Canadian Government imposes an export duty of \$1 per thousand put upon all pine and spruce logs taken out of its domain, which is equivalent, of course, to an addition of that figure to the cost of stumpage. This fact does not seem to be very well or generally understood on this side of the line. As matters now stand, Canadian pine must pay a duty anyhow befere it can be used on American soil. If sawed in Canada, our protective tariff imposes a fine of \$2 per thousand upon the importer; or if brought in the log the other government gets \$1; the speculator taking either horn of the dilemma he may choose. There is no Canadian export duty on sawed lumber, and no American import duty on the logs.

THE Northwestern Lumberman says :- The "Lumber Line" of the Chicago, St. Paul, Minneapolis & Omaha railway is assuming vast proportions. The efficient manager of the line, Mr. R. T. Flournoy, of St. Paul, forwards to the Lumberman a detailed statement of the lum ber that will be shipped the present season, and it foots up in the aggregate 397,500,000 feet. Last year the Chicago, Burlington & Quincy road hauled 358,500,000 feet out of Chicago, and it is generally supposed that no other road carried as much, but evidently it will be obliged to hand over the biscuit to its contemporary.

THE TANITE CO.

The Jeffersonian, of Stroudsburg, Pa., says Some months ago the Tanite Company received an order from one of the foreign governments for a solid emery wheel 36 inches in diameter and 8 inches in thickness. A wheel of this size weighs about 800 lbs., and its price is \$500. A few weeks since the company received a cable order from their Liverpool House for a special machine on which to run this immense wheel. They are now constructing this machine, which is the largest they have yet built. It is from an entirely new design and will weigh when complete 2,200 pounds. When finished, illustrations of this machine will appear in some of the scientific Daners.

The Company received last week an addition al order from the same government for nearly \$3,000 worth of solid emery whoels. Notwith standing the recent enlargement of their works and increase of hands, they are kept busier tlan over.

BAFTS AT QUEBEC. .

The Quebec Chronicle has the following list f rafta arrived :-July 10- Lattimer & MacNamara, staves, Voodfield.

Flatt & Bradley, staves, Point-au-Pizeau.

A. McLoan, white and red pine, Dobell's (Sillery) cove.

Ross Bros., deals, New Liverpool cove.
Gordon & Co., board pine, New Liverpool

Flatt & Bradley, oak, elm, ash, etc., St. Michael's cov McLachlin Bros., white and red pine, Cap

Rougo July 11-Ferd. Fortier, deals, St. Appoli

D. & J. Maguiro, deals and boards, Cap

Rouge Collins Bay Rafting Co., pine, etc., New

QUEBEC CULLERS' OFFICE.

The following is a comparative statement of Timber, Masts, Bowsprits, Spars, Staves, &c., measured and culled to July 14:

	1880.	1881.	1882
Wanoy White Pine	776,681	512,633	593,161
White Pine1	,145,993	1,626,058	1,444,349
Red Pine	289,446	391,542	178,784
Oak	749,334	1,142,041	551,856
Elm	582,997	642,266	334,833
Ash	163,330	231,251	143,685
Basswood	96	3,009	256
Butternut	285	330	1,725
Tamarac	15,065	4,435	1,332
Birch and Maple	525,325	121,191	258,896
Masts	••••	••••	33 pcs
Spars			
Sid. Staves			202.3,2.16
W. I. Staves20	4.1.0.12	178.1.3.21	518.5.2.11
Brl. Staves	• • • •	• • • •	6.7.1.0
		_	

ALEXANDER FRASER, Deputy Supervisor.

Quobec, 14th July, 1882.

Liverpool.

A CORRESPONDENT of the Northwestern Lum berman, writing from St. Paul, Minn., says I see plenty of Chicago lumbor passing through here going in the direction of the great Northwest. Getchell, Armour & Co., of Chicago, are shipping heavily this way.

LIVERPOOL STOCKS.

We take from the Timber Traces Journal the following Comparative Table showing Stock of Timber and Deals in Liverpool on June 30th, 1881 and 1882, and also the Consumption for the month of June, 1881 and 1882 :-

	lock, June 30th. 1882.	Stock, June 3 0th. 1881.	Consumption for the month of June 1832.	for the month of June, 1881.
Quebco Square Pine	. 46,000 ft. . 112,000 ''	421,000 ft. 1 170,000 "	50,000 IL	153,000 It.
St. John Pinc	. 3.000 "	3,000 "	-	2,000 **
Other Ports Pine	. 22,000 **	33,000 "	3,000 "	9,000
Pitch Pine, hown	. 975,000 "	767,000 "	196,000 "	90,000 **
" sawn	. 617,000 "	471,000 "	169,000	105,000 "
" planks	. 100,000 "	85,000 "	23,000 "	43.000 **
Red Pine	. 9,000 "	39,000 "	5,000 "	z,000 ''
Dantzig, &c., Fir	. 71.000 "	224,060 44	42,000 "	72,000 **
Sweden and Norway Fir	. 4.000 "	9,000 "		
Oak, Canadian	. 162,000 "	331,000 "	52,000 "	44,000 "
" Planks	. 76,000 **	142,000 "	58,000 "	88,000 **
" Baltic	. 49,000 "	90,000 "	4,000 "	6,000 **
Elm	30,000 "	27,000 "	3,000 "	'
Λsh	5,000 "	8,000 "	4,000 "	2,000 ''
Birch	. 22,000 "	100,000 "	42,000 **	23,000 ''
Greenheart	. 54,000 "	48,000 "	20,000 "	8,000 **
East India Teak	. 83,000 "	8,000 "	13,000 "	
Quebce Pine Deals	. [4,111 8413.	6,980 stds.	1,801 stds.	1,423 stds
N. B. & N. S. Spruce Deals.	. 7,323 "	13,658 (* }	6,310 "	7,143 ''
Baltic Deals	. 1,601 '	4,341 "	719 "	689 "
" Boards	73 "	3,800 ''	51 "	100 "
" Flooring Boards	2,720 **	8,652 "	545 "	1,031 ''

Chips.

THE mills of Nachville, Tenn., will runduring the night, while the hot weather lasts.

OWENSBORO. Ky., has a curious freak of nature in the shape of a catalpa branch growing out of the side of a locust tree.

A BALE of 700,000 feet of black ash lumber was made at Rochester, N.Y., recently, at \$16 a thousand. Another sale was reported of 200, 000, at \$15.

THE Duluth Lake Superior News of July 13th says :- There are one hundred cars of lumber on the docks here awaiting shipment to Winnipeg, owing to the scarcity of cars.

An exchange says that forty thousand acres of timber land in the Duluth district, worth \$40 an acro, have been stolen from the Government by speculators at \$1.25 an acre.

THE Michigan Iron Works, at Cadillac Mich., is to construct one of its new style en gines and 50 logging cars for Nicholas, Church & Co., of Greenville, Mich. The contract smounts to \$7,000.

