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PUBLISHED MONTHLY By A. G. MORTIMER.

The only Newspaper devoted to the Lumber and Woodworking Industries of the Dominion.

SUBSCRIPTION \$1.00 PER ANNUM

VUL. 6.

ONT., DECLMBER, PETERBOROUGH,

NO. 21.

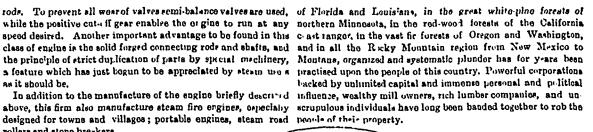
A SIMPLEX AUTOMATIC CUT-OFF ENGINE.

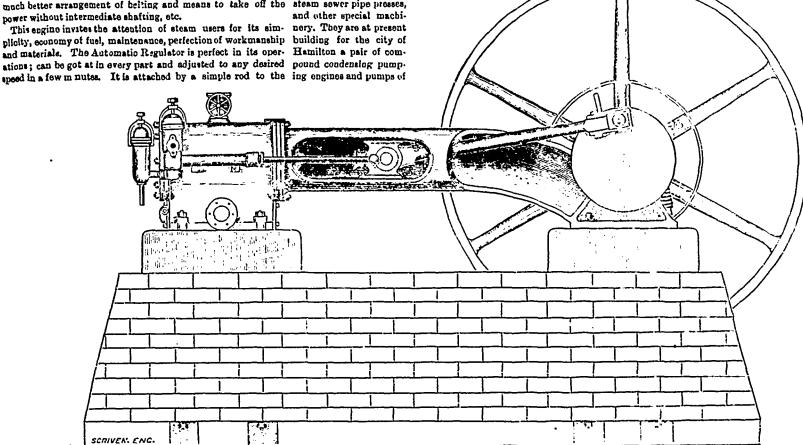
HE accompanying engraving illustrates the leading engine Ont. The advantages claimed for it are extreme simplicity, there being no part of the engine that requires frequent adjustment. The manufacturers claim that the cost is smaller for equal power derived from the fuel burned than that of any other engine running automatically. The engine takes up less space and does not require expensive foundations; the form of engine is such that above, this firm also manufacture steam fire engines, especially scrupulous individuals he it is perfectly rigid under every variation of load. This is not designed for towns and villages; portable engines, steam road people of their property. the case with long stroke engines. The losser diameter of the rollers and stone breakers, band wheel, and the greater speed of the engine, gives a very much better arrangement of belling and means to take off the power without intermediate shafting, etc.

This engine invites the attention of steam users for its simplicity, economy of fuel, maintenance, perfection of workmanship and materials. The Automatic Regulator is perfect in its operations; can be got at in every part and adjusted to any desired

To prevent all wear of valves semi-balance valves are used. manufactured by the Osborne-Killey, Mig. Co., of Mamilton, speed desired. Another important advantage to be found in this class of engine is the solid forged connecting rode and shafts, and a feature which has just bogun to be appreciated by steam use s as it should be.

steam hoists and cranes, ateam sewer pipe presses, and other special machinery. They are at present building for the city of Hamilton a pair of compound condensing pump.





valve spindle, and adjust the cut-off to the power required in a ten milliong-lone capacity per day. Full information regarding range varying from \$ stroke to zero. It acts with great prompt- any of these machines will be furnished by the manufacturers. ness; no percapitale variation taking place in the engine under every variety of load. The cut of valve runs nearly in perfect

balances, the governor having complete command of it. The wide reputation of the manufacturers of this engine, for

A SIMPLEX AUTOMATIC CUT-OFF ENGINE.

STOLEN TREES.

