## Technical and Bibliographic Notes / Notes techniques et bibliographiques

L'Institut a microfilmé le meilleur exemplaire qu'il

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.							L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.									
1 1	d covers/ ure de couleu	ır									ed pages e couleu					
1 1	damaged/ :ure endomm:	agée							1	_	amaged, ndomma					
1	restored and/o ure restaurée								•	•			laminate pelliculé			
1 1	tle missing/ de couverture	e manqı	ue					E	/ 1	_			ned or fo etées ou		i .	
1 1	d maps/ éographiques	en coul	leur								etached étachée:					
	d ink (i.e. oth e couleur (i.e.				e)			4			rough/ arence					
	d plates and/os et/ou illustr									•	of prin		/ pression	ı		
1 2 / 1	vith other ma ec d'autres de		ts						<b>/</b> 1		uous pag	-	n/			
along in	nding may ca terior margin re serrée peut	/						Includes index(es)/ Comprend un (des) index								
distorsi	on le long de l	la marge	e intérieure	•							n header e de l'en		=			
within to	he text. Whe nitted from fi	never political	ossible, the	ese have	?				1		age of is titre de		aison			
lors d'u mais, lo	it que certain ne restauratio rsque cela éta	n appar	aissent dai	ns le tex	cte,					_	n of issu e départ		ivraison			
pas été filmées.							Masthead/ Générique (périodiques) de la livraison									
Additional comments:/ Commentaires supplémentaires:																
	This item is filmed at the reduction ratio checked below/ Ce document est filmé au taux de réduction indiqué ci-dessous.															
10X	14>	<b>(</b>		18X	<u>1</u>	1		22X		<del></del>	20	5X	7 7	30	×	T
	2X		16X			20X				24X			28X		1	32X



PUBLISHED }

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

SUBSCRIPTION \$2.00 PER ANNUM

VOL. 4.

### PETERBOROUGH, ONT., OCTOBER 1, 1884.

NO. 19.

#### FORESTRY IN CANADA.

Among the papers read at the meeting in Montreal of the British Association for the Advancement of Science was one by Mr. A. T. Drummond, on "The Distribution of Canadian Forest Trees in its relation to climate and and other causes," in which it was pointed out that there are ninety-five species of forest trees in Canada. The Province of Ontario has 65 species of which 61 are found in the districts bordering Lake Eric. Of these 65 species 52 extend eastward to the Province of Quebec, 35 are found on the easterly and westerly sides of Lake Superior, whilst only 14 range westerly into the prairie country at and beyond the Red River. Again, in British Columbia there are 35 species, of which only seven extend eastward beyond the influence of the Rocky Mountains, and with one exception those seven are well distributed over the whole Dominion. Only three of our Canadian trees are identical with European species, the chestnut, white birch and yow. Canada may be divided into four great forest areas or zones, which may for con enience be termed the zones of the (1) Douglas fir, occupy ing Central and Southern British Columbia. (2) Poplars, covering the whole country from the most northern limit of the growth of trees southward, east of the Rocky Mountains, to the South Saskatchewan, Qu'Appelle and Winnipeg rivers, Lake Nepigon and Anticosti, in the Gulf of St. Lawrence. (3) White and red pine, extending from Lake of the Woods and Lake Nepigon to Anticosti, thence to the Georgian Bay, Lower Ottawa River and Nova Scotia. (4) Beech and maple, occupying those parts of Ontario and Quebec lying south of the zone of the pines. Along the shores of Lake Eric is what might be almost regarded a a fifth zone, very circumscribed in area, but having within it soveral outliers of the forests of the Middle The frequent peculiarities in range of for w, trees in Canada are due to physical conditions and differences in climate, resulting from differences in these conditions. The northern half of the American continent consists on the one side, of enormous stretches of continuous land and has, on the other in its midst, immense areas of water and widely and deeply indented shores-Labrador and the great section of country lying between Hudson Bay and the great lakes and the Gulf of St. Lawrence being virtually one immense peninsula. The double effect of a northern latitude, and the prosence of these great bodies of water is very marked in the lower general temperature, the shorter summers and more severe winters. These influences check the northern range of forest trees beyond the outlet of Lake Superior, and, with the aid of the branch Labrador current, prevent their extension down the St. Lawrence below Quebec. The great chain of

lakes from Superior to Ontario have not only

width, create a harrier to the northward extension into Canada of many United States forest trees. A remarkable feature in forest distribution is the fact that immediately west of Lake Superior many of the most important trees, as white pine, basswood, red oak and sugar maple, are no longer found. The prairie appears to form a barrier to westward distribution. The prairies were probably at one time covered with trees which have been destroyed by fires. The effect of this has been to create a less rainfall, a quicker drainage from the soil, a dry atmos phere and constant exposure to high prairie winds, all of which appear. be inimical to many forest trees. British Commbia has a distinctive forest area of its own. The trees They are similar to those of Oregon and Washington, and the direction of the mountain ranges and similar moist climate has favored this. The white pine, yellow pine, and Douglas suruce are more or less known to commerce, but there are several other British Columbia trees which are as yet comparatively antried. In the near future the lumber trade there is likely to attain large proportions. Referring to the North West it was pointed out that the future cities and towns could exist only where abundant water was present and that thus the supply of water in the rivers was of vast importance. To preserve a constant and uniform supply it was absolutely necessary to have the source of each important stream examined. If forests already exist there, then reserve a large area of them from public sale, if they do not, then the Government should at once promote the planting of forests or institution of national parks at such points. There are numerous rivers requiring such attention.

The above paper was followed by one by Mr. G. P. Hughes on "Forests, their value meteorologically and as national reserves." The author, taking a retrospect of the primoval forest, and regarding it geologically, pointed out that civilization and the arts must over remain indebted to the imbedded for ests of proglacial times. He referred to some of the instances we have in Great Britain and America of forests perpendicularly fossilized by subsidence into tranquil water, thereby furnishing a means by which the age of the formation may be calculated, and the structure of tree be observed. He referred to the dependence of man in all ages of his history upon the forest for material for houses, ships, implements and the production of heat. Calling attention to the denudation of most eastern countries once famous for civilization and the arts, and to the hurtful destruction of valuable timber even in one day. The result has been greater climatic changes, and in the tropics a barren deadness, where once their effect on temperature, but, by their great | great states held sway. He advocated planting

the creek and reservoir margins in Northern Australia and tropical India, and quoted authority to back out his own openion that among improvements to property planting offers the most certain returns in material, shelter and ornament. He gave a sketch of a course of study for a school of forestry and advocated state and a privilege to such institutions in order that our national forests may be supplied with scientific heads of departments. He made an appeal to British America to set aside forest reserves adequate for all future requirements.

The President announced that he had received a paper from Dr. Franklin A. Houghton on The Future Policy of the Forest Management are largely of the pine family, and, with seven of the United States," the general conclusions exceptions, do not range east of the Rocky of which were that the people needed instruction and that colleges should take the matter up, as well as schools, for which there should be teachers capable of giving practical instruction on the subject.

> After a brief discussion Sir Richard Temple recommended Canadian foresters to visit the Norwegian forests.

#### PRACTICAL FORESTRY.

To the Editor of the Canada Lumberman

DEAR SIR,-I have contracted for 5,000 black walnut trees, four feet high, to come from the Western States. The cost will, laid down free in Oshawa, including distribution, freight, duty, etc., not exceed twenty cents a ch coming in car loads. I bought them for the purpose of inducing the residents of Pickering, East and West Whithy, Reach and Darlington, including the towns and villages, to plant them in and about their homes. I will give them to anyone who desires them (not exceeding ten) at actual cost. They are a very rapid grower; make a beautiful shade tree, bear a delicious nut and are very valuable for lumber whenever it might be desirable to cut them down, I have thought that five or six of them planted in a circle, say 75 feet in diameter and one in the centre, would make a very beautiful and desirable group of trees for shade for cattle. They will also add to the beauty and comfort of homes when planted in and about the houses and barns; but, I would suggest to those who plant them that they trim them when very young, by degrees, so as to leave the main trunk 18 or 20 feet high before any limbs are allowed to branch out. This will add to their value in the future for lumber. Three trees planted near Hamilton, 30 years ago, are said to be now worth \$100 each to cut down for lumber.

I will file any applications which are sent to me for them in the order in which they are recoived and fill them in the same order. They will come early in the spring, but I would like to know, at as early a date as possible, who would like them. I have taken the trouble to get these trees solely for the purcose of adding ! to the beauty and comfort of the homes in this section. I am sure any one who plants them will feel repaid within a very few years and that his children and children's children will thank him for it. One planted in my garden bore nuts the third year after planting.

I am, dear sir, yours very truly,

F. W. GLEN.

#### WORTH SERING.

The following letter is from the Hamilton Spectator:

DEAR SPEC., Taking advantage of the last warm spell, and combining business with pleas ure, I started from Hamilton by steamer South ern Belle for Toronto, where taking the steamer Passport I proceeded to Montreal. Staying over night at that city I took the 8.45 a. m. train of the Canada Atlantic Railway and arrived at Casselman, a distance of 87 miles from Montreal at 11.20. A very fine country is passed through and fairly timbered. At Casselman I was met by Mr. Mackay, the courtequa representative of Messra. Flatt & Bradley, who showed me over the mill, which is well worth eeing. The mill stands alongside the Nation River, is substantially built and with machinery of the lastest improvement, and everything about it so perfect that one is astonished at the rapidity with which the logs are handled. Stretching away to the south and to the east are the timber limits belonging to the firm, and here you see the virgin forest to perfection as not a stick has been culled from the land. Stately pines of a growth to gladden the heart of a lumberman, magnificent caks and other trees meet your view in all directions; and as you return your steps to the station from this almost primeval spot, now abounding with game, you say to yourself, in a few years all this will be smiling farms, and as you stop into the cars and are borne along you turn once me, to gaze at the mill, which stand a monu ment to the energy and enterprise of this well known firm. J. T. Routh.

#### Reducing Expansos.

A novel project is on foot among the owners of lumber vessels in the Chicago and Michigan trade to reduce expenses. Says the Chicago Inter-Ocean: "It is proposed to arrange with certain tugs in Chicago and at Muskegon for the towing of vessels all the way across the lake from port to port. Tows of three vessels each are to be made up. A Muskegon tug will bring a tow of loaded craft half way across the lake, where she will be met by a Chicago tug with three light vessels. The tugs will exchange tows and return to their home ports." By this arrangement schooners can compete with atoam barges, and the tugs, it is claimed, can also be sure of towing and can make some money out

#### BOARD OF TRADE RETURNS.

The following are the returns issued by the Board of Trade, for the month of Aug. 1884, and first eight months of the year:

MONTH ENDED SIRT	AUO, 1884.	
	Quantity.	Value.
Timber (Hewn).	Loads.	£.
Russia	24,717	45,005
Sweden and Norway		97,834
Germany		00,044
United States		50,304
British India		2,683
British North America		204,032
Other Countries		60,069
Total	223,807	680,821

Total 223,807	580,821
Timber (Saun or Split,	
Planed or Dressed).	
Russia202,237	437,500
Swoden and Norway	453,930
British North America108,431	600,606
Other Countries 35,323	107,771
Total620,216	1,509,873
Staves, (all sizes) 15,841	64,915
Mahogany (tons) 1,660	15,818
	1,930,694

MIGHT MONTHS ENDED SIST AUG, 1834	
Timber (Hewn).	
Russia159,847	303,876
Sweden and Norway428,367	633,763
Germany202,579	490,957
United States	609.843
British India 20,102	377, . 92
British North America	615,360
Other Countries284,444	394,673
Total 1,381,747	3,330,263
Timber (Carry on Calif	

Other Countries234,444	394,673
Total	3,330,203
Timber (Sawn or Split,	
Planed or Dressed).	
Russia 633,591	1,338,020
Swoden and Norway	2,300,426
British North America 689,980	1,803,107
Other Countries 304,592	935,797
Total 2,612,910	5,971,356
Stares (all sizes)	340,127
Mahogany (tons)	376.851

#### Total of Hown and Sawn. ..... 3,994,657 9,801,610 FUTURE PROSPECTS.

The Montreal Witness takes a look into the future and believes that it would be better for lumbermen to curtail the amount of timber cut, as the most of timber trade will fall into their hands. It says :-

"It is stated that an unusually large number of lumbermen will be sent into the woods this fall, and therefore that the amount of lumber taken out will be ususually large, as the cheapness of supplies is a great inducement. Supplies are undoubtedly much cheaper this year than they have been for some time, but, unfortunately, it is impossible to dispose of the lumber already cut at its value, and it would be better to allow it to remain in the woods to increase in size than to cut it and then allow it to lie and rot in a piling ground, or sacrifice it at a price that will not cover the expense of cutting it. Matters will soon reach such a point on this continent that we Canadians will have the most of the timber trade, and the less lumber that is taken out now the greater will be our gain in

#### MEETING OF LUMBERMEN.

A meeting of nearly forty of the lumber manufacturers on the Saginaw river met at the board of trade rooms at East Saginaw on Saturday, Sept. 20, to take into consideration the general condition of the lumber market and the best plan of relief. We learn from the Lumberman's Gazette that after a long discussion the Hon, N. B. Bradley submitted the following preamble and resolution:

Whereas, It is unwiso to manufacture more lumber than the markets require and will take at fair prices, and there being large amounts of manufactured lumber now on the docks, with a large stock of logs at the mills, it is, therefore, expedient that some action be taken looking to the reduction of that stock for the balance of the season, therefore:

Resolved, That the several boom companies which raft logs tributary to the Saginaw river mills, are hereby requested to close operations for the season immediately.

The resolution was unanimously adopted by a

Mr. Bradly said he hoped every manufacturer and log owner would sign the agreement now Clemens,

being prepared for signature, as upon it the action of the boom companies would be largely predicated.

Mr. Arthur Hill submitted the following: To the Tittabawassee Boom Co.:

GENTLEMEN,-You are bereby notified that ve, the undersigned, are utable to receive more logs from your boom this season.

You will therefore cease rafting our logs at once for the balance of the season, and we hereby waive all claims for damages for failure to raft our logs during the present se

The petition was agreed to and signed by all the firms present at the meeting.

Mr. Rust moved that similar petitions be prepared for presentation to the Au Gres and Rifle Boom companies. Carried.

Mr. Rust moved that the chair appoint a committee of three to circulate the petitions to the boom companies and obtain signatures of the log owners thereto, and present the same to the boom companies. Carried.

The chair appointed as such committee N. B. Bradly, J. A. Whittier and Arthur Hill.

The meeting then adjourned.

#### WHEN TO OUT WOOD.

Many seem to have an idea that wood should be cut in cold weather to have the stump sprout woll, and there is a great projudice against cutting in August, unless it is desired to clear up the land, because it is believed that a tree cut at this season of the year kills the root, or injures it so much that it will sprout but little, if any. June is also considered a bad month. Last year we had occasion to begin to cut wood in August, and continue it every month until August came again. The 20th of July a careful examination was made of the sprouts growing from the stump cut at the different seasons, and measurements made. We confess that the difference was so slight that it surprised us. The sprouts coming from maple stumps from which t . wood was cut last August measured five feet, and we could discover no difference in the growth from the other stumps until we come to those that were cut in June. The sprouts from stumps that the wood was cut from during the first two weeks in June were about 12 inches in height, but it must be remembered that these stumps had to force out buds and make the growth in from five to six weeks. As the land is being cleared up the sprouts were all broken off the last of July, so the experiments ended. but it would have been interesting to have continued it, that the full growth of the year might have been ascertained; to all appearance those cut in June promised the best. The stumps looked in the best condition, and the sprouts were growing very rapidly, much more so than those cut in the autumn or winter. The stump from which the wood was cut in March and April was wet and mouldy from the sap that flowed from them, while the stumps of those cut in the autumn and in June were dry and hard.

From former experience we have found that the stumps of trees cut in March often decay so rapidly that the sprouts when two years old will often blow down, because of the rottenness of the stump, while the stump of a tree cut in autumn, will dry hard and Lemain comparatively sound until the sprouts get large enough to support themselves.

The stump from which the wood was cut in July are sending up sprouts, but the first of August, were not more than 6 to 12 inches high. Massachusetts Ploughman.

#### Another Canadian Enterprise.

A despatch from Detroit says that the large aw mills which have lately been erected by the timber companies at Wallaceburg, and along the Sydenham river, have been the means of employing a number of barges in a somewhat novel enterprise, that of carrying elm bark from the mills to the seap factories at Mount Clemens and other Michigan factores. The bark is burned, and when consumed to ashes and leached the lyre in the strongest kind. The immense quantity of bark stripped from the lors at the mills before they are sawed is sufficient to keep quite a large fleet of barges runing The bark has hitherto been thrown away. The first cargoos of this kind just arrived in Mount

#### LIST OF PATENTS.

The following list of patents upon improvements in wood-working machinery, granted by the United States Patent office, Sept. 9, 1884 s specially reported to the UANADA LUMBER MAN by Franklyn H. Hough, solicitor of Amorican and foreign patents, No. 617 Seventh St., Washington, D. C.:-

304,815.-Log-binder-J. Flynn, Roscommon, Mich.

304,700.-Lumber stater-W. T. Smith, Bozeman, Ala.

304,826.-Match-splint machine-A.G.Jones, Rochesterville, Ontario, Can.

301,724.—Planer, sliding—C. A. Graff, Now York, N. Y.

304,715.-Saw-J. E. Emerson, Beaver Falls,

304,983.-Saw mill, gang-W. M. Wilkin. Erie. Pa. 304,996.—Sawa, motor for driving-D. E.

Dutrow, Washington, D. C. 304,873.— Stave-jointing machine-R. W.

Travener, Bay City, Mich. PATENTS ISSUED SEPT. 16.

305,054.-Bit brace-W. F. & E. B. Dake, Grand Haven, Mich.

305,130.-Bit steck-W. C. Marr & A. J. Maughlin, Onawa, Iowa

305,170.-Log loader-M. Garland, Bay City, Mich.

305,072.-Match sticks, device for cutting -F. & B. Graham, Rockford, Ill.

305,393.-Plane bit.-W. F. Kellett, Chicago,

305,062 & 305,063.—Pulp machine for the eduction of wood-E. P. Ely, South Wallingford. Vt.

305,206.—Saw-C. J. Lowe, Cherryfield, Me. 305.391.-Saw table gauge-J. Chency, Athol, Magg.

305,314.-Wood,etc., tools for finishing the surfaces of-J. Y. Simons, Amsterdam, N. Y.

PATENTS ISSUED SEPT. 23. 305,711.—Bark breaking mill-J. T. Phillips,

Grand Rapids, Mich. 805,447.—Barrel heads, machine for trimming

A. Guerdan, New York.

305,712.-Lathe for turning polygonal forms -P. Prybil & E. D. Mackintosh, New York, N. Y.

305,519.-Lathes, cutter support for hollow mandrel-E. H. Hudson, Potterville, Mich. 305,485.-Sash rails, machine for shaping-

G. W. Steele, Paterson. 305,660.-Saw-filing and gaging device-D E. Borger, Coal Hill, Pa.

305,556.-Saw-horse-R. Wylie, Napa City. Cal.

305,598.- Saw mill circular -J. H. Jones, Dardanelle, Ark.