A SHIPMENT of lumber from Shreveport, La., was made lately to the state of Chihuahua, Mexico, 170 miles south of El Paso. The cars were loaded at the mill grounds, and were run directly to their destination—a fact worthy of notice in latter day American-Mexican pro-

THE Chicago Northwestern Lumberman says Charles Merrill, of Bay City, Mich., has been to the Spanish River district, Ont., for the purpose of locating a mill, which Foisom & Arnold, of Bay City, will build for him the coming fall. Mr. Merrill has recently purchased pine land on Spanish River.

AT Oswego, N.Y., E. H. Barnes, who manu factures box shooks, cuts up 13,000,000 or 14,000,000 feet every year in that line of manufacture. A. W. Wright, la manufacturer of sashes, doors and blinds, uses up from 2,000,000 to 3,-000,000 feet of lumber in his business, keeping

75 hands busy all the time.

THE Midland Republican says:—David Ross is superintending a run of 1,500,000 feet of logs for W. W. S. Sutherland, of East Saginaw. They are now passing Midland and make a continuous string in the river over 20 miles long. Mr. Ross also has charge of a run from the Chippewa and Pine river which started out last Friday.

THE ship Syren, which recently loaded deck plank and spars at Seattle, W.T., for Bath, Me., consigned to Goss & Sawyer, had 130 sticks on board. The ship could not stow as many spars as was expected, so the deck plank. some of which were of great length, were taken as small stowage. The Syren received 315,000 for the voyage.

THE jam in the St. Croix, Minn., is assuming formidable proportions, extending now to or above Marine. The logs are seemingly inextricably mixed and piled seven or eight feet Communication is kept up, howeverwith the up-river towns, the freight and passen gers being conveyed around the jam in wesons and carriages. It will probably be several weeks before the river is clear of logs.

THE Ottawa Citizen, of July 11th, says :will be upwards of four weeks before Hurdman's drive on the Pctewawa will be out of the river. Last Thursday evening the drives of Messra Perley & Pattre and Captain Young were at the last slide, Petewawa, and are out now. The last of Messrs. Perley & Pattee's will be out this week. The rafts of Messrs. Perley & Pattee and Young were ready for Quebec yes terday.

THE Quebec Chronicle, in an article on "The Future of Quebec," says :- The timber trade is no longer a staple industry of Quebec, nor are we building wooden vessels to sell in the British and other markets. The fact is, times have changed. The steamer and the ironclad have succeeded the old-fashioned square-rigged wooden-wall. With regard to timber, the trade has also changed materially. Dressed lumber is still sold, and there are shipments of it from this port, but the competition is so brisk, and the number of markets so many, that the profits have declined materially. Still, it is by no means yet a lost industry entirely.

WHEN the Sturgeon Bay, Wis., canal was dug, the greatest depth excavated was 45 feet. Down there a red codar was found and heisted out, and the stump of it now lies on the bank.

THE Liverpool correspondent of the Timber Trades Journal says the idea that the importstion of Quebec yellow pine will be comparatively small for this year, gains strength daily, looking at the high prices demanded there, and the un proved quality of much of the pitch pine now imported, will tend greatly to divert attention from the former wood to the latter, especially as there is so great a difference in the market

values.
THE Timber Trades Journal, of July 8th, says :- We notice that last year the Howling was a day later from Quebec than she was this season, but it is nevertheless a somewhat singu lar coincidence that her arrival should be so near to time two years in succession, and seems to imply that the spring fleet will not be so late as was expected. It is true last year the Progress had proviously arrived, but she anticipated the first-named ship by only a few hours.

THE business of building tenement houses in sections, ready for transportation and erection at the point of destination is on the increase, and proving emmently successful. A firm in Quebec has recently shipped in sections five hundred wooden houses to Panama, where they are to be erected and used by the contractors of the canal being constructed. The same firm has also manufactaned a number of houses for shipment to various points along the line of the Canada Pacific railroad.

A CORRESPONDENT of the Parry Sound North Star says. I was surprised to find that the "sills" or "stringers" being supplied for the new sidewalk on Seguin street were mostly hemlock timber. Now anyone who has had even a small experience with hemlock knows that it will not last in that position more than two or three years. Why not put in cedar and make a good job while they are about it? I am sure there is plenty of good cedar to be got. White pine itself would be far preferable to hemlock.

THE Emerson International says :- Fifteen miles east of the Red River at Emerson, the line of continuous forest is reached-woods of almost impenetrable thickness, comprising all the varieties of the Lake Superior region. West of the Red River to the Pembina Mountain the various streams which drain this region sus tain a fine growth of oak, poplar, elm, cottonwood and the ash-leaved maple, Southern Manitoba being much more heavily timbered than the central or northern portion. Timber culture on the prairie is already carried on to a considerable extent, and in a few years quite a large quantity will be raised on "Tree Claims."

A DESPATCH from Halifax, N. S., dated July 12, says that D. C. Connor, who for two years has been doing rather an extensive business at Kingston station, Kings County, as general merchant, hotel keeper and lumberman, has failed with estimated liabilities of about \$40,000. Connor has been for some years employed by a large Halifax firm in getting out logs for their mill at Bridgewater. About a week ago he received a cheque from the above firm for ten or twelve thousand dollars, with which to pay the men employed by him during the winter. He drew the money from the bank at Bridgewater, and instead of paying the men, drove to Anna polis, and, it is thought, left in the steamer for the United States. Several local mon lose

heavily.

THE Montreal correspondent of the Canadian Manufacturer, under date of July 5th, says :-Within the past ten days or so, three sailing vessels have left port with deals for West Hartlepool, England, one for London, and one for Cardiff. Two vessels have also left with cargoes of lumber for South America, Shipping culls are scarce, and sales are reported at \$14 in large lots, and at \$15 to \$16 for jobbing lots from yards. The sale of a lot of ash for the American market is reported at \$20, and sales of rod and white pine have taken place at \$20 to \$25, a lot of very choice bringing as high as \$30 per M. feet. There is still a good demand for white pine for Winnipeg, several car loads having been shipped to that city during the week. The yards are being filled up with new season's hard and soft lumber, and prices remain generally firm.



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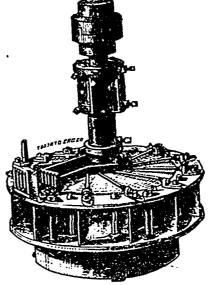
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BRASS OASTINGS.

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

Market Reports.

TORONTO.

From our own Correspondent.

JULY 24 .- The building trade here still con tinues excessively dull, and as a consequence the local sale for all kinds of building material is dull also, in fact one well stocked retail vard would easily meet all the demands of the retail trade at present. Of course it is usual to have July and August quiet months, but there are no present indications of anything much better for the remainder of the season; still, this will not materially effect the sum total of our timber sales at the close of the season, if our trade with the other side continues good, and those who are generally well informed on such matterafeel confident that our shipping trade for the re-mainder of the season will be brisk, with a very light stock left to carry over the coming winter. Sinc- writing you last considerable lumber of the lower grades has passed over our docks, and after a few weeks more age, to fit it for market, considerable of the higher grades will go forward, and vessel owners are anxiously waiting for cargoes, although the present rate of of freights does little more than pay expenses, and in some cases not that.