CONSIDERABLE portion of the last annual report of the A Commissioner of the General Land Office is devoted to a furnishing only the best of work and materials, render it almost description of the methods employed by unscrupulous men to rob unnecessary to say a word upon this aubject, they having sent the people of this country of this forest possessions. Long their engines into alm at every corner of the Dominion, but at- practice, often encouraged by efficial speculation, has reduced the ten'in might be called to the following important points: best steal ng of Government timber to a five art. It has been going Babble, main journal linings, and gun metal connecting rod on practical y unchecked for years. Wherever trees have grown

The officers of the General Land Office have certainly not falled during the last year in honest end-aver, at least, to check the numerous frau is which have gradually become a necessary feature in the administration of the public domain. Not less than twelve hundred and ninoteen cases of depredation or timber trespass have been reported during the year, involving forest products valund at marly nine millions and a half of dollars atolen from the prople of the United States. Only two hundred thousand dollars, nevertheless, have been recovered by the Government on this account, while the public plun lorers have been able o escape with over nine millions worth of timber and other forest products; oxes; steel crank and cross-head pins; steel piston and valvo upon the public domain, among the turpentine producing pines a sum one-third greater than the gross value of the annual product

of the Government forests of all Germany, or nearly double the the annual net yield of the public forests of France. All depredations have not been reported, and American values for forest products are much lower than G-rman or French values for similar articles, so it is safe to assume that in the last year more timber, bark and turpentine have been stolen from the national forests of the United States than were produced by the public forests of Germany and France, although in these countries forest production under scientific management is now very great.

Such a monstrous condition of affairs should not be allowed any longer. No Government has the right to open such easy paths to fraud and corruption as now cross the public domain in every directi n; and no forest, however productive or extensive, can long withstand the inroads which we are making upon our forest supplies.

It is for the best interests of the nation that some portions of the national domain should be permanently covered with a forest growth and retained under Government control; other portions of the forest-clad public domain could, perhaps, be more wisely dleposed of than retained. But with exciting information in regard to the public forests it will be highly unwise to make any division of our forest lands into necessary and superfluous before the proper limits of forest reservations are fixed by scientific investigation, and a proper system of forest administration can be developed for their management and control Congress should take prompt action therefore upon the sensible recommendations now used for the second time by the present Commissioner of the Land Office, that all public forests and all lands valuable chiefly for timber should be immediately with frawn from sale or disposal, "subject to future legislation for permanent reservation of designated areas and a more economically governed disposal of such timber lands or timber as may not be necessary indefinitely to reserve."

Such legislation would meet with the most vigerous opposition, but unless the Tumber Rings can be defeated, the extermination of all the Government forests is merely a question of time, and with the forests spriculture and prosperity will disappear from the western half of North America .- New York Sun.

CANADA RAILROADS AND LUMBERMEN.

S OME of the Canadian lumbermen are complaining bitterly, and with no small reason of the treatment which is accorded them by their railway companies in the matter of lumber freights. A correspondent of the Toronto Globe writes at length of the matter, setting forth the grievance of the trade with great clearness and force. The present system is a curious one. Each car has marked upon it its capacity in pounds, the minimum being 24,000 pounds, ranging from that up to 40 000, and the freight is charged on the basis of so much a hundred for the marked limit of the car, unless it should happen to overweigh, when the excess is also added. If the car happens to contain less than the weight it is rated to carry, no corresponding deduction is made, and as many cars, labelled to h-14 30,000 pounds, cannot be leaded with some kinds of dry lumber even up to 24 000 the milway camp mies exact pup for a large amount of freight which they do not carry. If the lumber bappens to get rained on in transit, and absorbed a few hundred pounds of water, it is said the companies re-weigh the car, and char, e the difference to the shipper. The lumbermen are trying to induce the railway people to make them rates per thousand feet, their experience with the plan of charging by weight not having given them a favourable impression of that method. But the trouble stems to be not so much with the principle, as with the manner of applying it. In the United States, freight rates are made on the basis of weight, but only the actual weight of the stuff carried is charged for, the same as other merchandise. It makes no difference to the railway company hers whether the cars are loaded with lumber that has been cut six months or six days; it gets paid for the number of pounds in the car, and it is the concern of the party who pays the charges whether the shipment is heavy or light in proportion to its bulk. It is comparatively easy for a lumberman to ascertain the average weight of stock, and to make his calculations of the cost of transportation with confidence in their substantial correctness. Indeed, so closely can dealers figure the cost of moving lumber, that it has come to be the common practice to quote prices on stock delivered at the luyer's railway station. The basis upon which these delivered prices are made up is an agreed schedulo of weights, which though arbitrary, comes to near to the average of dry stock, that norther buyers nor sellers find it objectionable or inconvenient. It would seem the part of wiedom for the Cauadian trade to direct its efforts toward introducing the plan, at once rational and fair, of charging shipments at a certain rate for each hundred pounds carried, rather than to attempt the probably impossible undertaking to get the railway which is as unfair and unsattefactory on one side, as the present plan is on the other.