305,538.-Saw mill head block-R. W. Shelburne, Blandville. 305,563.-Saw table gauge-E. Baer. New

York, N. Y. 305,520.-Shaping and planing machine-G.

ungst, New York, N. Y. 505,518.—Stump puller—J. A. Horseman

Du Bois, Pa.

#### WHITE PINE ORNAMENTATION.

Some recent attempts with white pine agears to give it a value as an ornamental wood which its common uses have not heretofore suggested. The softness of its texture and its susceptibility to injury may have had some influence in preventing its general use for ornamental purposes, but the wood can be "filled," so that much of this objection is removed. Its pure white color-white as compared with other woods-recommends it for purposes for which holly has been heretofore used; and the size of the timber from which clear lumber may be cut is greatly in its favor. boards of a width of sixteen and even twenty

reparation. Thus treated the wood is of a aint creamy tint with an appearance of semi transparency. Beautiful gradations of tone were obtained by panels of this prepared pine, mouldings of holly, and stiles of curly or birds. oye maple, and fine contrasts were made with the pine and olled black walnut.

The pine is too soft for floors, but for doors, casings, and chamber furniture it seems to be admirably adapted. The finest specimens of the wood noted come from Michigan, having fewer pitchy streaks and being of a more uniform color than the Maine product. Its ease of working by carving, and the coherence of its grain, are being utilized by masters and amateurs in the interior wood decorations. A beautiful carved mantel relieved by pilasters of oiled black walnut has been recently finished, which suggests the mellow tints of statuary marble after a short exposure to the atmosphere, while being free from the chilling sparkle and sheen of the marble.

#### ANOTHER FIRE IN CLEVELAND.

CLEVELAND, Sept. 21.-The scenes at the fire two weeks ago were repeated to-day on a smaller scale. The first fire, it was thought, originated accidentally, but to day's occurences lead to the belief that it may have been incondiary. The hire occurred at noon in Monroe Bros. & Co.'s lumber yards on the upper flats. A large amount of property was destroyed, including 2,000,000 feet of lumber. When the flames were fairly under control, a dense smoke was seen pouring from the inside of the firm's dry house. There was no fire outside of the building and no wind to blow sparks from the large fire. It was undoubtedly the work of incendiaries. The second fire was extinguished with trifling loss. Between 3 and 4 p. m., when the fire department was about returning home, thick smoke, as if from coal oil, suddenly poured from the inside of the dry shed in Browne, Strong & Co.'s lumber yard, some distance from the other fires. Two suspicious looking men were seen watching this fire at its incoption without giving an alarm, which strengthens the theory of arson. When the last fire broke out and it became certain incendiaries were at work, word was sent to the neighboring town for help and engines from Akron, Painesville, Sandusky, Elyria and Ashtabula. At 9 p. m. the fire was under control. No further danger is apprehended. Monroe Bros. & Co.'s loss is estimated at 860,000; insurance 8160,000; Brown, Strong & Co.'s loss is estimated at \$170,000; insurance about the same.

#### A Forest Mine.

There is a sunken forest of white cedar in New Jersey which has been mined for timber over seventy years. The industry of digging the sunken logs is carried on by the people of Dennisville, a village which was brought into existence through the buried wealth of lumber in its vicinity. Over the sunken forest, trees of large size are growing, and in many instances these are cut away to reach the more valuable timber three or four feet below the surface. The sunken trees are of enormous eiza. Their age is a matter of curious conjecture. It is probable they were buried many centuries ago by the action of an earthquake.

#### Lumber Insurance.

MONTREAL, Sept. 26.—The principal business transacted by the Fire Underwriters' Associa tion was the classification of lumber risks, the rates on which were materially increased. The principal adopted was that of graduating the rate according to the distance of the lumber from the saw mill, discrimination between steam and water mills was observed. Rates are to be graduated with or without the average clause.

#### Advice to Mothers

boards of a width of sixtoen and even twenty inches being not uncommon, with no shade of distinction between sap wood and heart, and only the faintest preceptible grain.

Some specimens lately examined show a greatly enhanced beauty by very simple treatment—the filling with warm shellac varnish, blenched shellac in alcohol, applied with a brush while warm. Several coats are given, the last coat being rubbed with pumice and rotten stone moistened with water, not oil. A finish of a flowing coat of copal varnish completes the speciment of the oldest and best female nurses and physicians in the United States, and is for safe by all druggiets throughout the world.

# Patent Wrought Iron or Steel GANDY PATENT





ANY SIZE FROM

30 in. to 144 in. Diameter.

4 to 48 in Face. SINGLE, DOUBLE or TREBLE ARMS. SPLIT or WHOLE PULLEYS.

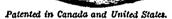
Crowning or Flat Face.

Cannot be burst by Speed or crushed by Belt.

LIGHT, STRONG and DURABLE.

Saves Power. Journals & Shafting. As obeap and obeaper than Cast Iron.

Send for Estimates.



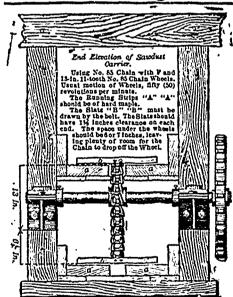
## SHAFTING AND

Note the following:

90 inch Pulley, 16 inch Face, Weight 615 lbs. 48 " 20 " " Double Arms 575 lbs. 55½ " " 12 " " Single " 273 lbs. |

CHEAPEST, STRONGEST & MOST DESIRABLE PULLEY

## Waterous Engine Works Co., Brantford.



## **Ewart Patent Link Belt**

Transmits power for slow motions w. hout slipping, stretching, &c.

## SPECIALLY ADAPTED

For Live Rolls, Lumber and Cant Transfers. Sawduet, Slab and Offal Carriers, Log Jacks, Loading Logs lengthwise on Cars.

Loading Ties endwise and Telegraph Poles lengthwise on Cars, or vice versa on Cars or Vessels.

USEFUL TO MOVE ALMOST EVERYTHING

If doubtful whether or not it will apply to yovr wants. Send for information giving ull particulars.

### SAWS



A! SPECIALTY.

## American Saws

NAVE YOUR TIMBER, (making the price of saw every fifteen days) by using our Thin Saws.

60 SNUII DAMARCUN Tempered Saws, 9 and 10 guage, guaranteed at 800 revolutions or less, six to eight inch feed or less.

CLIPPER FLANGE TOOTH SAWS.

PLANER SAW.

BROOKE & HOE BIT SAWS.

SWAGER, GUMMERS, CANT-HOOKS, do Files, Emery Wheels, and all kinds of Saw Hill

Waterous Engine 'orks Co's BRANTFORD, CANADA.

## The Perfect Pulley Cotton Belting.

BEST



Practically indestructible under ordinary usage-unaffected by atmospheric changes. Uninjured by water or steam, or heat that would ruin leather or rubber. Stronger than rubber or leather.

Its peculiar adhesive or gripping power on pulleys enables it to be run looser than any other Belt, actual tests proving it to be 40 to 50 per cent BETTER.

#### BELTS A SPECIALTY. **ENDLESS**

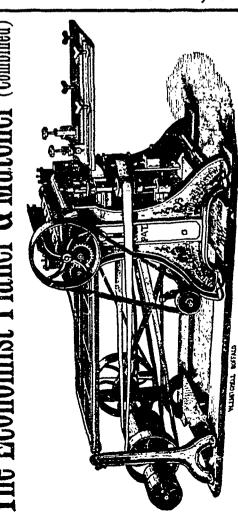
As Strong at Splice as elsewhere, and as even and smooth. A few of the large sizes lately supplied in Canada:-

60	feet,	13	inches	wide,	8	ply.	84	H			inches				
49	** *	18	16	**	8	-12	57	7	٤.	20	"	"	8	- ((	
49	"	12	46	41	6	4.6	49	3	"	11	"	.4	8	"	
103		$\tilde{2}\tilde{2}$	66	16		44	47		**	12	"	"	Ğ	**	
52	66	20	**	44	ĕ		73		"	20	11,	44	8	"	
101	44	18	44	66	8		. 51		46	16	"	"	8	66	
52	"	18	**	**	8		37		"	16	11	4.6	8	"	
	46	10	66	**	Q	44									

Many of the above are endless, and are the second belts to same parties, ordered after thorough trial. Try a GANDY BELT. Address the Sole Canadian Agents,

# Waterous Engine Works Co.

BRANTFORD, CANADA.



#### FORESTRY ALID LUMBER TRADE OF DANADA

We take the following in regard to the forcetry and the lumber trade of Canada, from a work, "Hand Book of the Dominion of Can ada," by Mr. S. E. Dawson, one of the local secretaries of the British Association, which was published for the guidance of members of the Association :

#### FORESTRY OF CANADA.

Taking a general view of the great forest areas of the Dominion, some striking facts present themselves. The line of separation between the wooded and the prairie country west of the Lake of the Woods forms an abrupt barrier beyond which but fow of the trees of Ontario, Queboc and the Maritime Provinces extend; whilst the Rocky Mountains are found to be a divide separating from the rest of the Dominion a forest flora, which, with few exceptions, is distinctive of British Columbia, Washington, and Oregon.

There are ninety-five species of forest trees in Canada, of which Ontario, the most southerly of the Provinces, has sixty five. Of these, all, with five exceptions, occur in the Lake Eric districts, fifty-two extend eastward into the Province of Quebec, thirty-four are found to a greater or less extent on the castern and western coasts of Lake Superior; whilst only fourteen have been observed to range westward to the R.d River and the prairie country thence to the Rocky Mountains. On the other hand, thirty-four species of trees are found in British Col. umbia, of which only seven-the aspen poplar (Populus tremuloides), balsam poplar (P. balsamifera), cance birch (Betula papyracea), white spruce (Abies alba), black spruce (A. nigra), balsam (A. balsamea) and red codar (Juniperus Virginana)- extend eastward beyond the influence of the Rocky Mountains, but these seven are, with the exception of the red codar, which is more limited in range, very generally distributed over the whole Dominion from the Mackenzie River to Nova Scotia. Eighteen. or more than one half, of the British Columbia trees belong to the Coniferm or Pine family.

The leading economic trees of Ontario, near-ly all of which range into the other eastern provinces, are

Basswood (Tilia Americana). Red maple (Acer rubrum). Sugar maple (Acer saccharinum). Black ash (Fraxinus sambucifolia). White ash (F. Americana). Rod elm (Ulmus fulva). White elm (U. Americana). Plane tree (Platanus occidentalis). Butternut (Juglans cinerea). Walnut (J. nigra). Hickory (Carya alba). Bur oak (Quercus macrocarpa). White oak (Q. alba). Red oak (Q. rubra). Beoch (Fagus forruginea). Hop hornbeam (Ostrya Virginica). Canoo birch (Betula papyracea). Black birch (B. lenta). Aspen (Populus tremuloides). Aspen (P. grandidentata). Balsam poplar (P. balsamifera). Red pine (Pinus resinosa). White pine (Pinus Strobus). Balsam fir (Abies balsamea). Hemlock (A. Canadensis). Black spruce (A. nigra) White spruce( A. alba). Tamarac (Larix Americana). Arbor vitie (Thuja occidentalis). The prominent trees of Manitoha which province may be considered as representing the Central District of Canada—are

Basswood (Tilia Americana). Ash-leaved maple (Oegundo aceroides). Green ash (Fraxinus viridis). White elm (Ulmus An ericana). Canoo birch (Betula papy racea). Aspen (Populus tremuloides). Balsam poplar (P. balsamifera) Black spruce (A. alba). Tamarac (Larix Americana). In British Columbia the leading trees, in addition to the six previously mentioned, are Maple (Acer macrophyllum). Alder (Alnus rubra).

Oak (Quereus Garryana).

Cottonwood (Populus trichocarpa). Western birch (Betula occidentalis). Western scrub pine (Pinus contorta), White pine (P. monticols). Yellow pine (P. ponderosa). Menzies' spruco (Picea Monziesii). Eugelmann's spruce (Picca Engelmanni). Spruce (Abies grandis). Balsam spruce (A. subalpina). Western hemlock (Tsuga Mertensiana). Williamson's homlock (T, Pattoniana). Douglas fir (Pseudotsuga Douglasii). Giant codar (Thuja gigantea). Yellow cypress (Chammeyparis Nutkaensis). Yew (Taxus brevifolis). Western larch (Larix occidentalis).

The Government of the Province of Ontario has recently taken up seriously the question of preserving and replanting forests, and of treeplanting upon the high-roads and farms. The Government of Queboo has also wakened up to the importance of the subject, and has institu-ted an "arbor day" or annual treeplanting holiday throughout the province. But the offorts of those concerned in forestry have hitherto been turned chiefly towards obtaining more stringent regulations for preventing forest fires and for compelling the lumbermen to work their limits in a more economical manner. The forestry associations throughout the country are doing good, useful work in calling the attention of the farmers and settlers to t' great and increasing value of wooded land. THE LUMBER TRADE.

The lumber trade of the Deminion is still its most important commercial interest. The products of the forest considerably exceed in value those of the farm. The home consumption of lumber is large, inasmuch as building is chiefly done in wood. The quantity required for domestic use is estimated at two-thirds of the total quantity made, the balance finding its way to England, the United States, the West Indies, and South America.

The principal areas of timber lands lie in the provinces of Quebec and Ontario. The province of Quebec has under license 48,500 square miles producing 2,500,000 pine logs, equal to 386,600,-000 feet B. M., and 1,301,000 spruce logs, equal to 100,000,000 feet B. M.; white and red pine timber, 3.110,000 cubic feet equal to 37,320,000 feet B. M.; hardwood, 51,000 cubic feet or 611,000 feet B. M.; railroad ties, 143,000 pieces 32 feet each, making 4,576,000 feet B.M.; codar, equal to 4,500,000 feet; pine and spruce, round timber, 5,760,000 feet B. M.; besides tamarac, hemlock and cordwood, in all 549,976,000 feet, giving a gross revenue of \$668,596 to the

The Province of Ontario has 18,000 square miles under license, furnishing 2,600,000 standard pine logs equal to 520,000,000 feet of lumber; 6,790,090 cubic feet of white and red pine, or 81,000,000 feet B. M.; dimension timber 23, 000,000 feet B. M.; hardwood, cedar, &c., in all 635,500,000 feet B. M.; paying to the Pro vincial Government \$547,000. These figures are for the year 1880-81. The revenue from the crown lands both in Ontario and Quebec has increased since, for in 1883 Quebec shows \$856, 872, and Ontario \$635,447.

In New Brunswick the cut of timber on Government lands equals 160,000,000 feet, yielding to the Province \$152,000. Prince for home use. Manitoba and the North-west territories are sparely provided with timber, and the trade therein is still unimportant. British Columbia is more amply supplied, and as its facilities for export increase, it must develop a large trade. Its most important timber tree is the Douglas spruce or Oregon pine, which is the only kind that has as yet become of economic value. Its wood is yellow or reddish and coarse grained. It is considered inferior to the pine of the Ottawa region for finer kinds of work.

The most highly prized timber in the country is white pine, and the best qualities are to be found on the Ottawa river. The Ottawa white pine is justly famous for its softness, owing to

creasing. The production of spruce is relative ly on the increase as a substitute in many ways for pinc.

The timber lands held under license are operated subject to the following regulations:-Licensod lands are divided into limits commonly of about fifty square miles each. Upon the sale of a limit the Government retains its proprietary right in the land, selling only the privilege to cut and carry off the timber. The purchase then has to pay a ground rent of \$2 per mile annually. The licenses under which the land is held are renewable every year, and may be continued as long as the owner of standing timber requires the use of the land for his operations. In addition to this charge, the timber, when cut and brought away, is subject to crown dues, which vary according to the description of the produce. Pine logs pay 15 cents per standard log of 200 feet, board measure and spruce logs pay 10 cents per log in Queboo. In Ontario, pine and spruce pay 22 and 51 cents respectively.

Operations in the woods are commenced about the middle of December. Gangs of men are sent up by the first snow roads. Arriving on the spot of their labor, they build themselves chantiers, of rough logs, and prepare stabling for the horses, to follow about a month later. The work of felling and hauling goes on till about the 15th of March. By that time the product of the winter's work has been hauled to the bank of some stream and piled up on the rollway ready to be thrown into the river. The camps are then broken up, and the men are paid off. About a month later fresh gangs of mon are sent up the river to tumble in the stuff and drive it to its destination at the market or the mill.

Consequent upon the alteration in the commercial policy of England which took place in 1849, the trade in lumber commenced to change its direction towards the United States. tween the years 1821 and 1832 the total export of productions of all kinds to that country averaged \$3,257,153 annually, while in 1882 the trade in lumber alone with the United States amounted to \$10,192,933. This further change also ensued that whereas in former years the lumber was exported to England in the shape of large pieces of square timber; under the changed policy, saw mills of larger dimensions and increased capacity sprang up and the lumber was exported to England as deals and to the United States as boards. Thus employment was provided for an additional number of hands in Canada.

#### AN EVIDENCE OF RAPID GROWTH.

In the township of Freedom, Cheboygan county, Mich., a farmor, Mr. Charles Wilson, has discovered distinctive evidence that where now stands an immense growth of hard maple timber, there was once a corn field. Scattered through the forest are numerous piles of stone. apparently gathered off the land to make room for cultivation, and the corn hills are still distinctly visible and as regular in order and distance apart as if planted recently. Mr. Wilson concludes that these corn fields must have been extant conturies ago, since the full growth of maple timber has risen since. Though Mr. Wilson has probably let his imagination run backward too far, the discovery he Edward Island yields no more than is required has made suggests an interesting question in regard to tree growth in the northern part of the southern peninsula. Nowhere in the country is there a more prolific growth of rock or sugar maple. It is likely that the remains of the old corn fields that Mr. Wilson has found is evidence that the forests in that locality have grown more rapidly than is generally supposed. The corn hills spoken of are possibly the signs of cultivation in the days of the French missionary occupation in that region, when Marquette exercised the function of spiritual and civil dictator over the Indian tribes thereabout. Corn hills are found in the woods all along the lake shore from Cheboyan to Grand Traverse. The Indian method was to make a conical hillock, in the top of which the corn was plant-

which to spread, are also still standing. How far back these agricultural and horticultural endeavors date it is impossible now to determine. Often the corn hills are found in little circular cleared spaces, dovoid of giant tree growths, but often again they are scattered where the tall trees stand thickly. Viewing the subject in any historical light we may, it is certain that the prolific forests of the northwest counties of the lower peninsula have developed very rapidly, showing the adaptability of the soil and climate of that region for tree growth. Northwestern Lumberman.

#### WIND, FİRE AND FLOOD.

Fire and floods, says the Lumberman's Gazette. have been fruitful of destruction to property, especially to lumber. The Chippewa and Eau Claire rivers in Wisconsin, and other streams in that state which poured their volume of water into the rivers named, spread devastation and ruin on every hand. The flood reached the highest point known for years, and nothing could withstand the force of the elements Buildings, bridges, logs, lumber, and even the roads, were swept away by the volume of the waters. In Eau Claire the destruction was terrible, over two hundred buildings being carried away, according to the despatches sent over the wires from that place. The lesses are appalling, although a dispatch received from there on the 13th inst. says that all of the saw mills are left in good shape. They are temporarily shut down, but able to resume operations the coming week. There are plenty of available logs, but all of the dams on the Chippewa save the Della, were carried off. Lumbermen are discouraged but not disheartened.