There are a few points which it would be well for our manufacturers to note if they wish to cultivate trade with the American markets, and to obtain good prices for their stocks, and that is to manufacture their lumber as carefully as the American mill men. 2nd, to sort it as carefully. 3rd, to save it free of staining. Quite a number of our large mills are behind in this respect, as well as the smaller ones. The point seemingly arrived at by many of them is to see how many logs they can put in at one end of the mill and send out of the other, and then to crown all, pile up mill culls with the higher grades, and in numerous cases so closely piled as to sap-stain and so make mill culls, of what otherwise would be good dressing or better. The writer could point out, if necessary, some notable exceptions in those particulars, but, I am sory to say that exceptions they are, why not then apply the remedy? Make less lumber and make it well, sort it carefully, so that a would be purchaser can see your stock as it should be seen, and lastly pile at once from the saws and pile openly and orderly each length on on its own pile.

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QUOTATIONS, FROM TARDS.

MONTREAL

From our own Correspondent.

JULY 24.-Trade has been fair since last report although not quite so rushing as in May and June, purchasers are ruly buying for immediate wants, which on the whole are pretty heavy as there are a large number of buildings going up both in the city and in the neighborhood There has also been a good demand for liardwood from the United States. Harvest prospects are good and if the grain is brought this way for shipment a good business in lumber is expected to be done on the wharves. A good deal of lumber is arriving and prices in Ottawa keep well up; all the muls there are running day and

which is selling very fast and stocks do not accumulate much. In Quebec the square timber trade is rather slack, as they have no vessels to take the timber away. The supply in England is rather small, but sufficient for present demands, which are likely to improve if Eastern matters were a little more settled. Prices in our local market are firm, and we note an advance on some. We quote ex yard as follows.

SHIPMENTS. The barque "Cupid" which sailed from this port on the 23rd of June with 541,213 feet of lumber for Monte Video, went ashore on the Manicoggan shoals, but after throwing her deck load overboard was got off, and has returned to Quebec to discharge and repair, after which she will again proceed on her voyage. The damage done to her hull was slight. The shipments from this port since the 8th inst., were as follows: -- To St. Johns, Newfoundland, 122,985 feet of lumber, and 212 M. drum staves; to St. John, N. B., 10,879 pcs deals; to Cardiff 13,384 pes deals; to Grimsby 6,724 pes deals, 105 standard deal ends; to London 11,730 pes deals. Tho shipments to the river Platte, since the date of last report, were by two vessels carrying 656,-473 feet of lumber. The total shipments to South America since the opening of navigation to date were 2.352.820 feet, against 2.817.263 feet for the same period of 1831 being a decrease of 474,443 feet. There are 5 or 6 vessels now loading here for South America. Freights are steady but unchanged.

LIVERPOOL MARKETS.

Business is quiet and prices have favoured buyers; 1st quality Quebec deals, (Pine) are quoted £19 @ £20 10s. per standard; 2nd quality do, £13 10s. @ £14 10s : 3rd quality do, £9 10s. @ £9 15s.

CORDWOOD.

The market continues to be well supplied both by river and road, but the demand continues to be very slack, and at the present high prices it will likely be soon superceded by coal. The contract for the court house supply has not been given out yet. We advance the price of beech, other kinds of wood are unchanged. We quote ex cartage:-

Long Maple		700
Short "		6 50
Short "		G 00
Long Beech.		G 00
Short "		5 60
	4 500	

OTTAWA.

From our own Correspondent.

July 25.-The large trading in pine lumber now going on in the American markets will soon decrease the stocks on hand, and consequently our yards will have to be resorted to for a replenishment. Sales so far this season have not been as numerous as other years. Shipping continues somewhat levely, and last years orders are in most cases nearly fulfilled. American buyers are on the market; they have not done much, however. Quotations are about as follows:-

Pine, 1st quality, per 1000 feet ... \$ 35.00 to \$ 40.00 " 2nd " " " ... 20,00 to 20,00
" Milliculis " " ... 10,50 to 12,00
" Shipping " " ... 15,00 to 10,00
" Pickings " " ... 20,00 to 20,00 " Shipping " Pickings

Mr. John Macdonald the superintendent of the slides at the Chaudiere, who is so well known by the lumbermen of this district and elsewhere, has been superannuated by the Government. He has held the position for a great many years, and was a trustworthy and courtcous servant. When he first took office he wit. nessed and inspected the now rarely seen giants of the forest, rafts of 75 foot average. In this connection it has been remarked as an indication of the rapidly increasing scarcity of pine trees in the limits on the Upper Ottawa and its tributaries, of a size to make square timber, that with a few exceptions all the square tim-

erage 60 cubic feet per piece, a great falling off. It is more difficult, lumbermen say, to get a raft of timber 60 feet average to-day than it was a few years ago to get one of seventy or seventyfive.

Messrs Grant & Miller have a splendid raft running the slides at present; as have also Messrs. Perley & Partee, and Young & Bronson. Two rafts of Mr. Oliver Latour, are yet to come down. Four have already passed the slides.

The following rafts passed through the works mentioned during the week ending 22nd July

	•	•
/ CALUNET	BLIDAS.	
Rafts. Owners.	Cribs.	Pieces.
1 J U. B Latour	93	2,525
1 D. Moore	. 83	1,941
1 J. & B. Grier	80	1,850
I –	_	
3	250	0,392
PORTAGE D	PORT	
Rafts. Owners.		Cribs
		64
1 Perley & Pattee		142
1 Richard White	*****	, 120
-		· —
3		326
LEFT OTTAWA SIN	CK 18TH JULY.	'
		Peices.
	. 110 2,27	5 257
1 Win Mackey	122 3,27	
B. Caldwell & Son	102 2,68	1 135
	. 63 1,19	1 614
I Pavid Moore	. 81 97	7 1,900
<u>,</u>	479 0.497	3,071
•	•	
		R,R
		Ties
G. B Hall & Co , 2,609		- 1
W C Edwards & Co 1,163	• • • • • • • • • • • • • • • • • • • •	21.545
		21.545
Rathburn & Son	• • • •	,,
9.777		21,535
	Rafts. Owners. 1 J. J. B. Latour 1 D. Moore	1 J. G. B. Latour 93 1 D. Moore 83 1 J. & B. Grier 80 3 250 3 250 FORTAGE DU PORT Rafts. Outners. 1 Pericy & Pattee 80 1 Richard White 81 2 LEFT OTTAWA SINCE ISTH JLLY Rafts. Outners. Cribs. W. J. Win. Mackey 110 2,27 1 Win. Mackey 110 2,27 1 B. Calduell & Son 102 2,08 1 Oliver Latour 03 1,13 1 Pavid Moore 84 9 5 THROUGH GATINEAU BOOM SINCE ISTH JL Saw Sq. Fl. Outners. Sq. Fig. Outners. Sq. Fig. C. B. Hall & Co. 2,000 136 634 V C Edwards & Co. 1,63

ST. JOHN, N. B.

From our own Correspond tht.