The C. P. R Telegraph Company are steadily extending their system. They have begun the construction of a branch line from Medicine Hat to Fort Beston, Montans, and it will be in working operation in a few weeks. The cattle business of the railway made this line a necessity. They are also steadily putting up heavy wires through ut the mountains, replacing the poorer ones these wires through to the coast ere long.

General Aews Aotes.

A meeting was held in Cincinnati recently for the purpose of organizing a lumber exchange.

The loss by fire of J. A. Duval's saw mill at Grimsby, Ont., amounts to \$2,000; no insurance.

Pine deal mills are now coming to a close, several of them having fini-hed sawing for the season.

It is raid that a Causdian lumber syndicate has acquired title to 500,000 000 acres of land in Minnesots.

It is stated that upwards of 100,000,000 feet of logs have already been skidded on the Menominee River, Mich., but the report is not generally credited.

The men are at work closing up Eddy's mills for the winter. The saws are being taken out and everything is being prepared for the closing in of the sides.

The large lumber firm of W. J. Trounce & Co., Port Perry, has sesigned. Their bankers have a claim of \$100,000; other liabilities it is said, will not exceed \$5,000.

Mr. J. R. Booth has purchased the entire timber limits, six limits in all, of Messes. Barrett & Mackey, in the Nipissing district. The price paid was \$270,000.

The firm of Ross & Little, sash, door and blind manufacturers, of Midland, Out., has been dissolved. Hereafter the business will be carried on by Mesers. Ross & Davenport,

Mr. Nagle, of Ottawa, has sold a timber limit of 36 miles on the Georgian Bay, to Mr. Bortin, of Barrie, for \$35,000. Mr. Burtin bought another limit adjourning the former one, of 36 miles for \$25,000.

Mr. J. R. Booth has laid up three large rafts to winter over at Mulloch's boom, Amprior, having decided not to put them on the Quebec market this year. There is said to be more timber being sent to Quebec this year than there has been for several seasons,

A correspondent of the Minden Echo, writting from Mr. John Dwyer's shanty, Anson, gives the following :- "On Sa urday of last week Mr. George Long, of Peterborough, skidded 431 logs in eight hours. This is considered the biggest days skidding ever done in this country, and if it can be beat the boys would like to hear from the champion."

The square timber market in Quebec is getting brisk. The Messrs. Hurdman, of Ottawa, and McLacklan Bros., of Arnprior, will shortly open shanties to supply the demand. Orders have been left with Mr. B. Renaud to procure gange at once for both these firms so that operations may be begun without loss of time. Mr. Renaud shipped a gang recently to Sturgeon Falls, for Mr. J. R. Booth's new limit.

The Section north of Harvey, Ont., is alive with men busy at felling the lefty pines. The Gilmour firm has over 50 men employed at the depot, and more are arriving continually. This eason will be unusually lively, as Mr. Biglow and Mr. Davis will have men employed in the vicinity of the Gilmour camps. B. Rathbur, youngest son of the late H. B. Rithbur, of Deser-Life in the lumber camp as pictured in "Picturesque Canada" presents an interesting scene, but the original only can give a true picture.