At Alpena, Mich., the wind blew a hurricane and the rainfall was wonderful—an inch in eight minutes. Houses, mill smoke stacks, and lumber piles were demolished. One mill lost its roof and 40,000 feet of lumber blown into the lake.

The fire scourage has been equally appalling nd spread more generally over the country. Mitchell, Dakota, lost over \$35,000 in lumber, besides \$125,000 in other property; Dubuque, Iowa, lost 6,000,000 feet of lumber by the fire fiend; forest fires ravaged \$10,000 worth near Reed City, Mich.; Lumberton near Grand Rapids, lost 1,000,000 feet of pine besides other property; Milton Junction lost \$4,000 in lumber and tan bark; a small saw mill near Coloma, Michigan, destroyed, loss \$9,000; Mc-Lean's Siding, a station on the C. & W. M. railroad, destroyed, with lumber amounting to \$20,000. These and numerous other fires throughout the country have struck the lumber piles hard, coming as they do on the heels of the destructive fire at Cleveland. It is estimated that 150,000,000 feet lumber has been licked up by the fire fiend during the season.

#### DEAL SHIPMENT.

Shipments of deals from Chatham, N. B., this season have been fally up to those of 1883, but only limited shipments will likely be made for the balance of the year. In 1883 about 140,000,000 feet was forwarded from Chatham and Newcastle, and 70,000,000 feet more was wintered over. Of the latter quantity, 40,000,-000 feet have been shipped this season, so that, although Liverpool dealers were notified that the Miramichi quota this year would fall onethird short of 1883, the large amount wintered over and forwarded carly this season brings the total figures up to those of last year. Rafting operations have been concluded a month earlier than usual, and preparations are already being made for next winter's campaign in the woods. The prespect is that the cut of 1885 will scarcely reach beyond 50 per cent. of an average year. Monetary Times.

Lumber Destroyed by an Incendiary. DUNNVILLE, Sopt 16.—Early this morning a fire broke out in some lumber and ties which were piled on the canal bank about two miles below here. The lumber destroyed consisted chiefly of chestnut and maple, valued at about which it can be easily moulded into the forms required for interior work. But the better qualities are being gradually depleted, and it is said that the proportion of high grade pine produced on the Ottawa river is rapidly de-last if reaching for sunlight and a free space in anything.

#### THE MEXICAN WOOD-SELLER.

Beyond all artisans in the world, writes George Jacob Holyoake, I envy the Mexican wood-seller. He takes three days to cut his wood in the most remantic dells in the universe. He loads his asses in the morning sun. Spends a day in roadless gorges by the side of his fourfooted friends. He takes another day in the quaint, sunny city of Santa Fe, selling his bundles. Another day he returns. For his six days' work he obtains five, or, if wood is scarce in the city, six shillings. With this money in hand he buys a pint of whisky, of quality very doubtful, the backbones of a couple of sheep, some coffee, or pepper, or some other spice. He does no more work while these provisions last. He takes no notice of the market, whether the prices are high or low. He revisits it only when his necessity compels him. Ho has no care, no master, no overlooker, no bell rings him up to work. He has no artificial wants-he breathes some of the purest air on this planet. In the far distance silver-capped mountains wait for his glance, sweet streams ripple at his feet, and if the sun fatigues him he sleeps under the bushes, and his faithful asses he down and awart his pleasure. The day is warm and undamp, the night cold but dry. No vermin, large fruit, grass not green, but rich, which feeds his asses without cost. When he pleases to wake he calls to his loaded friends, and they jointly pursue their way. No electoral agitation is about here. He knows nothing of Irish discontent or ritualistic troubles. Democrat and Republican, Tory and Liberal are alike unknown to him. The ballot box is not set up in his parts. He has health without effort, good teeth and black hair. His garments last for a generation-appearances and fashion concern him in nowise.

#### THE ECONOMY OF WOOD IN FRANCE.

A correspondent to the New York World describing how every foot of the soil is utilized in France, mentions the method pursued to supply the country with fuel by the growth of Lombardy poplar. The correspondent says: "In going from Paris to Geneva, via Dijon, we pass through the best portion of France. For hundreds of miles every inch of land is cultivated. The abrupt side hills are in grape vines and the flat land in grain. Here we see the phenomenon of double crops—a crop of grain and vegetables growing under a crop of trees. The Normandy poplar trees are from an inch to three feet in diameter. They are planted thickly, but give no shade. They are trimmed within six feet of the tops. The boughs, which are cut off every year, make fagots enough to warm France. We often see men and women cradling wheat or hoeing beets iff the midst of a wood giving no shade. When you look across the country the tall, boughless trunks look like black streaks painted against the sky. They make the view very picturesque. Wood in France is sold for a third of a cent a pound. It is worth as much as corn in Kansas by the pound. So when the Kansas man burns corn, he is no more profligate than the Frenchman who burns faggots."

#### A Shining Tree.

A most remarkable tree or shrub grows in a small gulch near some springs, about twelve miles north of Tuscarora, is about six or seven feet in height, with a trunk which, at its base, is three times the size of a man's wrist. It has innumerable branches and twigs, and resembles somewhat the barberry trees. Its foliage at certain season's of the year is so luminous that it can be plainly distinguished in the darkest night for a distance of more than a mile, while in its immediate vicinity it emits sufficient light to enable a person to read the finest print. Its foliage is extremely rank, and its leaves resemble semewhat, in size shape and color, those of the aromatic bay tree of California. The luminous property is evidently parasitic, and consists of a sort of gummy substance, which, upon being transferred by rubbing to person's hand, imparts to it the same apparently phosphorescent light, while that on the leaf entirely disappears .- Tuskarora, Nev., Times,

Subscribe to the Canada Lumberman.

#### REMEDY FOR DRY ROT.

A remedy has been discovered, says the Mechanical World, by the use of which this destructive enemy to the woodwork of a house may be destroyed or arrested. What is known as "dry rot" is caused by the spores of a species of fungus (the Merulius lacrymans), which, though they are sometimes carried by currents of air to the scene of their future devastations, are more frequently present in the soil upon which the house is built at the time of erection. and are brought into near contact with the woodwork in the filling up between the joists. or sometimes even in the mortar. Notwithstanding its name, dry rot does not act upon perfectly dry timber, but begins its ravages whenever the wood is in the necessary state of humidity. It may be prevented by mixing with the rubbish used for filling in the floors the "tank waste" from alkali works, or the same substance will completely check it if already developed. Tank waste is of no commercial value, and may be had at alkali works for fetching; it wholly destroys this species of vegetable life, and generates no bad smell whatever.

#### WHAT COLORS OF BUOYS MEAN.

When you enter any harbor in the world, said a pilot to a Sun reporter, where the channel is marked by buoys, you will find that those on your right as you pass in are painted red, and those on your left black. If you should see one painted in red and black horizontal bands, the ship should run as close to it as possible, because that indicates the centre of a narrow channel. Buoys with red and black checkers are painted on a buoy, it marks either a rock in the open sea or an obstruction in the harbor of small extent with a channel all around. If there are two such obstructions and a channel between them, the buoy on the right of you will have red and white checkers, and the one on the left will have black and white checkers. When a wreck obstructs the channel a green buoy will be placed on the sea side of the wreck, with the work "wreck" plainly painted on it in white letters, provided there is a clear channel ail around it; otherwise, an even number will be painted in white above the word "wreck" when the buoy is on the right side of the channel, and an odd number if the buoy is on the left.

THE Wisconsin Sash and Door Company, of Chicago, Ill., which closed up its business last week, has sold its stock on hand to the amount of about \$30,000 to Gauger, Olver & Co., Chicago, and its lease on warehouse with personal property and fixtures to the Hintzo & Baker Company, who will make use of the establishment as a factory and setting up shop. Northwestern Lumberman.

### 266th Edition. Price Only \$1 BY MAIL POST-PAID.



A Great Medical Work on Manhood

A Great Medical Work on Manhood,

Exhausted Vitality, Nervous and Physicial Debility,
Premature Decline in Man, Errors of Youth, and the
untold miseries resulting from indiscretion or excesses.
A book for every man, young, middle-aged and old,
it contains 125 perscriptions for all acute and chronic
diseases, each one of which is invaluable. So found by
the Author, whose experience for 23 years is such as
Probably never before fell to the lot of any physician.
S00 pages, bound in beautiful French muslin, embossed covers, full gilt, guaranteed to be a finer work
in every sense—mechanical literary and professional
than any other work sold in this country for \$2.50,
or the money will be refunded in every instance.
Price only \$1.00 by mail, post-paie. Illustrative
sample 6 cents. Send now. Gold medal awarded the
author by the National Medical Association, to the
officers of which he refers.

This book should be read by the young for instruct
ion, and the afflicted for relief. It will benefit all.

—London Lancet.

There is no member of society to whom this book
will not be useful, whether youth, paront, guardian,
instructor or clergyman.—Argonaut.

Address the Peabody Medical Institute, or Dr. W. H.
Parker, No. 4 Builfach Street, Boston, Mass., who may
be consulted on all di-cauce requiring skill and expeitence. Chronic and obstinate diseases that have
beful the skill of all other phys LEAL fellay
without an instance of fail THYSELF

#### WM. LATCH

Wholesale Dealer in All Kinds of

### PINE and HARDWOOD LUMBER

SHINGLES AND LATH.

SIGNMENTS BOUGHT AND SOLD ON COMMISSION

26 Adelaide St. East, TORONTO, ONT.



Canada Lead & Saw Works, JAMES ROBERTSON.

OTTAWA, - ONTARIO

Metal Merchant and Manufacturer,

Office 20 Wellington St., MONTREAL, P.O. Box 1500. White Leads, Putty, Shot. Also, Gang, Circular and Cross-Cut Saws of all kinds. Prices furnished on application.

BRANCHES: TORONTO, Jas. Robertson & Co. ST. JOHN, N.B., James Robertson.

### J. T. LAMBERT

Lumber and Commission Agent.

ORDERS FOR DIMENSIONS AND ALL OTHER KINDS AND GRADES OF

## merican

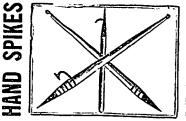
PROMPTLY ATTENDED TO.

Timber Limits and the Square Timber Trade a Specialty.

Office, Wellington Street, OTTAWA. Ltf.

## $^{ m IM.}$ AHEARN

MANUFACTURER OF



Lumberman's Tools, etc.,

HIGHEST AWARDS IN CANADA and U.S. CHAUDIERE, OTTAWA.

## PATENTS

UNN & CO., of the Scientific American, connucto act as Solicitors for Patents, Caveats, Trade arks, Copyrights, for the United States, Canada, migland, France, Germany, etc. Hand Book about atents sent free. Thirty-seven years' experience, Patents obtained through MUNN & CO., are noticed the Scientific American, the largest, best, and out widely circulated scientific paper. \$3.00 year, yearly spelled engravings and interesting insormation. Specimen copy of the Scientific American sent free. Address MUNN & CO., SCIENTIFIC MERICAN Office, 261 Broadway, New York.



#### INVESTICATORS IN USE.

It is a specific in the cure of all diseases of the Kidneys, Riadder, Prostatio Fortion of the Urinary Organs, Irritation of the Neet of the Urinary Organs, Irritation of the Neet of the Riad of the Urinary Organs, Irritation of the Neet of the Riad of the Kidneys, Rick Organ of the Kidneys and Riadder, Dropsy of the Kidneys and Urina, Bloody Urine, Pain in the Rection of the Riad of Urine, Bloody Urine, Pain in the Rection of the Riad of Urine, Rose, College Recention of Urine, Frequent Urination, Grarul in all its forms, Inability to retain the Water, particularly in persons advanced in Urin II 18 & KIDNEY INVESTIGATOR that restores the Urins to its natural color, rumoves the acid and burning, and the effect of the Crestive use of intoricating drink,

FRIUCE, St. 107. Six Bottles for Rr.

FHICE, 81; or, Six Bottles for 85.
EFficial for Greuler. Sold by all Dru Sold by all Druggists.

W. Johnston & Co., 101 Jefferson Avo., 1\_ DETEOIT, MICH.

## A. & T. J. DARLING & Co.

TORONTO, ONT.

Specialties—"Darling" Axes, Saws, Cutlery, "Black Diamond" Files.

### ${ t HARDWARE}$ .

#### J. K. POST & CO. LUMBER MERCHANTS

And Shipping Agents. OSWEGO, N.Y.

## HILL OCK & KENT

Wholesale and Retail Dealer in

Pine and Hardwood Lumber, Lath, Shingles Vencers, Wave Mouldings & Fancy Woods.

103 Albert Sireet, TORONTO.

The American Hotel, BARRIE, ONT.

Collier St., Adjoining Market.

RATES REASONABLE, CENTRAL LOCATION, FREE BUS TO AND FROM ALL TRAINS.

AZT Every accommodation for Commercial and LUMBERMEN. 1ttf W. D. McDONALD, Proprietor.

### Vulcar iron works

[ESTABLISHED 1842.]

## STEWART & FLECK, Jr.,

Manufacturors of every Description of

### Saw and Grist Mill Machinery.

Water Wheels, Steam Engines, Derricks Boilers, Steam Pumps, Mining Machinery.

20L REPAIRS PROMPTLY EXECUTED. 1v

Wellington Street, OTTAWA, Ont.

GRATEFUL-COMFORTING.

BREAKFAST.

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

Made simply with boiling water or milk. Sold only in packets by Grocers, labelled thus:

JAMES EPPS & Co., Homocopathic Chemists, 1vL21 London, England.

DO YOU WANT



Examine the list of FARMS FOR SALE" AND "FARMS WANTED"

DAILY AND WEEKLY MAIL

DAILY AND WEEKLY WAIL
THE MAIL has become
The Recognized Medium for Farm Advertisements
And contains more of them than all other Canadian papers
combined. It has spaced reader of the right class.
ADVERTISEMENTS of "Farms for Sale" and varied in
lented in THE WEEKLY MAIL. for candidate the
seried in THE WEEKLY MAIL. for candidate per
cor in THE DAILY MAIL at two and a half tent per
word each insertion.

Address- THE MAIL Toronto, Canada.



DEVOTED TO THE LUMBER AND TIMBER INTERESTS OF THE DOMINION.

PUBLISHED SEMI-MONTHLY BY THE Peterborough Review Printing and Publishing Company (Limited), Peterborough, Ont.

Terms of Subscription:	
One copy, one year, in advance	\$2 00 1 00
Advertising Rates:	
Por line, for one year	<b>80 00</b>

Por line, for six months.

Por line, for three months.

Por line, for direct insertion.

Por line, for cach subsequent insertion to 3 move.

Cards not occupying more than 12 lines (1 inch)

por annum.

Cards not occupying more than 12 lines (1 inch)

for six months.

Cards not occupying more than 6 lines per annum 5

Cards not occupying more than 6 lines per annum 5

Cards not occupying more than 6 lines, for 6 move 3

Special rates will be made for move, half more a

Special rates will be made for page, half page an column advertisements.

Advertisements intended for insertion in any particular issue should reach the office of publication at least four clear days before the day of publication, to insure insertion

All communications, orders and remittances should be addressed and made payable to The Petershoroushing and Publishing Company (Limited), Peterborough, Ont.

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

The CANADA LUMBERMAN is filed at the Offices of Misses. SAMURL DEACON & Co., 154 Leadenhall Street, London, England, who also receive advertisements and subscriptions for this paper.

#### PETERBOROUGH, Ont., OCT. 1, 1884.

LARGE tracts of valuable cedar have been burned in the vicinity of Kincardine, Canada.

THE schooner Regina, from Quebec for Buenos Ayres, with lumber, which put in to Gaspe damaged, had jettisoned a portion of her-

THE saw mill, lumber yard and grist mill of F. S. Hall, at Southport, Chemung county, N. Y., were burned September 8. Loss about \$18,000.

THE village of Pinconning, Mich., was surrounded by forest fires, Sept. 17, and was in great danger of being burned. All business was suspended.

REPORTS from Port Huron, Mich., Sopt. 17, stated that forest fires were burning fiercely west of the town, and unless rain came its safety was threatened.

THE gang in the mill of the Conger Lumber Company, Parry Sound, Ont., broke twice within a week recently. The mili will probably be closed for the season September 20.

THE lumbermen around Ottawa are commencing to engage men for the shanties. An unusually large number will likely go to the woods this season owing to the low price of hay and grain.

FIRE totally destroyed the sash and door factory of T. Lowis, Trenton, Unt., on the morning of Soptember 13, together with several other buildings. Total loss \$4,000. Lowis had no insurance.

J. Yonus, working in Williams Bros.' mill. at Saginaw, Mich., was recently struck by a heavy piece of timber under the chin. It cut clear through and severed his tongue half an inch from the end.

THE big Casino mill, owned by W. H. Watson, near Cottonwood City, Meagher county, Mon., was burned September 5, together with the surrounding buildings and a quantity of logs. Loss, \$60,000.

Forest fires which have been burning for a veck are causing much alarm in the villages of Ballston and Pleasant Mills, on the borders of Atlantic and Burlington counties New Jersey.

THE barge Conard Reed, lumber laden, was towed into Amherstburg, Canada, September 13, being waterlogged. It will be necessary to piscuargo her cargo and pump her out before the leak can be repaired.

J. M. Holt & Co.'s saw mill at Loch Lomond two miles north of Philipsburg, Pa., burned September 10, together with several million feet of lumber, with shingles, lath, etc. Loss estim ated at over \$100,000; insurance, \$75,000.

THE tug Sherwood, owned by Messrs. Rathbun & Son, Descronto, was burned in the Bay of Quinto on Sept. 17th. There were six men and a woman aboard. Those who could swim got on shore, and by shoving out rails managed to safe the others. Everything aboard including the books were burned.

J. R. Sutherland & Co.'s extensive saw mill at St. Boniface, Man., was burned on Sept. 25, with its contents and a large quantity of lumber destroyed. The fire brigade from Winnipeg were quickly in attendance and prevented the spread of the flames. Cause of the fire unknown. Loss not yet estimated, but expected to exceed \$15,000 or \$20,000. Well insured.

THE exports of lumber from Montreal in August last amounted to 6,626,000 feet. Of this total nearly 3,000,000 feet in twelve steam ships, went to Liverpool, 1,831,820 feet in four steamers, to London, the remainder to Glasgow, Bristol, Sharpness, Gloucester and Penarth Roads. All were steamers except two barques and a brig, the total number of crafts lumber laden, being 29.

THE latest news from Pinonning, Bay county, Mich., says the danger from forest fires is over for the present. The wind has subsided and the progress of the flames is checked. Fire fighting is still kept up, however, on all sides. The village of Arenac is in about the same condition. The danger seems over unless the wind changes and increases in velocity.

A MEETING of the creditors of the lumber firm of S. S. Mutton & Cc., Toronto, has been called. The liabilities are heavy; the assets are not yet ascertainable. The direct cause of the trouble lies in certain of the firm's notes going to protest while in the hands of the Standard Bank, which is said to be interested. Last year the firm was stated to be worth \$70,000 with \$17.080 liabilities.