JULY 22.—Owing to the low prices still ruling in Great Britain, our lumber market still remains dull, and deals that are arriving (that are not already contracted for) are selling slowly at about \$9.50 per M, being about \$1.00 less than they were one month ago.

Freights still remain firm at higher rates, but very few vessels have been chartered, owing to the great advance in grain freight in New York, which is drawing most of the available tonnage there

In the present position of the maket it is difficult to give reliable quotations of freight, but the rates talked of are as follows :-

VESSELS IN PORT THIS DATE. Belle O'Brien, 1,847, Liverpool, 52s, 6d. c. d. Arizona, 1,100, Cardiff, 55s. c. d. Clarence, 1,032, Bristol Channel, 55s. c.d. Lake Simcoe, 344, Troon, 57s. Gl. c. d. Belle, 480, Dundalk, 60s, c. d. Assyria, 728, Warrenpoint, 66s, 3d. c. d. Young Eagle, 534, Cork or Dublin, 63s. Arrus, 232, Wexford, Uts. Cd. c. d. Adria,, 194, Ballywain, 67s. 6d: c. d. Harold, 189, Ireland, 67s, 6d, c. d. Quaco, 186, do, 68s. 9d, c. d. Lord Derby (3) 1,132, United Kingdom, 55s. c. d. G. B. Donne, 911, Bordeaux, 58s. c. d. Gloire, 1,123, do, 55s. c. d. New York, 543, St. Nazaire, 56s. 3d. c. d. Lottle Stewart, 742, unchartered. Lepreaux, 719, do., do., Calliope, 1,202,

COMPARATIVE SHIPMENTS 1ST. JANUARY TO DATE. 1881. 1882. teals. Pine. Birch. S. ft. Tons. Tons. 5,703 763 2,306 M. S. ft. Tons 105,279 330 95,703

> VESSELS LOADING THIS DATE. 1881. Ships. Tons. 1882. Shipe, Tone. 23,600 14,131

CHICAGO.

JULY 22. - The Northwestern Lumberman says: -Notwithstanding the large amount of lumber. reported, the cargo market at Franklin street has had one offthe alimnost wooks of the season. The largest fleet of the week was 20 vessels on Monday, and while other days have shown 10 and 12, the rapidity with which they have been moved has left the docks bare, or nearly so, during the largest part of the time. The Monday fleet was all placed before noon, and the few cargoes on hand Tuesday morning were bought up so early that at nine o'clock no less than five tugs were at work taking out their

be interpreted as giving an index of the feeling on the part of the buyers, indicating, as it does, a readiness to take all desirable offerings at full quotations, and even a slight advance. Bears and bulls agree, for once, that while on ordinary offerings perhaps no actual advance is to be noted, desirable cargoes will be quoting at 25 to 50 conts higher, while a genera. - Triner feeling is more apparent than actual lyances in values.

CARGO QUOTATIONS.	
Short dimension, green	810 60@11 25
Dry	10 766311 60
Long dimension	12 00313 60
Boards and strips, No. 2 stock	
No. 1 stock	10 00@20 00
No. 1 log run, culls out	17 00(423 00
Standard shingles.	2 60@ 2 60
A	
Clear	
Lath	2 25

Receipts and stock on hand of lumber and shingles, , for the week ending July 20, as reported by the Lumberman's Exchange :-

reported by the Lumberm:	an's Exchar	ige:
		EIPTE.
	Lumber.	Shingles.
18\$2	63,360,000	15,842,000
881	60,632,000	32,526,000
FROM JANUARY 1 TO JU	LY 20 INCLUS	VR.
	RECEI	
	Lumber.	Shingles.
932	894,079,000	396,653,000
831	704,689,000	344,795,000
•		
Inc	129,490,000	61,793,000
LAKE RECEIPTS 7	O JULY 19.	
882	749,747,000	283 284 000
881	627,599,000	272,003,000
		212,000,000
Increase	.121,157,000	95,061,000
STOCK ON HAND	JULY 1.	
1882.	1831.	1880.
umber 443,039,546	352,391,329	347,346,419
hingles 223,839,500	142,726,000	144,095,000
ath 20,091,152	30,764,312	29,733,935
ickets 1,902,187	3,170,223	795,360
Cedar posts 154,143	120,559	111,655
104,143	,	111,000

BOSTON.

July 22 .- The Journal of Commerce says :-The demand is of a steady character, but at the moment the tendency of general prices is to casiness. The inquiry is mainly for the supply of pressing wants. Stocks in the hands of dealers are only moderate, and with the promise of a good fall demand, it looks as if values would oventually be well sustained.

CANADA PINE.

Selects, Dressed	000000
Shelving, Dressed, 1sts 40	00342 00
Dressed Shappers 27 Dressed Box 18	00@29 00
Dressed Box	00@20 00
Sheathing, 1st oublity	000045 60
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	• •

AEBA-IV. Quotations at the yards are as follows :-

TONAWANDA.

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Three uppe	r				 43	00/346	∞
Common			********		 13	00224	ö
Culls	••••			••••	 iż	00,7214	õ

	Modnoto cargo tore:-		
ł	Uppers	00/243	∞
ł	Common 18	00219	00
1	Colle	*****	~

OSWEGO, N.Y. | 35 00a440 00 | 17 00a25 07 | 17 00a25 00 |

LIVERPOOL.

The Timber Trades Journal says :- "The importations of spruce deals continue to come forward freely, but the market is not affected thereby, for there is evidently a disposition to store cargoes rather than submit to any further decline in prices, and, in point of fact, soveral cargoes are being stored on account of the shippers, those which are being sold as they arrive being principally cargoes brought by steamers under charter with a few days to unload and heavy demurrage.

LONDON.

The Timber Trades Journal says . - "Yellow pide is still moderately represented, though the expected arrivals from Quebec will probably add considerably to the stocks here. There is no telling, however, so much now goes overside that the mere fact of recording the arrival in dock of a cargo does not necessarily imply that it will add to the stocks, though it is not an unfair inference to draw. Of the Ocean King's cargo, we understand a very large proportion was delivered to lighters, and would not come into the dock stocks at all."

GLASCOW.

The Timber Trades Journal says :- " A pubhe sale of deals was held here on the 29th June, by Messrs. Allison, Cousland & Hamilton. The attendance was fair, and a good portion of a

fresh-imported cargo was disposed of.

At the close of the half-year stock-taking, chiefly by the largest consumers, is general, and on that account probable sales are not so heavy."

CARDIFF.

The London Trades Journal says -- "There is still a moderately rood demand for the Bristol Channel, and local merchants are seeking tonnage in average quantities from the Baltic and White Seas. Several cargos are also on the way from Canada, and some of them are overduc. Notwithstanding this, the trade for the heavy classes of timber remains not so bright as could be wished, an I local traders are not benefitted to the extent which a more active enquiry would ensure.

STOCKS ON THE CLYDE.