The Jane Woodruff leaded with 150,000 feet of lumber for Midland ran on the Watchers last week during the gale. She was trying to make a short cut and finding herself among the rocks cast both at chors when the cables parted at d she drifted on in spite of all effort. The Shawanaga went to her rescue, but Miss Alexander and Miss M. Blake, were diesses of coffee-could not get near enough to throw a line, on account of the colored Indian muslin and lace with crimson velvet sarles, beavy ses, and was obliged to return without rendering any acsistance. A part of the cargo will have to be transferred before diamend ornaments given by the groom. The bride's train was she can float.

Nearly all the legs on the Chaudiere have been secured. Mr. John Breakey's railway from his mills to the Chaudiere Besin is now being worked day and night, carrying logs from the mill dam to the mouth of the Chaudiere, where they are rafted and towed to the Montmorency Mills, part of these logs being a portion of the legs cut by Meesre. Helt Bros. during last winter, balance being Breakey's, which, owing to the large number of logs that have come down at once, he is having sawn into deals at the Montmorency Mills, which are being run night and day.

Ottawa millowners were not so buey last fall, nor are they this, they were in previous years, this they attribute to the increase of railway facilities. In old days people had to obtain the whole of their winter stock before the end of the fall, but now with the increased powers of transit they can receive lumber by rail at any time. This means increased employment at the lumber yards during the winter. The trade is a eady at unchanged prices. people to go back to the scheme of hauling at so much a thousand But little lumber is obtained in O tawa, the output having been principally disposed of for the American market. The local demand is moderate.

> The lumber season now opening in Manitoba promises to be a most active one, says the Free Press, and lumbermen are consequen ly in good spirits. Gauge of men are already being sent to Lake Winnipeg and the Lake of the Woods districts, and a waiting for the spring freshets to bring them to the mills. A paper with French-Canadians.

heavy demand for good lumber for railway bridges existed last season. From Winnipeg and all points of the Northwest there has been a demand for lumber, which indicates that building operations have been beavily carried on during the past summer, The mills have been sushed to their greatest capacity. Prices are stiffening and are now from \$14 to \$15 per thousand feet f.o b. at Keewatin, and from \$17.50 to \$18 50 at Winnipeg. They are expected to keep up if the market is not glutted by too heavy an output.

Up to the present time there have been cut and shipped at the Rathbun Co's mill in Campbellford, about 75,000 railway ties, and nearly 25,000 remain to be cut before the work will be completed. Besides this large cut there have been turned out 500,000 feet of lumber, and 12.000 bundles of lath, together with an enormous quantity of shingles, barrel heads, pickets, and several thousand feet of two foot wood. The shipment of ties recently amounted to two train loads daily. A pier is being built at the rear of the Company's premises to prevent the place from being flooded by the river. This will be extended from the mile along the river edge to the southern limit of their property, and the grounds will be filled in and made level. The work is being done now, and will be completed sometime next summer. This mill, we are informed, is one of the best paying of its kind in the country, a tribute to the ability of Mr. Joseph Clairmont, the manager. Work will be continued till about the first of February next, but the staff of bands during all that time will not be as large as it is at present,

Messrs. Grier & Co., are builing a large new mill which is situated between their old mill and McK.y & Co's. flour mill. Operations commenced a few days ago, and are at work on the foundation, which is of stone five feet in thickness. The mill is to be fifty feet wide by one hundred and fifty long. There will be placed in the mill one garg-saw of the lat-statyle, two slabbing gang-saws and one stop gang saw, all of American make. A large dam will be built in front of the mill to keep the water back while operations are going on. The foundation will be finished in about three weeks, when three larks stone piers, measuring twenty feet in diameter, will be built in the buttom of the mill, to ho'd the gang saws. The new machinery for cutting up the refuse will cost about \$12,500. The waterwheels will cost something over \$3 000, wh.l: the edger and other im; I-men s will cost about \$12,000; the whole estimate cost is about \$50,000. The top part of the unli will be of wood, and resemble very much in shape E idy's large mill. It will be painted and decerated, and it is said it will be one of the finest mills in Canada. The building will extend 12 feet nearer the bridge than the old one, and 37 feet farther back. The mill will employ 30 men inside, and be finished about the 1st of May next. Owing to the prospective increased mill being buil, Messre, Grier & Co. will have to double the capacity of their sorting and piling grounds, thus giv. ing employment to a very large number of hands. - Ottawa Evening Journal