CANADA ranked low down in the list of prizes at the forestry exhibition at Edinburgh. Not one first or second class gold medal was awarded to this country. This is attributable to the supineness of our own people, for the only province represented at the exhibition was New Brunswick. Canada, properly represented, should be able to hold its own with any country in the world at such an exhibition. -Ottawa

FOSTER, BLACKBURN & Co., of Big Rapids and Baldwin, Mich., September4th filed chattel mortgages to the amount of \$93,022, to secure commercial and accommodation paper covering all their lumber, lath and saw logs at their mills in the vicinity of Baldwin, and a stock of goods at Baldwin. They also gave a trust deed to E. F. Uhl and D. F. Comstock, to secure certain creditors. It is thought the liabilities of the firm will excood \$100,000, and that assets will oxcood liabilities.—Northwestern Lumberman.

#### Peterborough.

Mr. R. C. Strickland has just returned from the east, having sold to R. R. Dobell & Co. all the waney and square timber of his firm, realizing in the neighborhood of \$90,000. The sale of timber at present is very slow, but the extra quality and average of the timber enabled him to effect a satisfactory sale. He has contracted for another hundred thousand to be delivered next year to the same firm,-Review.

#### FORESTRY.

Mr. Phippe is busy in the northern forests. We clip the following from the Pembroke Observer :

FOREST PRESERVATION.-Mr. R. W. Phipps the Forest Conservator of the Ontario Government, is up here at present on a tour of observation through the woods. He left Pembroke by train yesterday for Mattawa, and will go on to Lake Nipissing, intending to stop at the various lumber stations, and traverse the intervening country by cance or otherwise. The main purport of his visit to the lumber regions at this time is to get opinions from practical men, and ideas from personal observation, as to the best means of preventing forest fires, and also the most effectual method of preserving the pine forests in a reproductive condition. There is no doubt that if these objects can be carried out, the result will be very valuable to the country.

#### LOOKING FOR \$75,000.

The Brockville Recorder says :- Benjamain Campbell is the name of the man who is searching for the raft of oak timber, sunk in the St. Lawrence river above Chippewa Point. Mr. Campbell has succeeded in finding what he thinks must be the timber. It seems to be in three parts in forty feet of water. The wreckers are expected this week to raise the timber. Mr. Campbell says his father was engaged in the lumber business before the war of 1812 and had got out a large quantity of oak timber in the town of Clayton, made it into a raft there and started for Montreal with it. When he heard that war had been declared he cut the withs and the floats and let the timber sink. The raft is said to have covered five acres of surface and is valued at \$75,000.

#### THE FORESTRY CONGRESS.

The following in reference to the Forestry Congress appears in the Montreal Witness:

Hearing that the Hon. Mr. Joly, ex-Premier of Quebec, was at the Windsor Hotel on his return from the Forestry Congress at Saratoga, a Witness reporter waited on him yesterday, and found him taking a hasty lunch previous to his departure for home. In reference to the Forestry Congress, the hon. gentleman stated that it was not attended by Canadians as well as it ought to have been. There were only present from Canada Messrs. William Little and J. K. Ward, of Montreal, and himself. Mr. Ward read a paper on "Lumbering in Canada," which excited great interest; in fact, it was one of the documents which was listened to with the greatest of pleasure by the congress, and no one could wonder at Mr. Ward's success who remembered the magnificent lecture he delivered on the same subject before the Y. M. C. A., in Montreal last winter.

The Congress acknowledged with gratitude the ready compliance of the different Governments of the Dominion, and especially those of Quebec, Ontario and Nova Scotia, with the report made in the Montreal session in 1882, by a special committee, of which the late Hon. Geo. Bryson was chairman, "for the better protection of our forests." A regret was expressed that in the United States the same action had not

been taken.

The meeting had a very practical purpose in the study of the question, which, though for the present effecting only the prospenty of the State of New York, and its great commercial metropolis, was nevertheless one of great interest in Canada, viz., "the effect produced upon the volume of water of the river Hudson by the destruction of the Adirondack forests, whence the river takes its source."

The waters of the Hudson are getting gradually lower every summer, so as to render navigation more and more difficult. It was evidently the opinion of the immense majority of the Congress that the shrinkage of the water or the irregularity of its flow was owing to the wholesale destruction of the forests. In order to ascertain the state of these forests a number of members, including himself, started for the Adirondack Mountains immediately after the Congress adjourned, and their report will be looked forward to with great interest, as the Legislature of the State of New York has taken

consideration. A report of the proceedings of the Congress, which will contain some highly interesting matter, will shortly be published, and copy forwarded to each member.

Speaking of his pleasure trip, Mr. Joly said he had taken his wife with him and they had enjoyed themselves very much. Saratoga was perfectly levely and the weather was charming. When up among the beautiful mountains and lakes of the Adirondacks, he had never felt so delighted with nature's secenery. The party went over a number of lakes at the head waters of the-Hudson and came back, one and all, delighted with the American Switzerland.

#### TYNE.

The Timber Trades Journal of Sept. 13, says . The arrivals of the past seven days have been on a very much larger scale, and comprise sevoral cargoes of respectable proportions, amongst them being one steamer with an entire carge of Sundawall deals; there is, however, no very heavy importation, and so far all the sawn goods coming forward appear to be finding their way into consumption, and are not preceptibly increasing the stocks. American goods are coming only very clowly to hand this season; few cargoes have as yet been imported, and, as the demand for all except yellow pine deals is very small, and stocks of other goods sufficiently large, it is well they are not coming forward in quantity. Pitch pine timber is still very largely held, and selling at very lew rates, while in hardwood, oak, olm, etc., there is absolutely no sale at all. Pitwood is still a drug in the market, and can be bought at ruinously low

On the 9th inst. Mr. R. Mack offered a cargo of redwood deals and battens by auction at Howden Dock; there were very few buyers, and in consequence the bidding was lacking in spirit. The cargo was cleared at about £3 5s., £7 5s., and £6 5s. for mixed 3rd and 4th deals; battens at £6 5s., £6, and about £5 10s. Not being a first-class parcel the prices must not be accepted as an indication of possible values.

Trade is still very quiet; the housebuilding, vhich has hitherto been very active, is showing signs of slackening, and on all hands the indications point to a very quite winter trade.

#### RAFTS ARRIVED.

The Quebec Chronicle has the following list of rafts arrived : Sept. 15 .- Collins Bay Co., pine, &c., Sillery

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

Collins Bay Co., oak, Ottawa cove. John R. McRae & Co., staves, St. Michael's Sept. 17 .- Collins Bay Co., staves, Bowen's

(Sillery).
Thos. Buck, elm, &c., Ottawa cove.

John McRae & Co., staves, St. Michael's

Sept. 18.—Price, Bros & Co., spruce deals, Lako St. Joseph.

#### QUEBEO CULLERS' OFFICE.

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

mountain and an		~•	
Wancy White Pine	1882. 2,135,250	1883. 2,670,900	1884. 1,749,647
White Pino	7,023,350	3,057,814	3,241,033
Red Pine	1,328,803	253,012	208,433
Oak	1,015,525	1,151,280	626,550
Elm	566,470	217,716	C\$4,073
Ash	243,518	153,677	377,105
Basswood	1,273	1,859	8,992
Butternut	2,585	989	1,121
Tamarac	8,234	4,614	18,768
Birch & Maple	263,812	137,249	195,176
Masts & Bowsprits	33pcs	pcs	-pes
Spars	51 pcs	— pcs	41 pcs
Std. Staves	815,0.3.25	509.5.2.10	88.1.2.25
W. I. Staves	1041.0.0.19	449,1.2.0	78,0.0,2
Brl. Staves	42.8.1.17	87.1.1.27	0.6,2,13
	.TA3	FS PATTO	N.

Supervisor of Cullers Quebec, Sept. 19.

An elm tree has been removed from Mr. Halo's estate at Alderley, Gloucester, 40 feet long and having a girth of 35 in., or nearly 4 yards in circumference, the weight being about 15 tons. It was sold in the early part of the the whole matter of forests under their carnest | year, at the timber sale of the estate.

## ST. CATHARINES SAW WORKS!



MANUFACTURERS OF EVERY DESCRIPTION OF

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

## WILL PAY

## TO SUBSCRIBE

FOR THE

# Canada Lumberman

#### ANOTHER USE FOR SAWDUST.

Forest and Stream, a sporting journal, after referring to the very injurious effects which follow the depositing of saw dust in streams,

When urged to burn, or in some other way dispose of their sawdust, lumbermen have objected that they could not afford the cost. There is hope that the proplexing problem of dealing with this nuisance may now be solved, for a process has been discovered by which the refuse sawdust may be made to yield a handsome profit. When dry it is carbonized in iron retorts, and in the process there is given off 80 per cent. of volatile products, the remaining 20 per cent. being granulated charcoal, which can be used in making gun powder, filters, lining refrigerators, and as a disinfectant, and with a little tar it could be pressed into bricks and used for fuel; 22 of the 80 per cent. of the volatile product are in the form of fixed gases, which can be used for heating, lighting, etc.; 47 per cent. is pyroligenous acid, which is crude acetic acid, and after being purified and concentrated is used in white lead, color, print and vinegar manufacturies.

There remain 10 per cent. of tar and one of wood alcohol. The tar has the same properties as coal tar, the almost endless uses of which. such as pitching roofs, lining water tanks, covering the bottom of vessels, protecting iron naphtha, carbolic and sulphuric acids, and the mothods of work.

whole splendid series of anilihe dyes, constitute one of the chief glories of modern chemistry. The wood or methylic alcohol is used as a solvent for gums in varnish making, in the manufacture of aniline colors. The sawdust from yellow pine and other woods rich in resin yields also a considerable amount of turpentine, in the gathering of which so many trees are every year sacrificed. It is estimated that in sawing inch boards of pine, hemlock, etc., the one-fourth inch saw-kerf uses up one-fifth of the log. When lumber is sawed by the billion feet, one can easily see that the question of disposing of the sawdust in a way to yield a profit, instead of a first-class nuisance, is a very important one."

#### A Great Fire

CHARDON, Ohio, Sept. 20. - A disastrous fire has been raging for forty-eight hours in the woods, about two miles from this place. Nearly 160 acres of valuable woodland have been burned. The flames have invaded the vast swamp of several hundred acres. Notwithstanding the effort to check their progress the flames continue to make great headway. The fire department of this place is on the way to the

THE evening session of the Forestry Congress at Saratoga, on Sept. 27th, began with a paper by J. K. Ward, of Montreal, on "Lumbering from rusting, covering the wounds made in in Canada," giving a history of the business pruning trees, and in the form of benzole, here, with a comparison of former and present

## HOPE FOR THE

DEAF

Our Improved Artificia Far Drums cure Desiness in all stages. Recommended by men of Europe and America. Write for illustrative descriptive book and testimonials from doctor ministers, and prominent men and women who have been cured, and who take pleasure in recontinuous. They are unseen while in use, comfor. Is to wear, and make a permanent cure. Addn. NICHOLSON, 7 Murray St., New York.



Is the Best and Most Economical article in use for raising all kinds of Biscult, Rolls, Pancakes, Johnny Cakes, &c. It is made from the BEST MATERIALS MONEY CAN BUY, and is perfectly pure and wholesome. Bread ready for the table can be prepared by its means in TWENTY MINUTES after wetting the flour. £2"Noxt to sait it is the most useful adjunct to camp supplies.

## McLaren's Cook's Friend

IS THE ONLY GENUINE, BE SURE YOU PURCHASE NO OTHER, 19115

SECOND HAND.

One 50 Horse-power Engine. One Pr. 35 (COUPLED) One 16 One 10 One 4 Boilers, 4 to 25 Horse-power. Steam Pumps, Drills, &c.

625 Feet Wire Rope.

Colquhoun, Drummond & Co. 45 Common Street, MONTREAL

(2) in AT A VERY LOW PRICE.)

#### PULP MADE OF MILL REFUSE.

The Troy, N. Y., Times has the following description of the machine which reduces sawdust to pulp :-

"For several months past a machine has been under construction for the manufacture of paper pulp from sawdust and other refuse from saw mills. An experimental machine was completed some time ago. Sawdust, bits of lath shavings, and refuse known as "driftwood" were converted into pulp in a very short time, the product being equal to any pulp manufactured. The working of the experimental machine was so satisfactory that the inventor found no difficulty in interesting others in the invention. The inventor having completed his machine, made pulp with it to his satisfaction the first time it was tried. The machine is cylindrical in shape and stands on the end. It is 14 feet and 4 inches in height and 6 feet and 2 inches in diameter in the clear. The gearing is on top of the cylinder. The sav just is placed inside the cylinder-1,600 pounds being the charge and it is reduced to pulp by rollers travelling around the inner surface of the cylinder, the principle being the same as a wagon rolling over a plank road or the chewing of a piece of wood. These rollers are two hundred in number and attached to the shaft hang on to what is known as a step at the top of the machine, the rollers, shafts, etc., making a total of 20,600 pounds hanging from the stop. This apparatus presents a novelty in mechanism, the like of which was nover seen before. The entire machine weight 68,200 pounds; 15 horse power will operate the machine perfectly, and the steam pressure required is from 60 to 80 pounds. About three hours's time will convert a charge of 1,600 pounds of sawdust into pulp, the product being 1,200 pounds. A Times representative was present when the machine was in operation, and examined the pulp after having been taken from the machine. It showed a fine, long fibre, and a person could hardly believe, without witnessing the operation, that it had been made from sawdust. The patentee has an apparatus for bleaching the pulp. The product is cleaned automatically as it leaves the machine and is carried direct to the bleacher, where it is rendered as white as snow at an expense not exceeding 50 cents per ton. The invention will work a revolution in paper manufacture. His experiments show that a fine quality of letter paper, as well as book, news, and wrapping stock can be made from the products of the machine direct, thus doing away with the expense of beating engine and other ponderous machinery common to paper mills. It has already produced writing paper in a variety of shades, as well as all other grades capable of being manufactured from rags, jute, straw, or any other material, and his productions are in every way equal. As the raw material can be had for the carting, the manufacture of paper from sawdust pulp effects a wonderful saving.

#### STRENGTH OF MATERIALS.

With heavy timbers in positions where absoluto strength is the primary motive, it often happens that it is optional with the builder whether he put in a single timber of one piece or a number of pieces the aggregate of which would be as large as the single timber, the great question being whether four pieces one square will bear a greater or less weight than one solid stick four feet square, each being of the same variety of wood and alike in all other

respects.

Before a question of this kind can be answer ed in a manner to suit all contingencies, it becomes very important that the nature of the strain be fully understood. If the slight movement of the ends incident to the bowed condition be admissible, why it is reasonable to suppose that the four pieces would bend more without breaking, inasinuch as the moment a piece of timber is subjected to any influence causing it to assume any shape than the original, the molecular construction and cellular combination it disturbed; hence if we bend, forcibly, the timber four foot square a fraction out of line, the grains as the lower side are made to ornand, at the upper become shorter, and as it is out of the question to contract vegetable matter without disturbance of some kind, this

either by fereibly tearing one layer from another and allowing each one to bend of itself to accommodate the inequalities, else the entire upper half will be composed of a series of wrinkles and the tension characteristic of the timber permanently and effectually destroyed. At the centre of the timber, the pressure being counterbalanced from above and below, the particles will be found inert; thus we have with the solid timber three forces of an unequal character, all acting in unison to restore an eqilibrium, which, when accomplished, breaks the timber. If we measure the ends of the solid timber while the pressure is in full force, we will find them very uneven, or in the form of steps approaching the centre from below and receding from the centre above, and to do this it is but reasonable to conclude that these grains of wood must have slided past each other, of course materially effecting the power of resistance to pressure the timber oridinarily poss

osecd.
With the four timbers, each one foot in diameter, this difficulty is overcome in exact propertion as we have brought mechanical means to bear and separated these tissues in an artificial manner. Now, if we apply the same pressure, though the four timbers may bend further than the solid stick with the same pressure, at the same time it has not lost its power of restoration and will stand repeated pressure much longer, and by examination we will find the same inequalities apparent at the ends, but more ovenly divided, the greatest disparity being at the points of contact with the different sticks.

Again, timber sawn in two and the sides reversed will bear a greater pressure and resist it longer than the solid piece, for the simple reason that when these inequalities of pressure are brought to bear we present a side for expansion containing a greater degree of clasticity, and the portions to contract, or that side within the are when bent, being nearer the centre of the tree, is more compact and solid, hence the wrinkling tendency is overcome in a measure. We shall have more to say of this at another time, awaiting, as we are, the results of some tests. - Lumber Trade Journal.

#### GREEN AND SEASONED TIMBER.

The question of using properly seasoned lumber is one of importance. The National Car Builder publishes the following on the use seasoned lumber in car building:

"In the building of freight care, one of the worst things car builders have to contend against is the difficulty of getting dry lumber of the proper dimensions for the various parts. There are few railway companies whose roads do not run through coal regions, that are willing to carry a stock of lumber sufficiently large to admit of its being properly seasoned before boing used. Many roads that build cars in comparatively small lots, get their lumber in the open market and do not attempt to season it. The results of using green or half-seasoned lumber are strikingly visible in repair yards, where old cars show the extent of the shrinking of the timber with which they were constructed. In contract work, poorly seasoned stuff is the rule and well seasoned the exception, and the same is true to a certain extent of the road shops, but it is not the shops, as such, but those who run them, who are at fault. Many a socalled contract shop has sent out cars with oak sills almost fresh enough from the stump to sprout if it had not been for a coat of paint. when well seasoned oak that had been cut three or for years was lying in the lumber yard and could have been used without any increase of

In such cases it may be said that the dimensions of the timber may have had something to do with it. Seasoned oak for freight car bolsters has been rejected at contract shops, in one instance at least, because the size was one-fourth of an inch smaller than what was required by the specifications, and green timber used in its stead. In road shops also, when dry stuff on hand varies a trifle from the required dimensions, it is not used because the size does not conform to "our standard" Now, it sooms to us that the exact dimensions of car timber are not of such vital importance as some builders shortening of the upper portion is accomplished are inclined to believe. The variation of one half inch in the thickness of a body bolster, or of one and one-half or two inches in width, is not of much account as compared with the differenc between dry and green timber as it effects the service and life of a car. A dry end sill. for example, that is an inch smaller than the specification, is vastly to be preferred to a green one of full size. Considering the losening of bolts, opening of joints and consequent ponetration of moisture into the structure, very fow car builders will be likely to question

this.
In view of the evils to which I have referred, it is a question whether it is not possible to agree upon and establish certain sizes of merchantable car lumber that would be recognized as standard sizes to be used for sills, posts, bolsters, braces, etc., and accorted in all contracts for construction. The results of such a system would not be very arrarent perhaps at the start, nor are the advantages that would accrue so obvious as to make some mention of them out of place. The standard sizes once adopted, lumber manufacturers would feel safe in sawing stock to size and holding it to become seasoned and the general market would be supplied with a larger quantity of seasoned stock from which the roads could draw for car work and thus be relieved from the necessity of carrying very large stocks themselves. So far as such a system would tend to increase the durability of freight cars and lessen the aggregate of repairs, it would be a boon to the roads, and enable builders to turn out more satisfactory work for the same prices. Most of the car building establishments would be willing to keep on hand large quantities of dry lumber if they could be sure of working it off without the waste of cutting it to a diversity of sizes for the same parts of a car. Under such an arrangement it would be possible for a road to get out 500 cars, more or less, at the shortest notice, and built of good material so far as the timber is concerned.