The following is a comparative statement of the leading wood goods on hand at Clyde Ports, 31st March and 30th June, 1882 :-

(Loads, 50 cab. ft	.)	
(, 22 0	30th June.	31st March.
Quebec Waner boardwood	7,007	11,844
" yellow pine timber	7.082	15.081
" red " "	3,682	5,311
" elm "	2,303	3,400
" cok "	2,772	4,330
" ash "	230	602
Birch, all sorts	114	3G4
Pensacola pitch pine henn	11.929	9,382
"	16.968	10,157
" " planks	1.102	1,659
Demerara greenheart	2,001	440
(St. Petersburg standards,	165 cub, ft	.)
Quebec yellow pine deals	1,796	2,400
" red " "	149	191
" spruce " "	349	167
Lower Port Spruce "	910	477
** pine **	234	475

EXPORTS FROM NEW YORK.

Statistics of exports of lumber from New York show that the quantity during the first six months of 1882, is less by 8,421,237 feet than during the same period of ISSI. Exports during June were as follows :-

To West Indies	2,689,024
Total	6,796,926 20,750,669
Total since January 1, 1882 Same time in 1881	33,553,595

TIMBER MOVEMENTS.

The Ottawa Citizen save :- During the week

Tho Ottawa Citizen	8 ays :-	—Durii	ig the	week
ending the 15th July	the u	idemie	ntioned	tim-
ber passed through the	e work	e state	d :	
THROUGH C	ALUMET	SLIDEN.		
Rafts. Owners.		C	ribs.	Pieces.
David Moore			78	1,920
l Grant & Miller		• • • • • •	66	1,616
l Perley & Pattee l T. & W. Murray	• • • • • • •	• • • • • • •	69	3,260
T. & W. Murray Young & Bronson	•••••	•••••	64	1,730
Richard White			120	3,000
 -			<u></u>	18.460
=			£39	13,460
LEFT WADAWASKA	BLIDES	OX 1011		
Owners.			20	sulogs.
Gilmour & Co J R Booth		••••		250 24 000
E. B Eddy				1,200
				- —
				25,450
THROUGH THE CHAT	A BLIDE	SINCE 1	STH JEL	Y
Rafts. Owners.				Cribs.
1 Wm. Mackey				
1 ls. Caldwell				116
2				225
LEFT OTTAWA :	user J	GTH ADL	٧.	220
Oicners.	Cribs.		eces	
	0	W P.	R P.	Mx'd
J. B. Dickinson .	139	1,769	936	
A. & P. White	80	1,790	221	
40	166	3,724	86	
Sereny & Fraser McCoshen & Fraser	81 127	1,450 3,163	020 QJ	
R. Campbell & Son	110	3,103	1.577	1,227
Costello Bros.	85	1,579		1,694
R. Campbell & Son	127	5.554	1,112	11
C & W Vohe	10S 80	2,287 1,412	122	809
R. & W. Conroy C. & W. Mohr R. & W. Conroy	87	1,779	317	300
Fraser & Curry B. Caldwell & Son	108	4,158	33	79
B. Caldwell & Son.	116	2,080	112	
Oliver Latour	94	1,151	614	
	1,679	30,313	6,119	3,81:
THROLOH GATINEAU	•	•		•
Owners.		zulogs.		t. Ties.
O. B. Hall & Co			••••	
W McClemont & Co		4 6 40		
Hamilton Bros	•••••	5,633		
J. McLaren & Co	• • • • • •	12,985		•••••
Glinour & Co	•••••	1,071		••••
Hamilton Bros. J. McLaren & Co. W. C. Edwards & Co. Glimour & Co. H. B. Rathburn & Son.		2,314		16,00
Hebron Harris		•••••		3,050
		40'845		19,063

THROUGH CARILLON DAM WERK ENDING 15TH JULY. Rafts. Owners.

Bar	meti	1.2.	ick	y	• • • •	•••	• • • •	•••	•••	•••	• •
Wn	r rai	iklin alg.	α 2	on.	• • • •	•••	••••	•••	•••	•••	• •
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RAFTS ARRIVED.

The Quebec Chronicle of July 21st gives the following lists of rafts &c., arrived:—
July 15.—Collins' Bay Co., oak, etc., sundry

D. D. Calvin & Co., oak, pine, etc., Gilmour's

Barnet & Mackay, red and white pine, Cape Fraser & McCoshen, red and white pine, St.

Lawrence Docks. D. D. Calvin & Co., oak, pine, &c., sundry

July 17 .- A. McLeau, pine, etc., Gilmour's

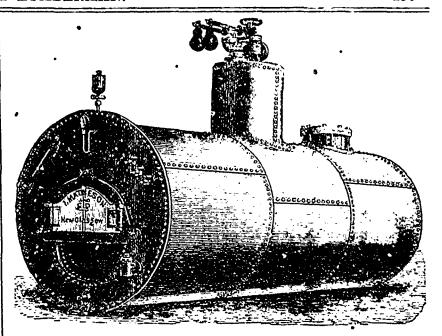
Indian cove.
July 20.—A. McLean, white pine, etc., In-Cove West

A. Fraser, white and red pine, St. Lawrence

Wm. Simpson, lathwood, Q. Warehouse Co. R. White, white pine, etc, Dalhousie cove. Cook Broz, wancy white pine, elm, etc., St. Michael's cove.

Bush Fires.

The Campbellford Herald says every inunicipality aught to adopt the action of the Brock township council, the members of which recently passed a by-law for regulating the burning of brush, stumps, etc. The enactment provides that no stump, wood, logs, brush, straw, shavings, or refuse, shall be set on fire by any person or persons in the open air within the municipali ty in or during the months of July and August in any year; nor at any other time or times during the year until after eight days' notice has been given to the owner or occupant of the adjoining property. Any person contravening the provisions of this by-law shall, in addition to any damage which may occur, be liable to a fine of not loss than \$2 or more than \$50 upon conviction before a Justice of the Peace.





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.

Rapid Building.

The rapid increase of population in Manitoba has stimulated the inventive geniuses of the Dominion to contrive houses that may be portable and quickly put up. L. Forest, of Belleville, Ont., has planned one that is in three foot sections, and dovetails together. A house, for a hotel or boarding establishment, has been put up at Winnipeg, over 100 feet long, two stories high, and devided into apartments sufficient to accommodate 250 guests. The foundation was laid on Tuesday and the house was completed Thursday afternoon following. A modern Rome could thus be built in a day, with lumber and hands enough. A company has been formed at Belleville to manufacture the sections for these ready-made houses.

The Emerson International of July 20th says: There are now twenty-three million feet of logs in Red River floating down to Winnipeg. Eight million feet of these logs are from the Otter Tail River (the source of Red River) and the balance from Red Lake River. The rear of the Otter Tail drive passed Farge some days age, and the other drive in charge of 120 men, is between Emerson and Grand Forks. Logs commenced passing here on Tuesday of last week, and men with pike poles are constantly employ ed at the bridge, guiding the logs between the piles of the temporary structure, so as to prevent a jam. The logs belong to Winnipeg mill MONTREAL

owners, who purchased them at \$17 per M feet. Carney & Watson, proprietors of the Emerson saw mill, endeavoured to secure some of them, but were unsuccessful.

BELTING.

Chipman, Renaud & Co.