A wedning took place last night in the long drawing room of the Queen's hotel, the contracting parties being Mr. William C. ronto, and Mi-s Jean Blakie, eldest daughter of J.L. Blakie, 1ste of Hollydean. Resedale. Owing to the recent death of the groom's father the wedding was comparatively quiet. The bride was attired in a dress of les-e, lace front, with long court train and waist of ivory moire, a long spray of myrile and white lilac looping up one side; bouquet of loose white roses, held together with white ribbous; orn ments, diamonds. The bridesmaids, bu quets of loose Marcechat Ned roses held with crimson ribbon, carried by Miss Florence Blakie and Miss Edna Hindhaugh. The fi ral decirations were most abundant, the string band being completely hidden by a bank of feli-ge and flowering plants. The presents were exceedingly handsome, the grooms being a set of jawellery composed of mountaines and diamonds, with a diamond crescent brooch, having ten large diamonds, groom was attended by Dr.A.J.Johnson and Mr. E.W.R. thhun. After the ceremony the band played the Wedding March and the company repaired to the dining room to enjoy a sumptuous dejeuner. The happy couple left by the 11.15 train for California where they will pend some months on their honeymoon .-Toronto Mail, Nov. 4th.

The Mont: eal Press.

There has been a remarkable newspaper development in Montreal during the last few years. It is not long since there were only a couple of French Canadian daily papers in that city. and now there are five live daily journals in that language. It is probable that a great deal of this development is due to the success of the Mintreal Star, on which nearly all the French papers are modelled. The Star rose very rapidly and very remarkably through its enterprise and independence to its present position as the best and most widely circulated daily newspaper in Canada, and as it has always been widely read among the French Canadian business and professional classes, its success week or two will see operations in full awing. A good many lum- atimulated the devel princip of French papers. It is rather a bermen did not get all their last win er's cut down to the mills curious fact, however, and a remarable c myliment to the Star last summer, the drives sticking, owing to the lowness of the that neither its independence of opinion nor the growing compoerected in the "construction" period of the road, and hope to have water. There are several millions of feet at present on the rivers tition to which it is subjected checks its progress as a favorite

Alseful Information.

A subber cushi in under the legs of a work bench will deaden the sound of hammering so completely that it will not disturb the inmates of adj ining rooms,

In putting up your screen doors and windows by very particular to have a little hole in one corner so that the flies can go out doors when they get tired of being inside.

them and repeat the process if necessary. Hay water is a great Rogers' Saw Filer, herewith illustrated, the invention of Mr. S. Me, evertner of tin, wooden and ironware. In Irish dairies every. C. R gers, one of the Company. This little tool has been 35 To remove iron taste from new kettles, boil a handful of hey in thing used for milk is scalded with hay water.

A government inspector of timber in France recommends for timber used in ship building one year's immersion in river waters two years in fresh, or three in brackish water, constantly being changed, to be followed by two years of air seasoning.

A FILLER FOR OAK, MAPLE AND CHERRY WOOD .-Whitigi ounces, japan h pint, boiled lineed oil h pint, turpentine 1 pint, corn starch 1 ounce; mix well together and apply by continuous rubbing in. On cheery would add a little Venetian red to the above mixture. A cheaper and for most uses a better filler than this can be bought already prepared.

Wood may acquire an oak, walnut or cherry color by stainingit with ordinary tincture of iodine diluted with spirit until the exact shade is obtained. White shellac must be added to the lodined solution if the stain is to be made permanent, or the wood after the stain is applied may be French polished. The iodine may be laid on with a reg or a brush.