The suggestion of merchantable sizes for car timber may be considered as somewhat visionary by those who are looking for 'standard' freight car, or cars, within the next twelve months. But if such a standard or standards shall reach the climax of consummation within the period named, the event, instead of weakoning will strengthen the suggestion.

#### THE STRUCTURE OF TIMBER TREES.

Regarding the structure of timber trees, Mr. Mr. Percy Russell, a well-known English botanist, writes :- The structure of all bodies. more especially organised bodies, is always marvellous, and it is especially so in regard to vegetable productions. I know that the numerical wonders of the starry heavens, the overwhelming yet matter of fact stories of the stars whose light has not yet reached us, produce generally more impression on most minds than the less known wonders of the botanical universe, and this really because the anatomy of plants is less popularized than that of the heavens. Let us consider for a moment that vonderful structure, a full-grown oak. First, the substance of all plants consists of cells or vessels, separate or in unison. Celt is added to cell, and vessel to vessel by the natural process

of the vitalizing sap, and by means of continual accretion and the exercise of a silent, very gentle, but stupendous energy—if we rightly estimate its final results—the tree is built up, one of the most wonderful of building, and, properly studied, far surpassing in detail the elaboration of any structure due along to human hands. Technically, the cellular substance of plants may be described as a series of cavities, formed of membrane, and in vacular plants we find the lines of cells at right angles to the vessels. The shape varies, but is, I believe, most generally hexagonal. Each cell has a very thin coat, and those coats or partitions appear endowed with a power at once of secreting and absorbing substances, and in brief, each of these minute chambers may be fairly likened to laboratories wherein are produced with absolute precision, the faring gums, oils, acids, resin, sugar, and coloring matters which go to constitute the various distinctive parts of the tree. Cork contains very minute cells indeed, as many as 1,200,000 have been counted in a cubic inch, and yet these inconceivable fine points, so to speak, secrete the suberic acid. It is not my purpose here to touch on the controversy as to the way in which these cells are formed originally. They are certainly in plants anterior to the vessels, and these again add collular substance. The cells become indurated and, indeed, almost obliterated in the wood, and the hardness of the best timber is due in fact to the degree in which these cells have been compressed. Now the fibrous part of plants is composed of vascular substance, and there is reason for believing that in no cases are these threads, but always tubes. Louwenhock, the famous microscopical observer, calculated that in an oak hole but four inches in diameter, there would be 200,000,000 of these vessels, and in Damory's oak near Blandford, Dorsetshire, there would be in one section of the trunk. which was when cut down, eighty-four feet in circumference, no fewer than 1,441,200,000,000 of these vessels. To bring the matter home to the understanding, the vessels in one foot length of this gigantic oak, if extended end to eud, would stretch away inrough the stellar universe for 240,000,000 of miles !"

#### Wooden Houses for the Congo.

SEVERAL hundred small frame houses are now building in Belgium for use at Vivi and other stations established by Stanley along the Congo. As Stanley possessed no facilities for taking lumber, his European assistants were compelled to live in tents or huts, and the discomfort of living in that way added largely to the sick list. The International Association is building at Boma, ninety miles above the mouth of Congo, a sanitarium, to which it proposes to send its invalid agents for treatment. Better facilities for preserving healthand caring for the sick are among the innevations to be introduced on the

#### Forest Fires in Michigan.

DETROIT, Sept. 15 .- Forest fires are raging again in the townships of Kimbal, Fort Gratiot, and Port Huron, Huron county. In the latter they are within sight of the city of Port Huron. No buildings are reported burned as yet.

#### LIVERPOOL STOCKS.

We take from the Timber Trades Journal the following Comparative Table showing Stock of Timber and Deals in Liverpool on Sapt. 1st, 1883 and 1884, and also the Consumption for the month of Aug. 1883 and 1884 :-

Stock, Sept. 1st.   Stock, Sopt. 1st.   for the month of for the month of Aug., 1883.   Aug., 1883	7				Consumption	Consumption
1885   1884   Aug.,1885   Aug.,1885   Aug.,1885   Aug.,1886	۸Ì	St	ock, Sept. 1st.	Stock, Sopt. 1st.	for the month of	for the month of
Quebeo Squars Pino.   435,000 ft.   424,000 ft.   309,000 ft.	ĭ			1884.	Aun 1883.	
Wanoy Board	1					
Wanoy Board	εl	Ouebee Square Pine	485,000 ft.	424,000 ft.	440 000 44	
St. John Pine   12,000 "   19,000 "   45,000 "   19,000 "	٠,				\$\$9,000 IC.	809,000 IL.
College Ports Pine.   62,000   29,000   45,000   12,000	- {	St. John Pinc	12,000 "		8.000 "	2.000 "
Red Pine.	١ ١	Other Ports Pine	62.000	69,000 **	45,000 **	
Pitch Pine, hewn	٠,				8.000 "	4,000 "
Sawn   480,000 " 477,000 " 290,000 " 120,000 "	٥Ì	Pitch Ping, hewn	858,000 **			
Planks	ŭ	" Sawn	480,000 **			
10	'n	Planks.	70,000	85,000 **		
b Sweden and Norway Fir. 17,000 " 67,000 " 1000 " 100000 " 10000 " 10000 " 10000 " 10000 " 10000 " 10000 " 10000 " 100	0 [	Dantzic, &c., Fir	110.000 **	60.000 "		
20,000   1	. [	Sweden and Norway Fir	17.000 **	67,000 **		
Y   Planks   109,000 "   211,000 "   61,000 "   119,	"	Oak, Canadian and American	351.000 "			
Birch	У	"Planks	199,000 **			
Elm	.	" Baltio	14,000 44	9.000 **		
Ash   25,000 "   43,000 "   13,000 "   7,000 "	٩I	Elm	89,000 **	44,000 41		21.000 **
Birch	n J		25,000 "			
East India Teak	. I	Birch	83,000 "			
t Greenheart		East India Teak	45,000 **	23,000 **		
N. B. & N. S. Spruco Deals   14,039 stds   22,421 stds   12,610 stds   0,366 stds   11,000   1,100   1,000	ŧΙ	Greenheart	105,000 **	54,000 **		
" inc " 335 " 1,100 " } 12,000 stas. 0,300 stas.  O Quebeo Pino & Spruco Deals. 7,000 " 7,805 " 4,280 " 2,500 " 1,030 " 704 " 1,030 " 1,030 " 704 " 1,030	٠,١	N. B. & N. S. Spruco Deals	14.039 stds.			•
0 Quebeo Pine & Spruce Deals . 7,000 " 7,805 " 4,880 " 2,500 " 701 " 7,815 II Raltie Red Deals, &c	٠,	" Pine '	835 ''	1,100 **	2,010 stas.	v,305 stas.
g lialtic Red Deals, &c	۱ ٥	Quebeo Pine & Spruce Deals.	7,000 "		4.280 "	2.596 **
I Raltic Roards 185 "   FO "   145 "   GO "	٩ł	Baltio Red Deals, &c	4,312 "			
0 1 " prepared Flooring 9 820 44 9 819 44 507 44 714 44	٦l	Raltic Roards	185 "	50 "		
- a brokering and confirmation and the state of the state	o į	" prepared Flooring	3,829 44	2,312 4	507 "	714 "

#### BUILDING TRADE IN ENGLAND.

Over-production of tenant houses is what now soems to trouble the writers in England. The Timber Trades Journal says in relation thereto: -The aspect of the building trade as it now presents itself is not of the satisfactory kind that we should like to witness, and the question of what will be the ultimate result of all the over-building that is now going on is already becoming one for serious consideration. The reports all tally in giving an immense incrosso of tonentless houses each succeeding scason, and landed property for which capitalists hung for so long, as affording them a certain field for investment, is rapidly lessing its value and house property, instead of offering good interest on the money expended, has become anything but safe security. In the metropoli-tan suburbs the over-building has reached a very critical stage, and what to do with all the houses not inhabited, and for which there is evidently no demand, it is by no means easy to determine. In the city of London things are little better, whose suits of offices of modern construction being unoccupied, and the number to let in the various commercial thoroughfares Queen Victoria and Cannon streets especially, are something to cause very grave reflections as to the possibility of a very serious collapse to this branch of trade.

## THE SHIPBUIDING TRADE ON THE WEAR.

The very small demand for manufactured and unmanufactured timber has been keenly felt by local merchants for the last twelve months, and the present revival, although exceedingly poor compared to the work usually turned out on the Wear, will be hailed with considerable satisfaction, especially by those merchants who make a speciality of shipbuilding wood goods. On the Wear the prospects of shipbuilding have somewhat improved. Three of the leading yards, Messrs. James Lang & Sons, Messrs. W. Doxford & Sons, and Messrs. R. Thompson & Sons, are fairly busy, and in these instances, although the press of work is not so great, the contracts are sufficiently important to admit of a large number of men being engaged. Messrs. Short Bros., who have been doing very little lately, have secured an order for a large steamer, the construction of which will be proceeded with at once. A rumour is current that this boat is on speculation, but we cannot say whether the report is correct. At least three firms on the river that have been almost at a standstill for some time are now about to lay down keels, and there is some hope that one or two other firms will be in a position to set their frame furnaces going shortly .- Timber Trades

#### QUEBEC CULLERS' OFFICE.

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

	1932.	1833.	1884.				
Waney White Pine	1,935,078	2,222,271	1,726,409				
White Pinc	0,524,244	4,829,897	3,020,783				
Rod Pino	1,118,533	350,328	278,641				
Oak	1,003,949	1,428,030	628,550				
Elm	562,822	802,626	644,073				
Ash	211,991	222,108	377,105				
Basswood	1,273	2,244	3,992				
Butternut	2,585	1,023	1,121				
Tamarao	8,234	5,038	19,730				
Birch & Maple	263,812	133,766	195,175				
Masta & Bowsprits	\$3pcs	—pcs	—pcs				
Spars	61 pcs	pcs	41 pcs				
Std. Staves	310,0.1.3	509.5.2.10	88.1.2.25				
W. I. Staves	962.7.1.8	649,1,2.9	78,0.0.2				
Brl. Staves	42.0.2.3	87.1.1.27	0.3.2.13				
	JAMES PATTON.						

Quebec, Sept. 12.

Supervisor of Cullers

#### Fire at Orillia

ORILLIA, Sept. 19. -At 11.30 last night a fire broke out in P. Madden's planing mill, which, despite the efforts of a number of citizens, soon enveloped the whole building in flames. A dwelling house adjoining next caught on fire, and from there it spread to the old lumber mill belonging to Andrew Tait, formerly the property of the Floss Lumbering Company, and in about half an hour \$3,000 worth of property was swept away. Mr. Tait's loss is estimated nt about \$4,000; insurance, \$2,000. Mr. Mad. den's less is about \$4,000; insurance not known. | horses.

## Chips.

THE Eagle furniture factory in Baltimore was burned September 11th. Loss, \$100,000.

THE Big Mill at Descronto, recently cut 633 logs in one day.

MR. JAMES H. TOTHAN, superintendent of the Big Mill, Deseronte, has invented a machino for sharpening circular saws.

A SHINGLE mill belonging to Mr. J. W. Taylor, Dummer, Ont., was burned on Sopt. Loss, \$600; insurance, \$400.

JOHN THURMAN, an employee in Connor's mill, Indianapolis, Ind., fell against the circular, September 3, and his body was cut in two.

AFTER the returns are all in, the losses by fire at Cleveland foot up 50,000,000 feet of lumber and 25,000,000 shingles.

THE capital of the Western Lumber Company, at Manistique, Mich., has been increased to 81,000,000.

Ir is announced by a Tawas paper that the logs to be held over at that point by one thm for next season's sawing amounts to 25,000,000

A gang of men at Tonawanda recently took 681,000 feet of lumber of the barge Boscobel in 71 hours; at least that is what is reported by the Tonawanda-papers. •

A saw mill belonging to D. W. Small at Cocolala, near Rathdrum, W. T., was burned together with 1,000,000 feet of lumber. The fire is supposed to have been incendiary.

Fine destroyed poplar and walnut lumber, valued at \$35,000, belonging to the Indiana Lumber Company in their yards at Nashville, Tenn., September 10. Insurance \$22,500.

MR. JAMES MOLARIEN, of Buckingham, purchased from Mr. McAllister, of Pembroke, ex tensive tracts of timber limits. The 1 paid paid is said to be in the vicinity of \$300,000.

T. E. & A. CRANE, of Oshkosh, Wis., have purchased pine land estimated capable of cutting 25,000,000 to 30,000,000 feet of pine tributary to the Milwaukee, Lake Shore & Western railroad, the timber being on Wolf river.

At three o'clock, the morning of September 5th, fire was discovered in the planing mill owned by John Roach, Rochester, N. Y. The mill and a quantity of lumber was destroyed. L. s, \$9,000, insurance \$7,000.

veral Michigan saw mills are proparing fine Norway logs for shipment by rail to New York, and thence to England by steamer. They will be used for rebuilding old docks and quays.

An extensive forest fire in Talbot county Md., after raging two days and nights, had burned over thousands of acres of woodland. The fire originated in the pine forest owned by Eugene Ross, at Medford's Wharf.

MR. W. F. YOWLER has secured the contract from the various lumberman interested, to drive about 3,000,000 feet offlogs, stranded at various points along the River betw on Woodstock and Grand Falls, says the St. John Telegraph.

NEARLY two million dollars' worth of lumber has been destroyed by fire during the past week. This should increase the demand somewhat. Much of this destruction occurred at points to which the Saginaw river is tributary. Lumberman's Gazette.

THE box and weodenware factory of Waspe & Loslier, on 'Clyde street, London, was destroyed by fire on September 11th. Loss on building, \$200, no insurance; loss on stock, \$800, fully covered by insurance in the Waterloo Mutual

A PERTH journal states that Mr. Peter McLaren received a cheque for \$120,000 in full of the judgment obtained by him against the Canada Central, now the C. P. R., for lumber burned in his yard at Carleton Place-\$100,000 for damages and \$20,000 for costs.

Mr. THOMAS PIGDEN, says the Deseronto Tribune, one of the foremen of the Big Mill, has made many changes during the season for the purpose of more speedily and effectively getting clear of the refuse, firewood, etc., and his department may well be considered a model one in that respect. By a lavish use of the hose he keeps down the dust and thus makes that section cool and comfortable for both men and

## H. WILLIAMS,

### SLATE & GRAVEL ROOFER

MANUFACTURER OF AND DEALER IN

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

H. WILLIAMS,

4 Adelaide Street East, Toronto

JUST PUBLISHED.

## STANDARD CUSTOMS TARIFF

Also contains List of Ports, Banks, Postal Rates, Interest Tables, Parcel Rates to England, Money Tables, &c., to be had from the Principal Booksellers and from the Publishers,

## RAE & WATSON, 22 Church Street, TORONTO.

## eagle foundry!

## **GEORGE BRUSH**

14 to 34 King and Queen Sts, MONTREAL,

Steam Engines, Steam Boilers, Hoisting Engines, Steam Pumps, OIROULAR SAW MILLS, BARK MILLS, SHINGLE MILLS, Water Wheels, Mill Gearing, Shafting, Hangers and Pullies,

Hand and Power Hoists for Warehouses &c., &c. Also, Sole Manufacturer of BLAKE'S CHALLENGE STONE BREAKER.

AND AGENT FOR 19221
"Water's" Perfect Steam Engine Governor, and "Heald & Sisco's" Centrifugal Pumps

#### HENDERSON BROS. LUMBER AND TIMBER.

Building & Bridge Timber Sawn to Order. Pine, Spruce and Hemlock Lumber by the Cargo.

235 Steam Saw Mills, Box Factory and Yards. -342 to 300 William St., and 180 St. Constant St., Montreal. Steam Saw Mills, L'Assomption, P.Q.

P. O. Box 804.

## PLANER KNIVES, Stave Cutter Jointing, Shingle do, Cheese Box, Veneer

Cutting, Paper Cutting, Leather Splitting, Moulding and Tenoning Knives. Send for Circular Price List.

PETER HAY, Galt.



(ESTABLISHED 1862.)

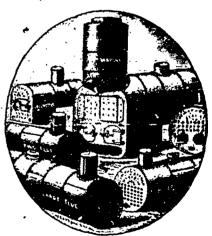
## CURRIE BOILER WORKS

## Steam Boilers

**NEW and SECOND HAND ENGINES** 

## JOHN McGREGOR & SONS

Manufacturers of all kinds of STATION-ARY, MARINE and LOCOMOTIVE



## BOILERS

And SHEET IRON WORK.

SECOND-HAND MACHINERY Bought, Sold or taken in exchange for new work. ZTREPAIRS PROMPTLY ATTENDED TO. All Boilers Tested by cold water pressure to 150 pounds to the square inch.

DOCK and WORKS :-

Sandwich Street, Windsor, Ont.

NEW and SECOND HAND ENGINES
and other Machinery on hand and for Sale.

CURRIE, MARTIN & Co.

Esplanade, Foot of Frederick Street, TORONTO.

22'y

Solutoly sure. No risk. Capital not roughly soluted by the solutoly sure. No risk. Capital not roughly soluted by the solutoly sure. No risk. Capital not roughly. The work is universally adapted to both sexes, young and old. You can easily carn from 60 conts to solutely sure. No risk. Capital not roughly. The work is universally adapted to both sexes, young and old. You can easily carn from 60 conts to solutely sure. No risk. Capital not roughly. The work is universally adapted to both sexes, young and old. You can easily carn from 60 conts to solutely sure. That all who want work may tost the business we make this upparalleled offer; to all the business we make this upparalleled offer; to all the two which persons of either sex, young or old, can make great pay all the time they work, with absolute ortainity, write for particulars to H. Hallwar & Gmd145-lyw

Prince A. Co., Augusta, Maine.

## Market Beports.

#### TORONTO.

#### Prom Our Own Correspondent

SETT. 24.—Our citizens have had their attention diverted from their legitimate business during the last two weeks. Industrial exhibition on the brain has affected most of our population more or less, so that our yard men and wood Morkers with many other branches of trade, have been nearly idle during that time, and I can say but little to interest your readers. There is said to be considerable cutting on prices for small bills amongst our retailers. I cannot vouch for the truth of many of the reports es to prices. I have heard, however, of short bill stuff with boards for covering in, and material for working into flooring, having been furnished as low as \$10.50 per M all over. If this is correct, and I have it from what I con sider a reliable scurce, I leave your readers to judge what must have been the figures paid at the mill. This paring down so low on small orders is a foolish policy, fair and romunerative prices might as well be obtained as not, and all dealers sell quite as much lumber.

Over our docks considerable lumber is moving off, and more of the coarse box than usual. The principal shippers operating at present are Messrs. Christie, Kerr & Co., S. C. Kanady & Co. and Messrs. Donogh & Oliver, the first named firm are shipping largely just now. Freights to Oswego remain at \$1.00 per M.