LEATHER BELTING, FIRE ENGINE HOSE LACE LEATHER, &c.

1?4 & 126 Queen St.

PAPER PROM WOOD.

The British and Colonial Printer and Stationer gave, in a recent issue, a description of a new process for treating wood to obtain fibre suitable for papermaking, invented by Mr. Karl Daniel Ekman, of Sweden. The invention consists in boiling wood under a pressure with a solution containing sulphurous acid and magnesia in certain proportions, and under certain conditions; also in blowing off gas and steam during the process of boilin

The writer describes the process as applied to Swedish white fir of good quality and fine grain proviously freed from bark and knots, and cut into pieces of suitable form and size, and subse quently crushed between rollers so as as to render the wood easily permeable by the liquid solution in order to produce fibre of the best quality for papermaking; but the mode of pre-paration may be varied. White fir and trees of the same order are especially suitable, as they give long and strong fibre, very clean, and similar in its properties for papermaking to that of flax; and this kind of wood is comparatively cheap and abundant in many countries.

The raw material of wood is selected with more or less care, according to the purpose for which it is required, but when a superior quality of pulp has to be produced, all exceptionally resinous and hard pieces of wood, as well as those damaged by rot, are thrown out. The fibre resulting from the treatment of the wood is suitable for good ordinary printing paper, and may be made suitable for superior papers by means of treatment with bleaching powder. The resulting fibre may be suitable for coarser kinds of paper, such as millboards, papier mache, and similar materials. The invention can be easily applied to other kinds of wood besides the white fir.

GUMPTION.

Mr. Edward Atkinson, of Boston, recently addressed the members of the Golden Branch Society, of Phillips Exeter Academy, upon "What Advantage Does an American Boy Possess?" Mr. Atkinson urged that the young who are soon to become the workers and controllers in the business of life should be careful not to become one sided, and not to lose the "gumptien" which every Yankee boy ought to possess, and which does not form a part of the curriculum of the school or college, but is developed or lost in that part of the process of education which is outside the books and independent of the teacher. Gumption is that power of applying the work of the hand and the brain together under the quick application of the will, which makes a boy or man ready for any emergency, and enables him to decide at a glance, or with a single thought, the right way of doing something. In the old time, although the organization of the schools was not as perfect as it is to-day, and although the teachers were perhaps not as competent as those of modern time, while the variety of instruction was far less, there was a no less number of able and capable men among the graduates of schools and colleges in proportion to the whole number of pupils than there is to day The necessity which was imposed on the rich and poor alike to do some part of the work of life with their own hands, while they were attempting to develop their mental powers, worked in the direction of that resdiness and versatility which we call gump-It is obvious to men who have been engaged from very early years in the active work of life, and have been charged with the duty of selecting men to fill important places, that the number of school or college graduates who have been adequately prepared to apply their instruction to immediate use constitutes a mainfully small proportion of the whole number. It may be admitted that the only true result of school and college training is to enable a young man to know when and how to begin the real education which must form part of his life and which will not end except with life, but it ought not to happen that the method of preparation is so ill-advised that it disqualifies the graduate in a measure for the work he must do. Mr. Atkinson advocated for boys and young men in school and college an organized system of sports as a means of developing manual dexterity, urging the development of hand and brain together. His address throughout was an argument in

favor of students endeavoring to acquire not only that knowledge that will enable them to design, but the gumption that facilitates the ready application of knowledge to the execution of design in whatever work may demand their attention and effort.

TREE BURIAL IN MEW ZEALAND.

The recent fall of an enormous puketsa tree near Opotiki, New Zealand, disclosed the fact that the hollow interior from the roots to the ground, had been filled with human bodies. A confused heap of human skeletons burst out of the butt of the tree when it fell. A local paper says. "A more extraordinary sight than this monarch of the forest lying prone and discharging a perfect hecatomb of human skeletons can scarcely be conceived. Some are nearly perfect, while others are mixed up in a chaotic mass of heads, hands, feet and arms, indiscriminately. All the Maoris here seem to have been quite unaware of this natural charnel house, and declare that it must have happened long before their or their father's time. Indeed, the appearance of the tree fully justified the supposition that it must have been some hundreds of years since this novel family vault was filled with its ghastly occupants."

LUMBER FOR EMIGRANTS.

The Mississippi Valley Lumberman, of Minneapolis, says of the immense influx of emigrants now in progress:-The tide of European emigration which is pouring into this country this spring far exceeds anything which has ever occurred in our history. Northorn Europe furnishes the bulk of these new comers, and as emigration preserves its latitude, the northwest is receiving the lion's share of these people who are to help to develop the resources of this new world. Minnesota, Dakota and Manitoba will catch more than any other three states. This is especially important to the lumbermen of this country. Every family of emigrants coming in means more lumber to build houses, barns, fences, etc., to be sawed. This marvelous growth in population must be met by an equal enlargement of the lumber manufacturing. The chief difficulty now seems to be in finding means to get the lumber carried to these

A healthy man never thinks 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 digestive apparatus and the liver to properly perform 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.

EARS FOR THE MILLION

Foo Choo's Balsam of Shark's Oil Positively Restores the Hearing, and is the only Absolute Cure for Deafness Lnown.

only Absolute Cure for Deafness Lnown.

This Oil is abstracted from peculiar species of small White Shark, caught in the Yellow Sea, known as Carchardone Roovierin. Every Chinese fisherman knows it. Its virtues as a restorative of hearing were discovered by a lluddhist l'riest about the year 1410 its cures were so numerous and many so seemingly mirractilous, that the remedy was officially preclaimed over the entir Empire. Its use hecame so universal that for over 300 years no Denfness has Existed among the Chinese People. Sent, charges prepaid, to any address at \$1.00 a bottle.

Hear What the Deaf say!

It has performed a miracle in my case.

I have no unearthly noises in my head and near It has no unearthly noises in my near auditude better.

I have been greatly benefited.

My deafness helped a great deal think another bottle will cure me.

"Its virtues are unquestionable and its curative character absolute, as the writer can personally testiff, both from experience and observation. Write at once to Hatlore & Jenne, 7 Dey Street, New York, enclosing \$1.00, and you will receive by return a remedy that will enable you to hear like any-body else, and whose curative effects will be permanded. You will never regret doing so."—Editor of Mercantile Review.

EM To avoid loss in the Mails, please send money by REGISTERED LETTER,

Only imported by HAYLOCK & JENNEY,

Only imported by HATLUCK & CO.)
(Late Harlock & CO.)
SOLE ADENTS FOR ARERICA. 7 Dey 21., New York.
Lil-1822-ly

Has Facilities

DOING as GOOD WORK

PROMPTLY As any Engraver in Canada

ESTIMATES' FURNISHED.

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.

Steam Packing of all kinds, Rubber and Linen Hose, Silk Bolting Cloth, Emery Wheels, Lacing Leather (Page's Genuine), Lard, Seal, Cylinder, Spindle, West Virginia and Wool Olls. Our Stock includes Mill Supplies and Rubber Goods of all kinds. Propositions furnished for any part of Canada.

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

MACHINE OILS, ETC.