A german chemist has discovered that the strength of glue is very greatly increased by the addition of one-fourth as much glycerine as glue. Glycerine has many other uses, among which one of the least known is its property of removing pencil marks from paper in a very perfect manner. It may also be combined with starch and plaster of Paris, to form one of the most durable cements for various kinds of apparatus.

mention that you saw their advertisement in the

10 per cent, of burned magnesia, baryta or strontia, as well as mineral oil. This neutral zes the free acid of the paint, and the alkaline reaction protects the iron from rust. As a preventive of iron from rusting in the ground, the metal is painted over with a mixture of 100 parts of resin and 25 parts of magneria, besides mineral oil. A temporary paint for the movable portions of machinery contains some 20 or 30 per cent. of magnesia or burnt dolomite, with some vaseline added to prevent drying.

The following is a good recipe for waxing fluors, and the method of application. Stir twenty-live parts of shrelded yellow wax into a hot solution of twelve parts of pearl ash in soft water. Keep the mixture well stirred until the effervescence crases, then remove it from the fire and stir in twelve parts of finely-ground yellow other. It may now be poured into caus to cool. wanted for use one part of it is dissolved in five parts of boiling water. Apply warm with a paint brush. It dries in a few hours, when the floor is polished with a floor brush and afterward wiped with a woolen cloth. It is said this wax coating will tal, for six months with ordinary use.

The National Druggist gives this form of an absolutely clear solut on or speciac:-Prapare first an alcoholic solution of shellac in the usual way; a little benzole is then added, and the mixture well shaken. In the course of twenty-four or forty-eight hours the fluid will have separated into two distinct lay rs, an upper alcoholic stratum perfectly clear, and of dark red color, and under it a turbid mixture containing impurities. The clear solution may be decanted or drawn off.

The following is a good receips for waxing floors, and the method of application. Stir twenty-five parts of shredded yellow wax into a hot solution of twelve parts of pearl-ash in soit water. Keep the mixture well stirred until the effervescence ceases, then remove it from the fire and stir in twelve parts of finely ground Waen yellow other. It may now be poured into caus to co l. wanted for use one part of it is dissolved in five parts of builing water. Apply warm with a paint brush. It dries in a few hours, when the floor is polished with a floor brush and afterward wiped with a woolen cloth. It is said this wax coating will last for aix months with ordinary use.

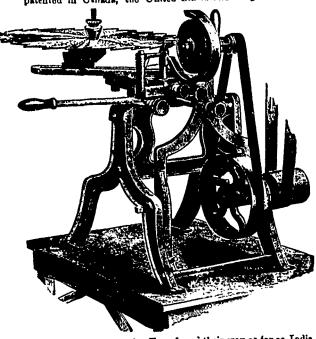
Sand paper is at present made with pawdered glass instead of sand. Glass is readily pulverized by heating it red hot and throwing it into water, and finishing in an iron mortar. By the use of sives of different sizes of mesh the powder can be separated into various grader, from the finest dust to very coarse, and these should be kept sepera e. A strong paper is tacked down and covered with a strong size of glue, and the surface covered with powdered grass of the desired fineness; when the glue is dry the surplus glass is shaken or brushed off. Muslin is betterthan paper, and lasts much longer in use,

SOMETHING NEW IN SAW FILERS.

Emery wheels are playing an important part in many lines of manufacture, and the ingenuity of inventors has been directed towards providing suitable devices to run them, and enal le them to o their work in the most effective manner.

The Hart Emery Wheel Co., of Hamilton, have by no means been negleo ing the interests of their customers in this re-pect, for they have at least contributed their share of improved devices for running emery wheels.

Not the least ingenious of their emery wheel machines is the patented in Canada, the United States and England, where



When opening correspondence with advertisers always several of them are used. They found their way as far as India, and there is no doubt that every woodworking e-tablishment will have one or more of them as soon as they become known and What is claimed to be a valuable rust preventive is a recent appreciated. The Hart Emery Wheel Co. have placed them in German invention. It consists of ordinary all paint mixed with nearly seventy establishments in Canada, every one of which is a reference as to its usefulness.