Mill cull	Mill cull boards and scantling							
Shipping	Shipping cull boards, promiscuous widths 12 00							
44	st	ocks		14 00				
Scantling	and jo	out, up	to 10 ft	13 60				
**	**	••	18 ft	14 50				
•	**	"		15 50				
••	**	**		10 60				
	••	**		17 00				
44	44	"		18 00				
44	**			19 00				
44	••	••		20 00				
44	**	44	32 [2	21 00				
44	**	**	3i ft	22 50(122 50				
••	**	**	3615	24 00				
••	**	**	S\$1t	27 00				
**	**			\$0 00				
Cutting u	p plan	ks to dr	ÿ	24 00				
•••				20 (0				
Sound dro	gnies:	stocks.	• • • • • • • • • •	13 00				
Picks Am	. inspe	ction		23 00:(30 00)				
Three up	ners. A	Ini. Inst	ection	23 00,730 00 35 00/340 00				
	•	•	B. M.	•				
11.Inch fo	min-	dmeent		30 00				
1		much		16 00				
<b>ii</b> "	**	Ultream		25 00				
ii "	••	1111/1200	arrl	11 002(15 00				
†* ··	**			22 00				
1 "	**			10 00				
	Shooti			25 80				
Clapboarding, dressed								
Sawn Lath								
		•••••						
				. 1				

#### MONTREAL.

#### From Our Own Correspondent.

SETT. 25.—Usually after the exhibition here pretty fair trade has been done in lumber; this year, however, has, contrary to expectation been an exception, as merchants here say that had it not been for advertisements in the papers they would hardly have known that there was an exhibition in the city, as it had no effect on business, and trade still keeps very dull as far as our local market is concerned. General business, however, has been rather better but no change has taken place in quotation, which on the whole are well maintained for limited lots. We still quote ex yard as under:

Pinc, 1st quality, it M	83: 09:440 00					
Pine, Ist quality, it M Pine, 2nd W. W.M. Pine, shipping culls, & M	22 00-124 00					
Pine shipping culls, & M						
Pine, 4th quality deals, & M	10 00 112 00					
Pine, mill culls, VM	7 (2) (2) (3)					
Pine, mill culls, V M Spruce, V M	10 00 113 00					
Hemlock, & M	9 60 (to 00					
Ash, run of log culls out, 3' V	15 OG-r15 (4)					
Ash, run of log culls out, VVI	15 00-720 00					
('ak. 3) 11	40 00/30 00					
Walnut & M	69 to 100 00					
Cherry, 31 M	(0 00%5) 00					
Walnut & M Cherry, P M	24 00 455 00					
Birch, V M	20 00 125 00					
Birch, VII Hard Maple, VII	25 (0/3) (0					
iath, + 11	1 75-1 2 00					
Shingles, 1st, VM	30300					
Shingles, 2nd, 2 M	2604 0 00					
SHIPMENTS.						

Shipping has been wirly active for the post two weeks, and the demand for tennage has been good at the following rates: To Glasgow, 40a; Assumenth 40a to 45a; Liverpool, 40a to 45a; to the River Platte, 812,50 to 813,00. The latest charter to the Platte was the ship Republic, 843 tons, at \$12.50, for Buenos Ayres

hipmonts for the past two weeks: Bk. Felicia, for Buenes Ayres, 317,956 feet white pine boards; SS. Erl Ling, London, 7,833 pcz. deals; SS. Montreal, Liverpool, 4,893 pcs. deals, 5,830 pcs. boards, 6,281 sidings; SS. Cynthia, Glasgow, 6,000 ft. lumber; SS. Benona, Dublin, 320 bbl. shooks; Bk. Alexander Koith, Buenos Ayres, 524,196 ft. pine lum ber; Bk. Trity Smith, Buenos Ayres, 358,115 ft. pine lumber; SS. Bristol, Bristol, 342 pcs. deals; SS. Lake Huron, Liverpool, 6,100 pcs. deals; Bk. Oregon, Hull, 212 standards white pine deals; SS. Cladow, London, 17,211 pcs. pine deals, 1,372 ends; SS. Vancouver, Liverpool, 7,476 pcs. deals; 537 boards and 209 pcs. lumber; SS Castle Eden, Liverpool, 17,570 pcs. pine deals, 410 deal ends and 6,120 boards, also 10,000 ft. of lumber; Bk. Gaspo, River Platte, z07,000 ft. white pine.

#### cerdwood.

Trade is getting a little brisker as the season advances and prices keep steady, the supply at the wharves Loth rail and boat is good. We quote at the wharves ex cartage as follows:

 Long Maple
 \$ 0 00

 Long Birch
 5 50

 Long Boech
 5 00

 'Yamarack
 4 50

#### LIVERPOOL MARKETS.

Our latest report from Liverpool says that there has been a fair consump for Canadian goods, but says, at the same time, on this side would act wisely in restricting their shipments to that port as much as possible, as merchants seem determined not to increase their stocks of 2nd class and inferior goods, consequently goods of other than prime quality are difficult to sell, and very low prices have to be submitted to. Private sales of spruce deals from St. John, N. B., at £6 per standard, auction sales of the same averaged £6 2s. 6d.

#### ALBANY.

Quotations at the yards are	as follows :—
Pine, clear, & M	855 60@60 00
Pine, fourths	60 00(155 00

Fine, selects. 45 00€550 00 Pine, good box 22 00€33 00 Pine, common box 22 00€33 00 Pine, to him, plank, each 25 00€35 00 Pine, to him, plank, each 25 00€35 00 Pine, to him, plank, cach 25 00€35 00 Pine, 10-in, plank, culls, cach 25 00€35 00 Pine, 10-in, plank, culls, cach 25 00€35 00 Pine, 10-in, boards, 10-in 25 00€35 00 Pine, 10-in, boards, 10-in 25 00€35 00 Pine, 10-in, boards, 10-in 25 00€35 00 Pine, 11-in, boards, 10-in 25 00€35 00 Pine, 11-in, boards, 10-in 25 00€35 00 Pine, 11-in, siding, common 25 00€35 00 Pine, 11-in, siding, common 25 00€35 00 Pine, 1-in, siding, solect. 42 00€45 00 Pine, 1-in, siding, solect. 42 00€45 00 Pine, 1-in, siding, solect. 42 00€45 00 Pine, 1-in, siding, solect. 42 00€35 00 Pine, 1-in, siding, solect. 42 00€35 00 Pine, 1-in, siding, solect. 40 00€35 00 Pine, 1-in, siding, solet. 40 00€35 00 Pine, 1-i
Pinc, common box. 13 00,415 00 Pinc, 10-in. plank, cach. 00 42,000 42 Pinc, 10-in. plank, culls, cach. 00 23,000 23 Pinc toards, 10-in. 00 25,000 23 Pinc toards, 10-in. 00 25,000 23 Pinc, 10-in. boards, culls. 00 10,002 Pinc, 10-in. boards, 10 ft., № 1 23 00,023 00 Pinc, 10-in. boards, 10 ft., № 1 23 00,032 00 Pinc, 12-in. boards, 13 ft. 23 00,000 00 Pinc, 12-in. boards, 13 ft. 23 00,000 00 Pinc, 12-in. siding, common. 29 00,000 00 Pinc, 1-in. siding, common. 29 00,000 00 Pinc, 1-in. siding, common. 29 00,000 00 Pinc, 1-in. siding, common. 15 00,018 00 Pinc, 1-in. siding, common. 15 00,018 00 Pinc, 1-in. siding, common. 15 00,018 00 Pinc, 1-in. siding, solect. 42 00,000 00 Pinc, 1-in. siding, common. 15 00,018 00 Pinc, 1-in. siding, common. 10 00,000 15 Pinc, 1-in. siding, solect. 00 00,000 15 Pinc, 1-in. siding, 214, cach. 00 00,000 15 Pin
Pinc, 10-lin, plank, each
Pine, 10-in. plank, culls, each. 00 23:00 22 Pine, Pine boards, 10-in. 00 13:000 22 Pine, Pine boards, 10-in. 00 13:000 21 Pine, 10-in. boards, 10 ft., № M. 23 00:03 20 Pine, 10-in. boards, 10 ft., № M. 23 00:03 20 Pine, 12-in. boards, 10 ft., № M. 23 00:00 00 Pine, 12-in. boards, 13 ft. 23 00:00 00 Pine, 11-in. siding, common. 20 00:00 00 Pine, 11-in. siding, common. 20 00:00 00 Pine, 11-in. siding, common. 15 00:418 00 Pine, 1-in. siding, common. 15 00:418 00 Pine, 1-in. siding, common. 15 00:418 00 Spruce, boards, each. 00 00:00 10 Spruce, boards, each. 00 00:
Pinc, 10-in. plank, culls, each. 00 23(00 22 Pinc boards, 10-in. 00 23(00 22 Pinc, 10-in. 10-in. 00 23(00 22 Pinc, 10-in. 10-in. 00 10(00 21 Pinc, 10-in. boards, 10 ft., № M 22 00(432 00 Pinc, 10-in. boards, 10 ft., № M 23 00(432 00 Pinc, 12-in. boards, 10 ft., № M 23 00(432 00 Pinc, 12-in. boards, 13 ft. 23 00(00 00 Pinc, 11-in. idding, eolect. 40 00(433 00 Pinc, 11-in. siding, common. 20 00(00 00 Pinc, 11-in. siding, common. 20 00(00 00 Pinc, 11-in. siding, common. 15 00(418 00 Pinc, 1-in. siding, common. 15 00(418 00 Pinc, 1-in. siding, common. 15 00(418 00 Spruce, boards, each. 00 00(00 16 Spruce, plank, 12-in. each. 00 00(00 16 Spru
Pine boards, 10-in. 00 25(00 is Pine, 10-in. boards, culls. 00 16(00 2) Pine, 10-in. boards, 10 ft. № M. 23 00(432 00 Pine, 12-in. boards, 10 ft. 23 00(432 00 Pine, 12-in. boards, 13 ft. 23 00(432 00 Pine, 12-in. boards, 13 ft. 23 00(400 00 Pine, 13 in. siding, solect. 40 00(43 00 Pine, 13 in. siding, solect. 40 00(43 00 Pine, 14 in. siding, solect. 42 00(45 00 Pine, 14 in. siding, solect. 40 00(43 00 Pine, 14 in. siding, common 15 00(18 00 Spruce, plank, 14-in., each. 00 00(400 35 Spruce, plank, 14-in., each. 00 00(400 14 Hemlock, joist, 420, each. 00 00(400 14 Hemlock, joist, 420, each. 00 00(400 14 Hemlock, wall strips, 2x4, each. 00 00(400 00 Hack walnut, § linch. 00 00(400 00 Hack
Pinc, 10-in. boards, colls. 00 164600 21 Pinc, 10-in. boards, 16 ft. \$ M 23 004632 00 Pinc, 12-in. boards, 16 ft. \$ M 23 004632 00 Pinc, 12-in. boards, 16 ft. 23 004620 00 Pinc, 12-in. boards, 13 ft. 23 004600 00 Pinc, 13-in. boards, 13 ft. 23 004600 00 Pinc, 13-in. siding, common 20 00460 00 Pinc, 13-in. siding, common 15 00418 00 Pinc, 13-in. siding, common 15 00418 00 Pinc, inch siding, common 10 00400 00 Pinc, inch siding, common 15 00418 00 Pinc, inch siding, common 10 00400 00 Pinc, inch siding, common 10 00400 00 Pinc, inch inch 10 004600 00 Pinc, inch 10 00400 00 Pinc, inch 20 00400 00 Pinch 2
Pine, 10-in. boards, 16 ft., \$\frac{M}{2}\$ 306432 00 Pine, 12-in. boards, 16 ft. 23 00632 00 Pine, 12-in. boards, 16 ft. 23 00630 00 Pine, 12-in. boards, 16 ft. 23 00630 00 Pine, 12-in. siding, select 40 00643 00 Pine, 13-in. siding, common 20 00600 00 Pine, 1-in. siding, common 20 00600 00 Pine, 1-in. siding, common 15 00618 00 00600 10 Pine, 1-in. siding, common 10 00600 10 Pine, 1-in. siding, code. 00 00600 10 Pine, 1-in. siding, code. 00 00600 11 Pinellock, joist, 4v0, ench 00 00600 11 Pinellock, vall strips, 2v4, each 00 00600 11 Pinellock, vall strips, 2v4, each 00 00600 11 Pinellock, joist, 4v0, ench 00 00600 11 Pinellock, vall strips, 2v4, each 00 00600 11 Pinellock, vall s
Pinc, 12-in. boards, 10ft.
Pinc, 12-in. boards, 13ff. 23 00000 00 Pinc, 13-in. siding, solect 40 00043 00 Pinc, 13-in. siding, common 20 00000 00 Pinc, 14-in. siding, common 20 00000 00 Pinc, 1-in. siding, solect. 42 00043 00 Pinc, 1-in. siding, solect. 15 000418 00 Pinc, 1-in. siding, solect. 10 00000 16 Pinc, 1-in. solect. 10 00000 16 Pinc, 1-in. 10 00000 16 Pinc, 1-in. 10 00000 16 Pinc, 1-in. 10 000000 16 Pinc, 1-in. 10 00000 16 Pinc, 1-in. 10 00
Fine, 14 in. siding, solect 40 00c43 00 Pine, 14 in. siding, common 20 00c400 00 Pine, 14 in. siding, common 20 00c400 00 Pine, 14 in. siding, common 15 00c418 00 Pine, 16 in. siding, common 15 00c418 00 Spruce, loants, cach 00 00c400 20 Spruce, loants, 2 in. cach 00 00c400 20 Spruce, plank, 14 in., cach 00 00c400 20 Spruce, plank, 24 in. cach 00 12c400 12 Hiemlock, loants, cach 00 12c400 12 Hiemlock, loants, cach 00 00c400 33 Hiemlock, joist, 4x0, each 00 00c400 34 Hiemlock, joist, 4x0, each 00 00c400 14 Hiemlock, joist, 2x4, cach 00 00c400 14 Hiemlock, wall strips, 2x4, cach 00 00c400 18 Hiemlock, wall strips, 2x4, cach 00 00c400  00c400 00c4000 00
Pine, 14-in. siding, common
Pine, I-in. siding, soloct
Pine, inch idding, common 15 00¢418 00 Spruce, boards, each 00 00¢00 10 Spruce, plank, 1½-in., each 00 00¢00 12 Hemlock, boards, each 00 00¢00 13 Hemlock, joist, 4×0, each 00 00¢00 14 Hemlock, joist, 4×0, each 00 00¢00 14 Hemlock, joist, 2½×1, each 00 00¢00 11 Hemlock, wall strips, 2×4, each 00 00¢00 11 Black walnut, gook, ½ M 100 €120 00 Black walnut, gook, ½ M 100 €120 00 Black walnut, gook, ½ M 100 €120 00 Seavmore, 1·inch 30 00¢12 00 White wood, 1·inch and thicker 32 00¢12 00 White wood, 1·inch and thicker 32 00¢12 00 White wood, 1·inch and thicker 32 00¢12 00 Ash, rood, ½ M 40 00¢13 00 00¢12 00 Ash, rood, ½ M 40 00¢13 00 00¢12 00 Cherry, good, ¾ M 40 00¢13 00 00¢12 00 Cherry, good, ¾ M 40 00¢13 00 00¢12 00 Mak, good, ¼ M 40 00¢13 00 00¢12 00 Mak, good, ¼ M 40 00¢13 00 00¢12 00 Mak, good, ¼ M 40 00¢13 00 00¢12 00 Mapic, Canada, ¼ M 20 00¢2 00 Mapic, American, per M 20 00¢2 00 00¢12 00 Mapic, American, per M 20 00¢3 00 00¢12 00 000¢12 00 00¢12 0
Spruce, boards, each. 00 00600 16 Spruce, plank, 13-in, each. 00 00600 20 Spruce, plank, 13-in, each. 00 00600 20 Spruce, plank, 23-in, each. 00 10600 20 Spruce, wall strips, each. 00 10600 20 Spruce, wall strips, each. 00 10600 20 Hlemlock, boards, each. 00 00600 14 Hemlock, joist, 4x0, ench. 00 00600 14 Hemlock, joist, 2x4, each. 00 00600 11 Hlemlock, vall strips, 2x4, each. 00 00600 11 Black walnut, glock, 241 100 (9120 00 Black walnut, glock, 241 100 (9120 00 Black walnut, gloch. 80 00690 00 Black walnut, gloch. 80 006
Spruce, plant, 2-in, each 00 00402 S0 Spruce, plant, 2-in, each 00 12400 12 Spruce, plant, 2-in, each 00 12400 12 Spruce, wall strips, each 00 00400 14 Hemlock, joist, 4x0, each 00 00400 33 Hemlock, joist, 2x4, each 00 00400 11 Black walnut, gook, 2 M. 100 (2120 00 Black walnut, gook, 2 M. 100 (2120 00 Black walnut, 2 inch 30 00452 00 00485 00 Scaymore, 1-inch 30 00452 00 00485 0
Spruce, plant, 2-in, each 00 00402 S0 Spruce, plant, 2-in, each 00 12400 12 Spruce, plant, 2-in, each 00 12400 12 Spruce, wall strips, each 00 00400 14 Hemlock, joist, 4x0, each 00 00400 33 Hemlock, joist, 2x4, each 00 00400 11 Black walnut, gook, 2 M. 100 (2120 00 Black walnut, gook, 2 M. 100 (2120 00 Black walnut, 2 inch 30 00452 00 00485 00 Scaymore, 1-inch 30 00452 00 00485 0
Sprivec, wall strips, each. 00 126700 12 illemiock, boards, each. 00 006700 14 illemiock, boards, each. 00 006700 14 illemiock, boards, each. 00 006700 33 illemiock, joist, 424, each. 00 006700 14 illemiock, wall strips, 2x4, each. 00 006700 14 illemiock, wall strips, 2x4, each. 00 006700 18 illed walnut, \$100, 12 illed 10 00 00685 00 006700 10 illed walnut, \$100, 10 illed 10 00 00685 00
Hemlock, boards, each
Hemlock, joist, 4x6, exch
Hemlock, jolst, 2 x4, each
Hemlook, wall strips, 224, each
Black walnut, gook, \( \text{VM} \)   100 (fi 120 00     Black walnut, \( \text{gluch} \)   80 00000 00     Black walnut, \( \text{gluch} \)   100 (of 120 00     Black walnut, \( \text{gluch} \)   100 0000000     Scaymore, \( \text{gluch} \)   100 0000000     Scaymore, \( \text{gluch} \)   100 000000     Scaymore, \( \text{gluch} \)   100 000000     White wood, \( \text{gluch} \)   100 000000     Ash, sood, \( \text{gluch} \)   100 000000     Cherry, good, \( \text{gluch} \)   100 000000     Cherry, common, \( \text{gluch} \)   100 00000     Cherry, common, \( \text{gluch} \)   100 00000     Olak, good, \( \text{gluch} \)   100 000000     Olak, good, \( \text{gluch} \)   100 00000     Olak, good, \( g
Black waluut, g linch.   50 00,790 00     Black waluut, g linch.   00 00,485 00     Scaymore, 1-inch.   30 00,432 00     Scaymore, 1-inch.   30 00,432 00     Scaymore, 1-inch.   30 00,432 00     White wood, 1-inch and thicker   30 00,432 00     White wood, g linch.   30 00,432 00     Ash, rood, g M
Black walnut,   Inch.
Scaymore, 1-inch
White wood, I-inch and thicker. \$3 00,43 00 white wood, I-inch and thicker. \$0 00,432 00 Ash, good, I-inch \$0 00,432 00 Ash, good, I-inch \$1 00,432 00 Ash, good, I-inch \$2 00,430 00 Cherry, good, I-inch \$2 00,430 00 Cherry, common, I-inch \$2 00,430 00 Cherry, I-inch \$3 00,440 00 Cherry, I-inch
White wood, I-inch and thicker. \$3 00,43 00 white wood, I-inch and thicker. \$0 00,432 00 Ash, good, I-inch \$0 00,432 00 Ash, good, I-inch \$1 00,432 00 Ash, good, I-inch \$2 00,430 00 Cherry, good, I-inch \$2 00,430 00 Cherry, common, I-inch \$2 00,430 00 Cherry, I-inch \$3 00,440 00 Cherry, I-inch
White wood, §-inch
Dak, good, y M 40 00.433 00 Dak, good, y M 40 00.433 00 Dak, good quality, y M 20 00.425 00 Basawood, y M 25 00.433 00 Hickory, y M 40 00.440 00 Maple, Canala, y M 25 00.432 00 Maple, American, per M 25 00.422 00 Chestnut, y M 35 00.440 00 Shingles, shaved, pine, y M 00.04 0 50 "2nd quality 00.06 5 00 "2nd quality 10 00.65 5 00
Dak, good, y M 40 00.433 00 Dak, geond quality, V M 20 00.425 00 Basawood, y M 25 00.433 00 Blasawood, y M 25 00 B
Dak, good, y M 40 00.433 00 Dak, geond quality, V M 20 00.425 00 Basawood, y M 25 00.433 00 Blasawood, y M 25 00 B
Dak, good, y M 40 00.433 00 Dak, geond quality, V M 20 00.425 00 Basawood, y M 25 00.433 00 Blasawood, y M 25 00 B
Shingles, shaved, pine, >> 11 0 00% 6 50 0 00% 6 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shingles, shaved, pine, >> 11 0 00% 6 50 0 00% 6 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shingles, shaved, pine, >> 11 0 00% 6 50 0 00% 6 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shingles, shaved, pine, >> 11 0 00% 6 50 0 00% 6 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shingles, shaved, pine, >> 11 0 00% 6 50 0 00% 6 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shingles, shaved, pine, >> 11 0 00% 6 50 0 00% 6 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shingles, shaved, pine, >> 11 0 00% 6 50 0 00% 6 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shingles, shaved, pine, WM 0 00% 6 50 2nd quality 0 00% 5 00 000 5 00 00% 5 00 00 00% 5 00 00 00% 5 00 00 00% 5 00 00 00% 5 00 00 00 00 00 00 00 00 00 00 00 00 0
" 2nd quality 0 00% 5 00 oxtm, sawed, pine 4 50% 4 50
" extra, sawed, pine
" Clear " COAR & CO
" codar, mixed 0 00% 3 30
" cedar, XXX 0 00;5 2 00
** hemlock 0 00% 2 00 cath, hemlock, \$\mathfrak{Y} \mathfrak{Y} 0 00% 2 00
Ath,hemlock, <b>&gt; 1</b> 0 00@ 2 00 ath,epruce, " 0 00@ 2 25