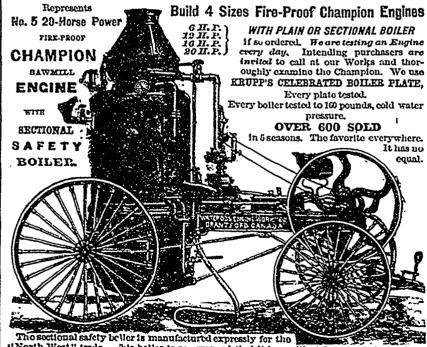
McCOLL BROS. & Co.

TORONTO,

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.



trade. This boller is so arranged that it is readily taken apart in section enabling purchasers & clean thoroughly every part of it and prevent burning out. Western prairies. Largely used by the Pacific Rallway Company and all the large Colonimition and Ranche Companies.

ADDRESS WATEROUS ENGINE WORKS CO., BRANTFORD, CANADA. Send for New Circular.

D. McLACHLAN & SONS, Manufacturers of all Descriptions of

STEAN BOILERS.

SHIPS' WATER-TANKS. Repairing Punctually Attended to.

NORTH SLIP, ST. JOHN, NEW BRUNSWICK.

ROBERT W. LOWE,

AUCTIONEER AND COMMISSION MERCHANT

81 SANDS BUILDING, PRINCE WILLIAM STREET.

Cash advanced on Goods put in for sale. ANNO Storago charged. All kinds of Merchandlso Bought and Sold. New and Second-hand I urniture always on hand. Agent for Hazelburst & Cos WINTHROP COOKING RANGES, WATERLOO WOOD STOVES, FRANKLIN, &c., &c., &c.

SAINT JOHN, NEW BRUNSWICK.

Steam Engines and Boilers,

AND ALL KINDS OF MACHINERY.

Locomotives, Stationery and Marine Engines and Boilers, Girders, Heaters, Radiators, and all kinds of Steam and Brass Pittings and Sheet Iron Work, and dealer in all classes of Railway, Steamboat and MILL SUPPLIES.

144 Upper Water Street, HALIFAX NS

ROBERTSON'S

LIGHTNING CANT-DOG

STEEL RING.

The Lightest, Cheapest and Most Durable Cant-Dog in the World.

PETER ROBERTSON,

Chaudiere



Farmers and Mechanics.

Provide yourselves with a bottle of PAIN-KILLER at this season of the year, when summer complaints are so prevalent; it is a prompt, safe, and sure cure. It may save you days of sickness, and you will find it is more valuable than gold. Be sure you buy the genuine PERRY DAVIS PAIN-KILLER, and take no other mixture.

Conoung, Ont., March 3, 1880.

I have been selling Perry Davis' Pain-Killer for the past six years, and have much pleasure in stating that its sale in that time has been larger than any other patent medicine that I have on my shelves, and in those years I have never heard a customer say aught but words of the highest praise in its favor. It is an article that seems to have combined in it all that goes to make a first-class family medicine, and as long as I have a house and store, Perry Davis Pain-Killer will be found in both. J. E. KENNEDY

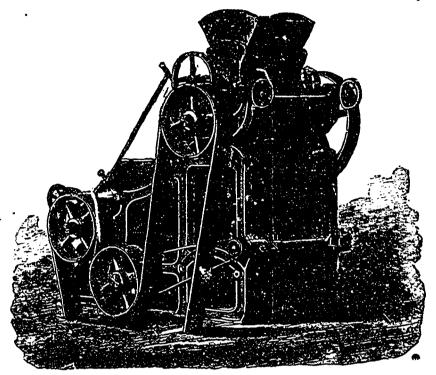
Beware of Counterfeits and Imitations.

Price 20c., 25c., and 50c. per bottle.

The series of th

For Flour Mills of 50 to 125 Barrels Capacity.

GRAY'S PATENT Gradual Reduction Machine



The above engraving shows the driving side of Machine.

This Machine is by far the Best and Simplest Combined ROLLER and SEPARATING Machine mado. It has two pairs of Corrugated Rolls and two Reciprocating Sieves.

The Grain passing down from the hopper and over the feed roll, passes through the first or upper pair of rolls and on to the first or upper sieve, where a complete separation of the product is made, the flour and middlings passing through the sleve and out from the Machine, and the large unreduced portion passing over the tail of the sieve and through the second or lower pair of rolls, when a second separation is made. Each Machine makes two reductions and two separations.

The Machine is perfectly adjustable, the same devices being used as on the simple roller machines. The same feed gate and roll is used, and the same adjustable and self-oiling boxes. The Machine is driven by a single belt. Both pairs of rolls can be spread simultaneously when feed is stopped. The Machine is NOISELESS and DUSTLESS.

These Machines are designed for use where economy in space is desirable, as they save the room required by two scalping reels and an elevator, thus affording to smaller mills the great advantages of the roller system at a comparatively slight cost. ASend for particulars.

MANUFACTURED EXOLUSIVELY BY

MILLER BROS. & MITCHELL,

Nos. 110, 112, 114 and 116 KING STREET

MONTREAL.

Sole Licensees for Dominion for Gray's Patent Noiseless Roller Mills and Gradual Reduction Machines.

Montion this Paper.

LOGGING IN THE NEVEDAS.

A correspondent of the North-western Lumberman says :- "A chute is laid from the river's brink up the steep mountain to the railroad, and while we are telling it, the monster logs are rushing, thundering, flying, leaping down the declivity. They come with the speed of a thun derbolt and something of its roar. A track of fire and smoke follows them-fire struck by their friction with the chutologs. They descend the 1,700 feet of the chute in 14 seconds. In doing so they drop 700 feet perpendicularly. They strike the deep water with a report that cen be heard a mile distant. Logs fixed from a cannon could scarcely have greater velocity than they have at the foot of the chute. The average velocity is overt 100 feet in a second throughout the entire distance, and at the instant they leap from the mouth their speed must be fully 200 foot per second. A sugar-pine log sometimes weighs 10 tons. What a missile! How the water is dashed into the air! Like a grand plume of diamonds and rainbows the feathory spray is hurled to the height of a hundred feet. It forms the grandest fountain over be-How the waters foam and seethe and lash against the shoru! One log, having spent its force by its mad plunge into the deep waters, has floated so as to be at right angles with the path of the descending monsters. The mouth of the chute is perhaps fifteen feet above the surface of the water. A huge log, hurled from the chute, cleaves the air and alights on a floating You know how a bullet glances, but can log. You know how a bullet glances, but can you imagine how a saw-log glances? The find strikes with a heavy shock, but glides quickly past for a short instant; then a crash like the reverberation of artillery, the falling log springs vortically into the air, and with a curve like a mocket falls into the water, a long distance from the log it struck."

A KEE, piece 156 feet in length, and 30 inches in dia.neter at the top end was recently got out at Scattle, W. T. Eighteen exen hauled it on a skidded road.

TREE PLANTATIONS.