The machine is almost automatic. The operator has only to move the lever back and forth. The saw revolves and the wheel moves out and in, in perfect time. Any one part of a touth can be filed lightly or heavily without touching any other part. For issance, the operator can go all round the saw, filing on the throat only, or along the bresst or back, and what is done on one tooth can be repeated on all the others, for perfect roundness is the result of using this machine.

Firms who are using the Rogers Saw Filer assect that they find their saws do better work; they keep sharp longer and do not wear away so fast.

See the Hart Emery Wheel Co.'s advertisement on outside of back cover.

Our Readers who write to advertisers in this Journal, will oblige both the adv-rtiser and publisher by mentioning the Canada Lumberman."

WOOD-WORKING PATENTS.

The following list of patents relating to the wood-working interests, granted by the U. S. Patent Office, up to Nov. 25th, is specially reported by Franklin II. Hough, Solicitor of American and Foreign Patents,925 F. street N. W., Washington, D. C., who will furnish c. pies of patents for 25

350,352-Plane, Runder-J. L. DeHuff, Reading, Mass. 350,190-Planing and Matching Machine.-W. H. Doane,

Ciuci nati, Ohio. 350,193-Saw, Hand-W. H. Fritts, Plano, Illinois. 350 409 - Saw, T. Van Hand-Ostrand, Kinsley, Kanasa

350 179-Stump Extractor .- W. H. Wright, Laconia, N.H. 350.657-Auger,-S. Bord, Bradenville, Pa.

350,613-Plane, Buch-F. M. Bailey, Pittaburg, Pa. 350 555-Planer, t.ble cushioning device-F. Paillips, Newarl,

350 892 - Planing Machine. - G. S. Myrick, Philade'phia, Pa. 350 482-Saw mill attachment.-W. H. Roberts, Cheboygan, Mich.

350,742-Saw mill carriage.-E. Hyde, East Suginaw, Mich. 350 853 - Saw awasging device. - P. R. Ward, Quicey, Ill. 350 S94 - Sawing machine. - G. Puhl ani A. Mertee,

Allecheny, Pa. 350 S72-Tenoning machine. -A.L. Cushman, Concord, N. H. 350,520-Wood-working machinery knife.-J. B.

Chicago, Ill. 351 393-Planing and matching.-S.A. Woode, Boston, Mass. 351 165 - Saw mill carriages. Feed machanism for-C. E. Clark, Belmont, N. Y.

351 202-Saw mill carriages. Feed mechanism for-G. M. Pelton, Belmont, N. Y.

351,144-Saw mills. Log bunk for-P. B Williams, Butler,

Indiana 351 106-Saw set.-H. A Hanser, Cl ristiano, N rway.

351,286-Saws. D ves for jointing and cotting the teeth of -R. M Sandford, Hobart, N.Y.

351.277-S unp extractor.-E S. Meore, C leman, Mich. 352 307-Planing machine.-W. H. Dosne, Cincinnati, Ohio. 352,352-Saw-filing implement.-P. A. Potter, Wollstorough,

352 269-Saw, drag.-B. F Shinn, New Iberia, La. 353,207-Saw-setting device.- J. B. Sylvester, Blue H.ll Falls,

352 370-Stump-extractor.-F R. Smith, T. wah, Wes.

352 216-Timber, preserving. - A. Ai ken, Darroch, Satland. 352,901-Listhe for turning spins. - G. Wood, Phinde phis, Pa.

352 867-Saw -C. W. Grette, Newark, N. J.

352 624-S.w .- T. O. Laughlat, Statish River, C neda

352 550-S. w gun mer.-T. S. Maxwell, Al, hatetts, Ga. 352 838-Saw-mill set-works .- W. F. Parish, Minneapolie,

3:2,802-S.w sharpening machine.-A. Blackmor, Minneapolie. Mn .

352,670-Saw-swage,-C. Ward, Hering, Mich.

352.769-Stumt puller,-W. M. M. K.y, Walno', Mich.

352,004-Saw.-F. H Richards, Springheld, Mess.

352,050-Saw-jointing device.-J. W. Edmonson, Mendon, Ohio.