#### OHICAGO AT THE DOCKS.

The Northwestern Lumberman of Sept. 20th says - The number of cargoes arrived in port for the week ended Wodnesday night was 175, as compared to 178 the week previous, so that although the week has been called a dull one as regards both arrivals in port and offerings on the market, business is by no means at a stand still.

Prices, on the whole, are very steady, considring the dragging condition of the market and the slow state of trade in the yards. The commission men say that this is owing to the fact that prices are as low as they can possibly be, unless there should be an utter break down and

that could only come of the financial collapse of the holders, which is not likely. If the mill men only take counsel of the overcrowded state of the general market, and limit their input of logs next winter, and their output of lumber from now onward, relief would, to some degree, be realized by next spring.

An increasingly large proportion of good inch lumber is arriving. Thick and wide lumber, classed as No. 1, is not selling are readily, nor for relatively as good prices as inch lumber or strips. The latter moves off rapidly, and brings good prices ranging from \$15 to \$20.

Shingles are not glutting the market as they did earlier in the season, and the low range of prices is fairly maintained.

Quotations are as follows :-

,	Piece stun, green				
	Long timber, green	.10	<b>00</b> @1	1	50
	Coarse common	9	000	9	50
	Boards and strips-No. 2 green	Ď	1004	ıi.	00
	Boards and strips Medium, green	11	000	iā	m
•	Donale Vo. 1 comes	75	M	ı Q	nn
	Titubde	13	40	34	×
•	High grade Shingles, standard	10	CECA.		~
•	Sningles, Standard	•	DOCE	•	2
	sningica, Unoloc		SU(G)		w
	Shingles, extra		90@	ž	20
)	Shingles, clear	_			80
١	Shingles, codar		500		
	Lath	1	25@	1	40
1	LAKE PREIGHTS.		_		
١.	<b>.</b>				
1	Grand Haven by steam		8 1	. 1	2}
ď	" " " 681]			2	5
٠,	Muskegon by steam		1	. 1	2}
1	Muskegon by steam		1	2	
i	Whitehall		ī		71
ì	Ludington			G	
	Manistoc.				2;
	Menominee dry		•	Ĭ	7.
1	4 grocn				žį
i					2
	Oconto			. 6	÷1
1	Cheboygan				
1	Alpena			7	
1	Bay City			0	
1	Tawas			0	
Ì	Frankfort		1	. 6	23
1	AT THE YARDS.				_
ı	III INE IMPS				

Trade is jogging along at a fair gate, so far as shipments are concerned, though there is nothing like the September rush that was expected. There are plenty of dealers that say that the trade is positively dull; others say that it is fair; a few claim that there has been a slight increase of orders during the past

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

	Lumber	r. Shingles.			
1894	53,988,000	27,500,000			
1853		62,830,000			
FROM JANUARY 1, 1884, TO 2	EPT. 18, 1884	INCLUSIVE.			
	RECEI	TS.			
	Lumber.	Shingles.			
1SS4					
1883	7,301,126,000	840.355,000			
Docreaso	10,787,000	218,077,000			
Lak — Weite Prox J					
Lumber	1	,192,800,000			
Shingles		.009.665.000			
Lath		45.175.000			
Posts		. 2.200.016			
Rallroad tics	• • • • • • • • • • • •	. 007.964			
Wood, cords		. 19,935			
Bark, cords Slabs, cords	* . *	20,632			
Slabs, cords	************	27,846			
Telegraph poles		122,830			
[1109	• • • • • • • • • • • • • • • • • • • •				
Spare		. 12			
STOCK ON HAND SEPT. 1.					
. 1884.	1883.	1882.			
Lumber & timber.607,163,629	676,334,049	550,800,533			
Shingles 352,092,208	371,285,090	220,800,750			
Lath 59,225,000	59,941,215	42 226 432			

#### BOSTON.

l'ickets..... 1,505,099 Codar posis. 453,009

The Journal of Commerce of Sept. 20 says General trade is moving along rather slowly, but there are some signs of business starting up soon. Spruce is moving moderately, but at weak prices. White pine is moving quite well and the best grades are held quite firmly. Southern pine is moving alightly better but at low prices. Walnut moves fairly well for choice descriptions. Ash is dull and low. Cherry and nak soll slowly at present. Whitewood remains very low.

## CANADA PINE

#### TONATTANDA.

CARGO LOTS-MICHIGAN INSPECTION.

#### OBWEGO, N.Y.

From Our Own Correspondent.

No change in prices or demand. Trade is very dull indeed and the prospect are that we shall not have the usual brisk trade we usually have during the fall months. 1], 1], 2 & thicker uppors..... \$42 00@46 00

1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		22.		~~
DICKIRGO	22	OUGS	33	w
Citting up	22	000	ಬ	00
" cutting up peckings		-		
pockings and better	82	000	34	00
I inch selected sidings	29			
13 " " " "	80	00%	35	ÓÜ
1 & I in. box	ĭŏ	000	ñ	ň
" " sidings, drossing and better	66	000	οĸ	m
1x10 in. 18 ft, dressings and better	õñ	000	٩ĸ	~
1 1 1 ablantus auto	14	200	ũ	**
shipping culls	7.5	0004	50	×
14 & 16 ft. dressings and better	20	OUCE	÷	ᄴ
1x10 in. 14 & 16 ft. ship culls	14	UUCE	10	w
1 (f tt description and letter	14	0000	ïĎ	w
drossings and botter	20	000	23	00
11 in strips selected	23	00@	25	00
1x <sup>1</sup> dressings	16	00(4	17	00
" culls	10	000	13	$\infty$
Ash				
1st & 2nd, 1 to 4 inch	18	00@	22	00
Culls " "	10	000	12	00
Datenad				
1st & 2nd 1 & 11 (neh		00/2	ያስ	M
1st & 2nd, 1 & 11 inch. Culis  Shinales.	ñ	000	ñ	m
Culis Shingles.	10	vio.	••	•
YTY Nan		25@		
XXX Pine				
**** A.3	÷	90@	ž	Ϋ́
XXX Codar	8	25(4)	ž	35
XX "	ī	50@	ž	œ
Lath 11 No. 1	2	00@		
16 No. 2	1	76G	0	00
BUFFALO.				

#### LIVERPOOL.

 Uppers
 \$15 00@46 00

 Common
 17 00@418 50

 Culls
 12 60@13 00

We quote cargo lots:-

The Timber Trades Journal of Sept. 13th says:—The number of vessels arriving with timber cargoes still keeps within moderate bounds, these being chiefly from Nova Scotia or New Brunswick with spruce deals, or from Norway with flooring. This moderation in imports is one of the few cheering aspects of the trade at present, and it is most devoutly to be hoped that it may continue so for some time to come, as it is only in this direction that we can look for relief from the depressed condition of the trade.

It is evidently hopeless to look for any improvement in the demand from the manufacturing district where the state of trade is reported to be still as listless and .aactive as ever, and it is only by a large curtailment of imports that the heavy stocks on hand can now be reduced to moderate limits by the time the next import season arrives.

There have not been any public sales during the past week, but one is announced.

#### LONDON.

The Timber Trades Journal of Sept. 13th, in its account of Messra. Churchill & Sim's sale, says:-Most of the pine submitted without reserve on Wednesday were oddments, and the parcel ex Lizzie Perry, from Quebec, lots 84 to 93 in the sole, had nothing, articular to recommend it, being rough and 1 ot dry, hence the prices obtained were quite as good as could be expected. The two lots of 13 feet ex Juliet, 3x11 in., also Quebec at £8 154 and £9, some what coarse but fairly dry, were undoubtedly cheap, and we question if the lucky purchaser could get any more at the price should be require The Rota parcel, of 7 to 10 in. 12 and them. 13 feet, described as bright, judging from appearance would pass very well for dry floated, were decided bargains at the prices paid for them and must leave a considerable loss on the original cost, having been held over since last year. The uncertainty appertaining to public salo values at the present time was never better exemplified than on the present occasion. Some St. John broad spruce at one period of the sale fetched £5 10s, that subsequently realized £6 for a somewhat similar lot (from Laddick), 9 in, and 8 in. deals from this port going lower than the St. John; the ends from the latter port, however, went better this time than at the sale of August 18th by 30s. a standard, which is another variation remarkable in such lowpriced goods.

The 1st quality white planks in the Lockwood's cargo realized a capital price at £10. Those were NP 1 mark, and a lot of 2nds at £3 15s, also w a pound better than precisely similarly describe i goods realized at the sale of 

John's spruce ex Hudson called forth some spirited bidding, but it is questionable if the deals, aithough a very poor lot of stuff, fetched Prices of low-class stuff · ly seemed of this non-paying character, but w 1 the specially low freights that have been , aid this season it is just possible that even on the present prices the expenses are covered, but that any margin is left it is hardly possible to conceive under the most favorable circumstances.

Some of the reserved lots in Wednesday's sale were bid for, and several sold, amongst which were the 2nd spruce planks, ox Jarlen, from Quebec, 9 to 11 feet, realizing £7 10s., and some 3x8, 12 feet, £7; these prices, all things considered, seem fair enough. The cargo was a good one, and with other descriptions of whitewood going at all sorts of cheap figures it is illustrative of the esteem choice Quebec wood is held in when we find packing case makers paying the same price for it as they do for Petersburg of similar quality: prices quoted in the open market for similar goods are £7 15s. to £3, which we believe there is no difficulty in secur-The Quebec oak, ex Oren, without reserve fetched for the large-dimensioned logs £7 and £7 bs. a load, a tall price, especially when we consider that they have been two seasons in the docks. It was rumoured that these were bought in, but as they were put up without reserve we can hardly understand that can be so. At any rate, we record the sale; the smaller logs fetching a uniform price of £6 10s.; if the one parcel was brought in, the whole of it must have h en, and that is hardly likely.

At Thursday's sale values throughout went low for the parcels disposed of; but as we have observed if values did not harden at all they certainly betrayed no further signs of weakness. The birch timber ex Hudson, from St. John, was cheap at the price, but it was not a very attractive parcel, and so with regard to the Odessa wainscot, one buyer took the whole parcel, 15 lots, at 4s. 12 ft. and upwards, and and 37s. 6d. for under that length; a couple of lots of the latter, however, went up to 42s. 6d., the same buyer being evidently determined to secure them. This was undoubtedly a very low crown logs.

The pitch pine planks ex Siberia, from Mobile went slightly better than in the sale of the 27th, 4x12, which on that occasion went at £9, this time fetched £9 15s., and so by this we might describe the market as rather better the last week or two, were it not that other goods went proportionately lower. Ulcaborg, for instance, 4 9, that fetched £3 10s. last month's sale, on this occasion went at £7 15s., and 21x7, which in August realized £6 10s. to £7, in Thursday's sale sold at first-named price.

One with another we may say prices are steady, but it is entirely due to the comparatively small proportion of the stocks which comes under the hammer that keeps them so: this is pretty well recognized throughout the trade, and any presumption on this apparent steadiness would not bring about the anticipated result.

#### GLASGOW.

The Timber Trades Journal of Sopt. 13, says :- A sale of timber was held at Greenock on Sept. 4, particulars as below. The attendance was fair and about 400 logs were disposed of, also various lots of deals,

There has been a light import during the past week-at Greenock a small carge of greenheart timber and at Glasgow two cargoes of spruce deals and sundry shipments of oak places, strves, etc., per steam liners, also an arrival of Quebec deals per steamer,

The total import of deals to Clyde shows considerable falling off this year compared with corresponding period of previous years, being in round numbers 640,000 pieces this year to date, which is more than 200,000 pieces under provious year, and about 150,000 pieces under 1882. The storage accommodation for deals at Yorhill Whari, Glasgow is, however, at present fully occupied, and indeed there are cargoes presently being yarded for which it was with difficulty room could be get, and the passagesome extent arises from the space available beground being now taken un for another purpose. The dock authorities are also at present preparing a straight thoroughfare according to original plan, from Queen's Dock to Pointhouse, which cuts up a considerable part of the yard.

The masons' strike still prevents to a large extent the free enward flow of trade or the execution of such orders as are presently in hand. It was observed by one of the members of the school board here at their monthly meeting last week that they had work amounting to £50,000 on hand to be completed by next July, and as the demand for more room this year for scholars was unusually pressing, some means should be used to bring this dispute to a termination, so that the work which is now at a stand still may proceed. The Board school erection being only one item of our building operations going on, the settlement of this strike would no doubt improve the present sluggish position of the market.

AUCTION BALE.

On 4th inst., at Greenock, Messrs. Singleton, Dunn & Co., brokers :-Queboc wancy boardwood (unreserved)-

46 c. ft. avg. per log 1s. 8d. seo yellow pine (unreserved)— D. C. IL 50 c. ft. avg. per log 1s. 21d. Quebec yellow pine (superior jointing). 35 & 40 c. ft\_avg. per log 1s. 2\dd. uebea Red pino

40 c. ft. avg. per log 1s. 0ld. 85 1s. 13d. 111d to 1s. 01d. bee birch-13} c. ft. avg. per log 18. 5d.

One log poplar— 37 c. ft. avg. per log awn pitch pine timber 40 c. ft. avg. per log 1s. 2d.

Pitch pine planks 3 to 6 in. thick— 101d. to 101d. Quebec 3rd pine deal ends-8 ft. 11×3 7 " 11×3

Queboo 4th pine planks— 14 to 16 ft. 7/20×2 81d. & 81d. Queboc 2nd spruco deals—
11 ft. 7/3×3 8jd.

Quebec 3rd spruce deals—
12 ft. 7/11×3 9d. 13 to 18 ft. 7/11×3 63d. 10 ft. 7/18×3 83d. 0 & 11 ft. 7/18×3 8jd.

Quebec 3rd squace deal ends—4 to 3 ft. 9/11×3 74d. Bright spruce deals -11 & 12 ft. 7/15×3 8jd.

AUSTRALIA.

The monthly circular of Lord & Hughes, timber brokers, dated Melbourne, July 26th, says:-

Business in timber and building materials continous in much the same state as as date of our last issue on the 30th ult., quietness being still the prevailing feature in almost all descrip tions, which is usually the case at this period of the year.

Offering at auction have been below the usual monthly average. Sales publicly have been principally Oregon deals and timber, ex Howard D. Troop; Scotch flooring, ex Glentilt and Blairgowrie; American lumber, ex Lothair, Hoiden and Leading Wind; Kauri pine, ex Camillo and Naiad.

The trade report a falling off in the demand from the yards for consumption, as compared with the provious three months.

Stocks of most descriptions of timber are ample for the next six months at present rate of consumption, but as the banks have reduced the rate of interest on fixed deposits to S, 4, and 5 per cent. for 3, 6, and 12 months respectively depositors will doubtless seek more profitable investments, and this may cause a more active domand for timber and building materials in in the coming spring.

The arrivals have been Mathias, from Gotinenburg, with red deals; Howard D. Troop, from Puget Sound, Minnie Carmichael, from Vancouver Island, with Oregon timber, laths and pickets; Lothair, from New York, Saml. Skolfield, from Boston, with cloar pine, white pine shelving, T. and G. Coiling, spruce deals, spruce fleering, laths, pickets, plaster and ways have had to be encreached on. This to slates; Tiverton, Loch Eck, Westmeath Romanoff, Port Darwin, Blairgowrie, Avenger, Fort

## J. S. MAYO

## MACHINE OILS

OF EVERY DESCRIPTION.

## 9 Common Street, Montreal.

## AMERICAN LUBRICATING OILS A SPECIALTY

As I carry the LARGEST and BEST assorted Stock of OILS in the Dominion, I am prepared to fill all orders Promptly and at

### LOWEST MARKET PRICES.

Vennachar, and Glenochil, from Great Britain, with flooring, deals, laths, slates, lead, galvanized iron and cement; Remus, from Antwerp, with cement: Camille, from Kaipara, Naiad, from Mercury Bay, N. Z., with kauri pine; Cheviet, Gabo, Nemesis, Konoowarra, Buninyong Wendouree, Leura, Cahors, City of Adelaide, from Sydney, with couar, galvanized iron and lead; Adelaide, from Adelaide, with red

RED DEALS,—Imports: 10,942 pieces from the Baltic, 1,860 from the United Kingdom. The arrivals have been Mathias, from Gothenburg, Avenger, from London, and Adelaide, from Adelaide, the latter being transhipment from the Baltic. On 4th inst. the deals ex Leviathan, were offered at auction, but the trade showing no disposition to purchase they were withdrawn, with exception of a line of 9x3, F W T brand, which was sold at 4gd. to 4gd. The only other public sales have been parcel ex Adelaide, and small lines ex Java. We understand the carge ox Mathais has been sold privately at a price not transpired.