Mr. F. P. Beck, Bethany, N. Y., afforded an example of what can be done in forest culture. He began a plantation of trees on rather poor soil, which consists of a clay lear resting on shelf-rock near the surface. Ho grew European larches and Scotch pines. At two years from the seed, these young larch and pine trees were transplanted to places where they are to remain four feet apart each way, an acre thus containing 2.640. Those that have been set six years are now ten or twelve feet high, vigorous in growth and branching so extensively as to make it difficult for one to pass through the woods. These are from two to three inches in diameter at the ground. Those set eight years ago are from eighteen to twenty-four feet high and from four to six inches through. The pines are planted out sixteen feet each way. In a year or two Mr. Peck will begin to thin out the larches, using them for poles and small fence posts. The land is thought to pay as well in these trees as if planted to ordinary farm crops, while the advantages they afford in protection to other crops and to the farm buildings is inestimable. Mr. Peck believes if 20 per cent of our older and rough cleared land was planted to forest trees, it would render the remaining 80 per cent. more productive and valuable than the whole now is.

A FIVE-POOT saw, running 700 revolutions a minute, burst in Salling, Hanson & Co's, mill at Grayling, recently, with terrific force. One piece went directly upward through the roof, cutting a rafter completely off, and anothor went through the end of the mill about 40 feet distant.

THE Evart Review says:—Mr. Snyder tells us that a company of men in Greenville have organized to build a narrow guage railroad from Muskegon river, between Crapo and Paris, to the pineries in Mecosta, Church, Moon, Crosby, Nichols and Palmer are in the scheme, and 70,000,000 feet of pine to cut, besides large quantities of hemlock, etc.

PARKER & EVANS

SOLE PROPRIETORS OF THE

FAMOUS INTERNATIONAL BOILER FLUID COMPOUND.

Patented 5th March, 1877.

This Compound will save its Cost many times in one year by saving fuel.

It eradicates scale, and when the Beller 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.

504 St. Paul Street, MONTREAL.

AMERICAN HEAVY

Oak Tanned Leather Belting

Rubber Belting, Rubber Packing, Rubber Hose, Linen Hose, And Cotton Hose.

A Full and Complete Stock always on hand.
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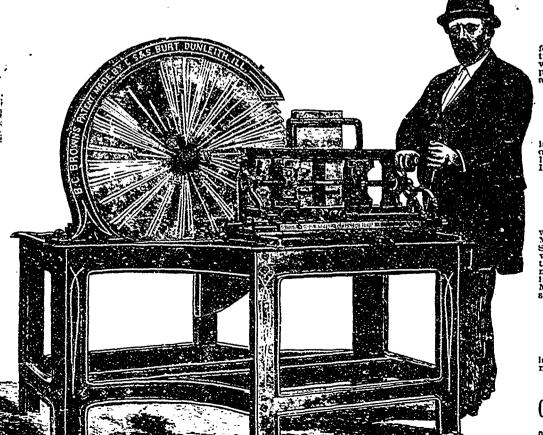
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is now the Best Feed where Steam is the motive power. It is easily operated, is simple, rapid, and seems never likely to wear out, sixteen 16 ft. boards, or eighteen 12 ft. boards, have been cu. by it in one minute. It is the established feed for steam mills; I make a specialty of its manufacture; will guarantee satisfaction.

Our Patent Twin or Span Circular,

with Steam Feed for Steam Mills, and Rope or Rack Fee I for Water Mills is fast coming into general estimation and is used to place of Gang Slabber in our best Canadian Mills. One of our Span Circulars which will slab logs 25 inches in diameter down to 7 and 8 inch stocks, will do the work of three slabbers, with an immense reduction in first cost, running expenses and labour. Two of these machines can be seen at work in Messer. Glimour & Co's Mill, Trenton, and Georgian Ray Lumber Co's Mill, Waubaushene and Port Severn. Zo'l am also introducing a new style of Mill Engine, real, substantial and simple, with Corliss Frame and Balanced Valve, all carefully designed and honestly made.

Covel's Automatic Saw Sharpener,

is now well-known and highly appreciated, when placed at work in the mili it sings out its own praise; I keep it constantly on hand, ready for immediate shipment.

Our Standard Circular & Gang Mills & Machinery,

are too well known to need any reference, any further than to say that I spare no pains or expense to have my work all first-class and give satisfaction, and as I make Heavy Saw Mill Machinery a specialty, any party wanting a First-class Mill will find it to their advantage to give mo a call.

WILLIAM HAMILTON, Peterborough Foundry and Machine Works. PETERBOROUGH, Ont.

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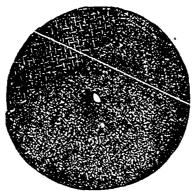
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EMERY and CORUNDUM WHEELS

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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 ROBERTSON & CO., TORONTO.

WE ALSO REFER TO

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Manufacturer of the Covell Saw Sharpeners.

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

EMERY WHEELS FOR SAW GUMMING!



Solid Emery Wheels are now almost in universal use for the purpose of guiletting and guinning 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 whoels ayear, costing \$3 to \$4 each, and when such small mills order single Emery Wheels from the factory, the express charges often equal the cost of the wheel. There was a time when the quality of Emery Wheels was so uncertain, and the demand so fickle, that storekeepers could not afford to carry them in stock. Now, however, Saw Gumming Wheels have become as staple an article as files, and every dealer in saws, Hardware and Mill Supplies can afford to carry a few dezen 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 seven-eights of all in use are beyeled.

Tne principal sizes are:

$$\left\{ \begin{array}{c}
 8x_{1}^{1} \\
 8x_{2}^{1} \\
 8x_{3}^{2}
 \right\} \left\{ \begin{array}{c}
 10x_{1}^{1} \\
 10x_{3}^{1} \\
 10x_{3}^{1}
 \right\} \left\{ \begin{array}{c}
 12x_{1}^{1} \\
 12x_{3}^{1} \\$$

Probably more wheels 12x1, 12x2 and 12x1 are used than all the other sizes together. Saw Gumming Wheels are used, however, of all sizes up to 2xx12. The most frequent complaint is that Emery Wheels harden the saw so that a file won't touch it. The answer is that you don't want a file to touch it. An expert workman will shape and sharpen the teeth with an Emery Wheel, leaving the teeth case hardened, in which condition the saw will cut about 331 per cent, more lumber than a soft saw will. Those who want to use the file, however, have only to touch the saw lightly a second time (after going all over it once), and this second touch will cut through the case-hardened scale.

A QUESTION OF QUALITY.

Thirteen years of experience as makers of, dealers in, and actual users of Emery Wheels, have led us to a decided opinion as to what quality is the best. We prefer for almost every use an "Extra Soft" wheel like the "Pocone." 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 quantities, 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 quanty of wheel, let us know what it is, and we can send you a Tanite Wheel of similar quality. Our regular classification of Saw Gumming Wheels is as follows:

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

CLASS S. MEDIUM—SOFT.—The same as to coarseness and fineness as " Class 2," but a softer, and therefor from cutting wheel

OLASS "POCONO." EXTRA SOFT.—This Wheel we profer to all others. It is both finer to gmin 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 now to grind with a light touch, and who want a free cutting wheel that will not create much heat

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