SPRUCE DEALS. - Imports; 1,729 pieces. This parcel arrived in Saml, Skolfield, from Boston, and is advertised for sale on the 8th proximo. There have been no sales at auction during the past four weeks.

OREGON TIMBER.-Imports: 1,901,710 feet uper. The arrivals have been, Howard D. Troop, from Puget Sound, and Minnie Carmichael, from Vancouver Island. The cargo ex Howard D. Troop was offered at auction on 18th inst., the greater portion being sold, prices ranging from £6 15s. to £6 5s. The balance of cargo is advertised for sale on the 29th inst. The Minnie Carmichael has just arrived.

LUMBER.—Imports: Clear pine, 145,670 feet super; white pine shelving, 302,872 feet super; T. and G. ceiling, 51,511 feet super. The arrivals have been Lethair, from New York, and Saml. Skolfield, from Boston. Sales by auction have been, shipments ex Lothair, and everal lines ex Hoiden, Leading Wind, W. H. Besse, and Kylemore. The parcel ex Sainl. Skolfield is advertised for sale on the 8th proximo.

PITCH PINE - Imports : Nil.

REDWOOD. Imports. Nil. The balance of argo ex K, lemore was offered at auction on 4th inst, but only a portion of 2 inch was quit ted at £10.

FLOORING AND WEATHERBOARDS, - Imports. 864,294 feet lineal from United Kingdom, 25, 703 feet lineal from United States, Sales by nuction have been of a limited character, being shipments ex Glentilt, Blairgowrie, and Avenger, and small line, ox Kamfjord. Prices real sed were as follows:-Red, 6x12, 11s. to 10s. 3d.; 6x2, 8s. 6d. to 8s.; 6x2, 6s.; 6x2, 4s. 7d. to 4s. 6d.; 4-out weatherboards, 6s. 3d.; white, Gx2, 7s. 9d. to 7s. 6d.; 6x2, 4s. 8d. to 4s. 6d.; 4-out weatherboards, 6s. 3d. to 6s.

KAURI PINE.-Imports: 458,211 feet super.

ising 14s. 6d., and flitches 16s. 3d. per 100 feet super, and cargo ex Naiad was offered at auction on 25th instant, when the whole was sold with exception of about 20,000 feet glinch shelving.

CEDAR.-Imports: 426,970 feet super. The arrivals have been heavy; a great portion of which is of indifferent quality, and logs small .ized, consequently prices this month are lower.

Doors.-Imports: Nil.

LATHS AND PICKETS .- Imports: Laths, 9,-890 bundles; pickets, 1,936 bundles. Sales at nuction have been made of Oregon laths, 41 ft,, at 36s. 6d. to 34s. 6d.; Oregon pickets, 41 ft., at £8 5s.; Spruce laths, 41 ft., at 34s.; 4 ft., at 30s.; Baltic red laths, 6 ft., at 46s.; 41 ft., at

SLATES.-Imports: 442,729 pieces. The only sale by auction has been shipment ex Lothair, of first American Blue Bango slates, 24x12, realising £14 2s. 6d.; 20x10, £9 15s.

PLASTER.-Imports: 200 barrels. This parcel of Albert Mill Plaster (large barrels) arrived in Saml. Skolfield, and was sold by auction on 18th instant, at 14s. per barrel. There have been no other sales by auction during the

CEMENT.-Imports: 11,940 barrels. There is no improvement in the market for cement this month, and the arrivals continue heavy. Knight, Bevan and & Co.'s and Gostling's are quoted at 15s. 6d. to 15s. 3d. Jossen and Co.'s Portland coment has been sold privately at full rates.

GALVANISED IRON. -Imports: 1,765 tons. The market continues quiet, and we hear of no private sales of importance.

Palings.-Nil.

EXPLANATION,-Red deals and sprace deals are sold at per foot of 9x3; T. and G. flooring at per 100 feet running; Oregon timber, redwood, clear pine, shelving, ceiling, per 1,000 feet super; knur pine and codar logs at per 100 feet super; laths, pickets and slates at per 1,000

#### OUR TRADE WITH FRANCE.

The trade in Canadian woods, which are much appreciated in France, has until now been carried on through English middlemen, so much so that the English word "sprace" has become a recognized term of French carpentry. In some quarters it has been found singular that trade between two countries speaking the same language and united by so many ties should not be direct, the only appreciable use of the middlemen being to draw a percentage on the profits, and the classification of the lumber of commerce by Canadian inspectors being sufficient guarantee to the buyer. However, a new departure seems to have been taken, as during the months of July and August two Canadian barques, the Earl of Shaftesbury, 500 tons, and the St. Louis, 480 tons, have cleared Les Escoumains, with full cargoes of spruce planks, the first bound for La Seyne, near Toulon, and the second for Havre. Mr. T. J. Lamontagno The arrivals have been Camille, from Kaipara, 18 the consigned in both cases. Three other and Naisd, from Mercury Bay. The cargo ex barques will shortly leave the same port with ing now more limited than formerly, part of the George, Ilals, Procida, Yarra, Loch Camille was sold on the 22nd instant, logs real cargoes for the French market.—Monircal Star.

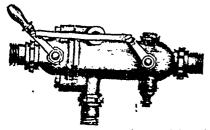
## ROBERT MITCHELL & CO. The Ontario Canoe Co., Limited

Montreal Brass Works,

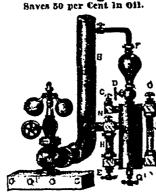
St. Peter and Craig Streets, Montreal.

### THE KORTING INJECTOR

Acknowledged to be the Best Beller Feeder in the World.



Will lift 20 feet, and take water at 150 degrees. Only one handle to start and stop. No valve to regulate. CHEAPER than any other injector in the market. Also, PATENT EJECTORS fo conveying Water or Liquids. CIRCULARS ON APPLICATION The Continuous Feed Lubricator Saves 50 per Cent in Oil.



KNIGHT'S PATENT "EXCELSIOR"

## AW MILL DOGS

The Sawyer's Favorite

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

Mississirri, June 7th, 1883.

HUGH GIRSON, ESQ.,—Your Patent Excelsior Mill Dogs give entire satisfaction, and is certainly up to your recommendation. They are the best Mill Dog in the market. I aim very much pleased with them.

Yours Respectfully,
PETER McLAREN.

BERREAT, April 20th, 1833.

HUGH GIRSON, -Sir, -The Dogs I bought of you give satisfaction.

They beat any Dog that I ever saw for ripping or edging lumber of carriages. They are just the thing for scantling. I would not take \$50 for them to-day and have to wait for another pair to come from you, because I believe they make two dollars a day for me.

Yours trade.

Yours truly, GEO. S. BROWN, Jr

Manufactured by HUGH GIBSON, CHATHAM. EXCELSIOR DOG.

The Best Feeder known for Stationary, Marine or Locomotive Boilers.

### THE INJECTOR PERFECTED!

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

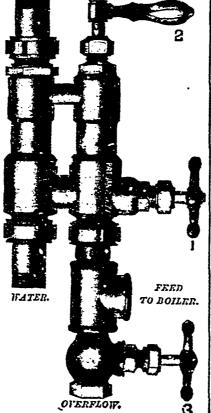
Over 50,000 Now in Use.

MANUFACTURED BY THE

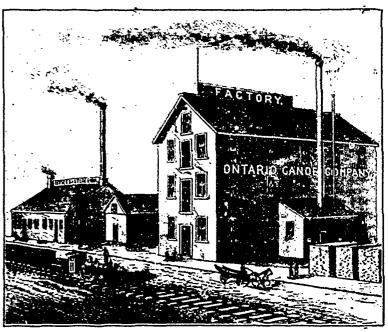
## Hancock Inspirator Co'y

5 CUSTOM HOUSE SQUARE, MONTREAL, P.Q., CANADA.

Manufacturers of Inspirators, Electors, and General Jot Apparatus.



net Cedar Rib Canoes, Patent Longitudinal Rib noes, Basswood Canoes, Folding Canoes, Paddles, Oars, Tents, and all Canoe Fittings. Patnet



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

Send 3 cent Stamp for Illustrated Catalogue.

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

# ROBIN

Have been awarded Three Years in succession at the Provincial and Dominion Exhibitions in Montreal, First Prizes

for

LEATHER BELTING

Fire-Engine Hose, &c.

Send for Price Lists and Discounts to the Factory

594, 596, 598, St. Joseph Street,

## MONTREAL.

Something New in Leather Belting To Mill Owners, Lumbermen, Manufacturers



## Dixon's Patent Lap Joint Star Rivet Leather Belting

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

STREET

An Improved Rotary Piston Force Pump

No.	Diameter of Pipes.		No. of Revolutions.	Capacity per reinute	Prico.	
	Suction.	Discharge.	MOVOIMEIOMA.	at table speed.		
2	2½ in.	2 inch.	250	125	\$100	
3	4 "	3 "	250	250	150	
4	5 "	4 "	250	400	225	

MANUFAOTURER OF

GENERAI

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

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

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

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

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

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

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

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

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

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

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

NERVOUSNESS may be entirely cured in a short time by using one of NORMAN'S ELECTRIC BELTS, without any fear of injury. Try one and be convinced. Guaranteed.

#### TESTIMONIALS—A few Sample Testimonials that speak for Themselves.

MR. A. NORMAN,

DRAW Sir.—I am happy to inform you that the Appliances I got from your Chicago agent have had a most marvellous effect upon my patient who suffered from Sciatics. He could get very little relief from medicine. Shortly siter he got your belts he was able to get out of bed, and is now on a visit to his Canadian friends. Shortly siter he got your belts he was able to get out of bed, and is now on a visit to his Canadian friends.

DR. D. McLACHLAN.

OTTAWA, September 3rd, 1883, cs. I feel attenger and better R. E. HALLIBURTON,

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

Bend me some more circulars.

Yours truly,

Dr. D. McLACHLAN.

The discharges from my hoad, and considerably relieved my catarrich in consequence.

The discharges from my hoad and chost are now oney, and I cell sittogethe better. It for discharges from my hoad and chost are now oney, and I cell sittogethe better. It for discharges from my hoad and chost are now oney, and I cell sittogethe better. It for discharges from my hoad and chost are now oney, and I cell sittogethe better. It for discharges from my hoad and chost are now oney, and I cell sittogethe better. It for discharges from my hoad and chost are now oney, and I cell sittogethe better. It for discharges from my hoad and chost are now oney, and I cell sittogethe better. It for discharges from my hoad, and considerably relieved my catarrich in consequence. The discharges from my hoad, and considerably relieved my catarrich in consequence.

The discharges from my hoad, and considerably relieved my catarrich in consequence.

The discharges from my hoad, and considerably relieved my catarrich in consequence.

The discharges from my hoad, and considerably relieved my catarrich in consequence.

The discharges from my hoad, and considerably relieved my catarrich in consequence.

The discharges from my hoad, and cons

## CURATIVE BATHS: Electric, Vapor, Sulphur, and Hot and Cold Baths.

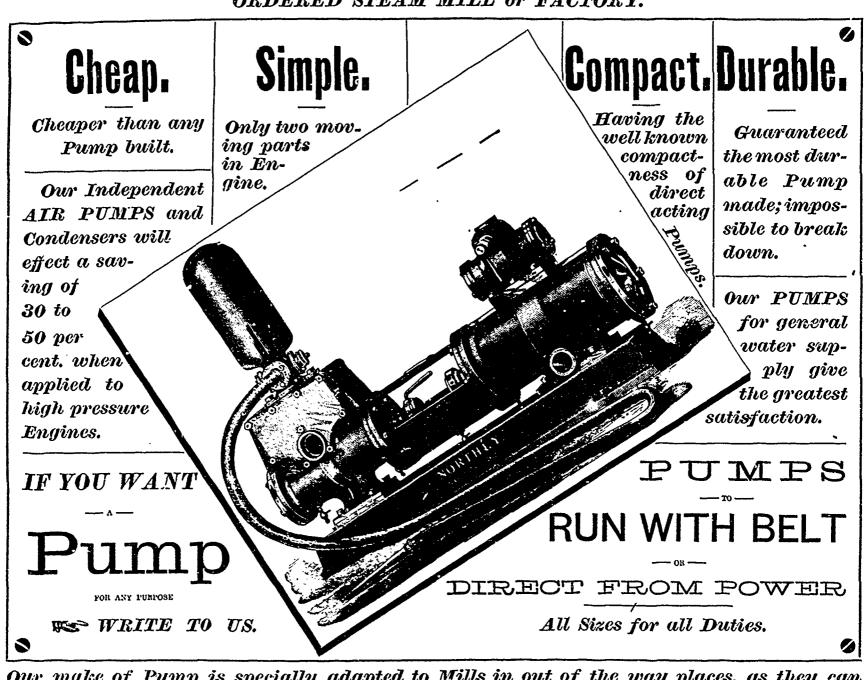
Baths have been admitted in all ages by every school of medicine, to be one of the best means of curing ailments, maladies and diseases. The Electric Bath is the lacest and best discovery in this line. Come and try them. Consultation free. Circular on application,

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

Pumps for Fire Protection a Specialty.

## SAVE INSURANCE.

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



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

WE INVITE CORRESPONDENCE ON ANY POINT CONNECTED WITH PUMPS.

SEND FOR CIRCULAR AND STATE YOUR REQUIREMENTS.
NORTHEY & COMPANY,

Corner FRONT & PARLIAMENT STS.. TO

TORONTO, ONT.

THE INTERNATIONAL

# TENT & AWNING CO.

184 Sparks Street, Ottawa.

MANUFACTURERS OF

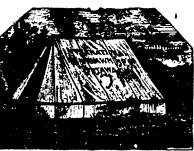
# LUMBERMEN'S TENTS

The Cheapest and Best in the Market!

32 First Prizes

6

MEDALS.



HALIFAX

TORONTO, 1883.

Tents, Flags, Tarpaulins, Waterproof Goods, Camp Furniture, etc., etc.

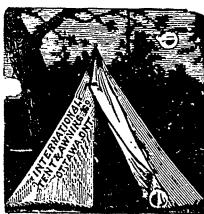
Estimates for Circus Tents, Range Marquecs, Hand-made Sails, etc., furnished on application. Liberal Discount to Large Buyers.

## PORTABLE CANYAS BOATS MADE TO ORDER

Send for CATALOGUE

ANTE

PRICE LIST.



SEE OUR NOVELTIES

Camp Furniture

At Toronto, Ont., and St. John, N.B., we made the best Display of Tents ever shown in Canada—and we never substitute an article inferior to sample in filling orders.

We control "THE LATOUR PAT." for Camp Furniture, the best on earth. The only Gold Medal ever given for this class of goods was awarded to the Latour Camp Furniture at Toronto in 1882.

## SAIL-MAKING

We have secured the services of the best practical sail-maker in Canada. Orders in this line will receive prompt and satisfactory attention, as is usual with all orders entrusted to us.

Agency for the WILDERMUTH BED SPRING, the best in the Market.

A. G. FORGIE, MANAGER,

International Tent & Awning Co.,

184 SPARKS STREET, OTTAWA.

MONTREAL SAW WO

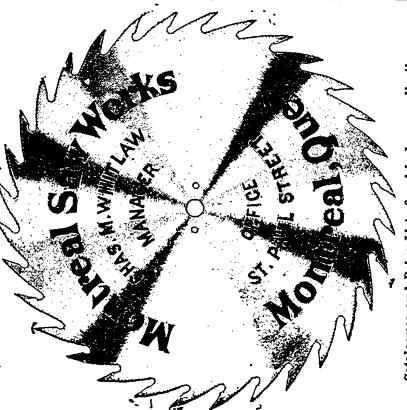
OFFICE: 452 St. Paul Street. P.O. Box,

-MANUFACTURERS OF-SIRCULAR, GANG, SHINGLE, CONCAVE GROC

BILLET **CROSS-CU** CROSS-CUT ONE MAN DRAG.

AND SAWS, BARREL AND HEADING SAWS. EM

FRS 四  $\mathbf{\Omega}$ 



Catalogues and Price Lists furnished on application.

# The William Hamilton Manufacturing Company, Limited

MANUFACTURERS OF

# SAW MILL & GENERAL MACHINERY

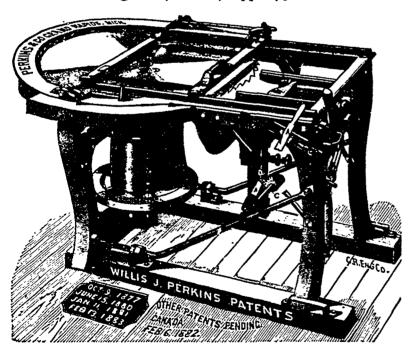
OUR SAW MILL ENGINES are made Strong, Neat and Durable, knowing well the ever varying Strain they are subjected to in driving a Saw Mill.

We wish to call the attention of our Canadian Lumbermen to our First Class HEAVY SAW MILL MACHINERY for Circular Mills and Circular and Gang Mills of the most improved designs. We are prepared to submit Plans and Specifications, together with any information that our many years of close application to the Saw Mill Business may have suggested to us, also when required to enter into contract for building and supplying the machinery complete, superintending the starting of the same, and handing over the mill to its owner in first-class running order.

Besides the variety of Machines we build for the manufacture of lumber we have added to our list the

### PERKIN'S PATENT SHINGLE MACHINE.

aving obtained the sole right to manufacture and sell for the ominion. Also Drag Saws, Bolters, Sappers, Jointers and Packers.



GRAND TRIUMPH.

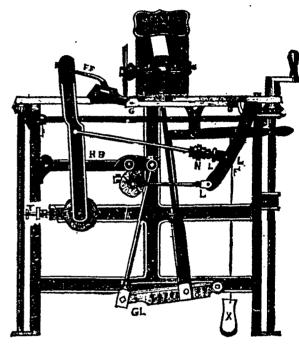
## Willis J. Perkins' Drop Tilt!

The only Horizontal Saw Macaine on which a thick slab can be cut from the bolt,

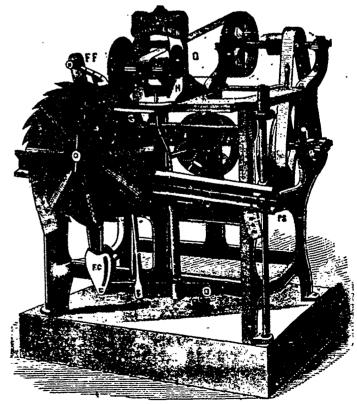
SECOND CUT ALWAYS A SHINGLE.

Knots, rots, hearts, bolt squared rift ways, and all irregularities cut off at one clip. This improvement will pay the price of the whole machine every season by increase of quality and quantity cut

## THE M. COVEL PATENT SAW SHARPENER.



The above Cut No. 1 shows some very important changes that have lately been made, which makes the machines far less complicated for new beginners to operate. Cut No. 2 shows this machine with a circular saw upon it ready for operation.



## THE WILLIAM HAMILTON MANUFACTURING CO.

PETERBOROUGH, ONTARIO.

SOLE MANUFACTURERS AND AGENTS FOR THE DOMINION.