351 974-Saw-mill set works.-F. J. G'east, Van Wert. Ohio. 351 815-Wood-bending and drying machine. - S. Swartzn, Buffal , N.Y.

Apparatus for cutting circular .--352,003 - Wooden-plater. 1. M. Rhodes, Hancock, Mich.

THE ACTION OF FORESTS ON AGRICULTURE.

To the Editor of the Canada Lumberman:

SIR,-I have been asked to state concessly, with a view to its publication through the press, thus reacting a larger circle of renders than will peruse blue books or reports, the reason for maintaining forests among agricultural lands, and the best mathed of doing to, without asking too much expense from any individual proprietor. I have stated a few here, and should be glad if, in the interest of the forestry movement (which is, in view of the great harm over-clearing is doing our agei ut ure, the cheif need of Ontario) you will give it a place in your columns.

The reasons for maintaining forests are: - That they held the rain in their beds, which are formed of a deep mass of leaves, and decayed forest refuse (this is so I mg as the firest is kept free from grass. If cattle he let in to tramp it hard, and gea s over-spread it, it will not retain nearly so much, and will be to that extent inf rior in value as a re-ervoir of moisture to the farm lands around) This water so held, filters off slowly through the surrounding land, and keeps creeks, rivers, and the numerous underground channels of the earth supplied with water, which furnishes moisture thus to the wh 1- country. If there be no wonde, rain fl was ff at once to the river, washing away much good earth in its progress, and being of very slight benefi ial effect compared to what it is in the former case.

That they in the season of grow b, when showers of rain are needed, being then possessed of vast quantities of leaves, which throw out much moisture daily, and this moisture b ing the lightest of all vopore, send large questities of it upward to the higher atmosphere. Being coller than the air correct above, when it meets one sufficiently damp, the juncture of the warm and cooler belies immediately must produce precipies inc, and rain must fall at some point, sither nearer or further, depending on the speed of the wind then existing. That would, or even single lines of evergreens, exert a cowerful is flarace by w y of shelter, thus, that when a shower of rain has most end the ground, that land will aid vegetation rapidly so long as the in isture is evaporating from the surface, for all that time the land will be neither too wet nor too dry, and the masture will not be stsguant, which is injurous, but in motion, when it is ben ii i. When there is no shelter, the drying winds pass over too rapidly, and the benefit of the chower does not remain in the land for half the time it beneficial'y might.

Tout the sholter of trees in lines or blocks is very valuable to winter crops, in preventing the uneven drifting of show, and otherwise; and this is ve y important with reference to the growth of clover, which is the principle means of keeping in good tilth many of our O stari a sils.

These are but a few of the reasons, the cheapest methods of obtaining those adventages are first to preserve a piece of the original forest on each farm, which I have known dine effectuary simple by fencing the piece desired to preserve, and keeping cattle out; and next by planting long lines of eve greens as windbreakes. If the latter he tried, the way to su-Coss is to plant about the first of June, and keep the roots quite damp and covered from aun and wind till plane i.

Yours truly,
M. W. PHIPPS.

Toronto, Nov. 9 h, 1886 When opening co respondence with a tvertisers always

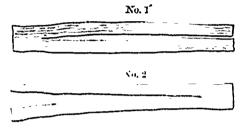
mention that you saw their advertisement in the "Canada Lumberman,

SOMETHING ABOUT SHRINKAGE.

BY R. H. DAVIES,

There s but very little material that keeps the same size under all circumstances. Metals shrink and expand-some very much more than others-according to change of temperature. I don't wish to treat of the shrinkage of metals in this article, but wholly upon the shrinkage of woods. Like metals different woods vary much in shrinkage. But all woods of the same variety will shrink in size, in proportion to the amount of water or sap contained in the wood. One variety of wood may contain four times the quantity of sap, and still not shrink near as much as others, Lumber sawed from trees growing on a side, bill, or near the water, or on the south eile of a grove, will shrink very irregularly. Some parts will shrink very much more than others, more particularly endways. The same is true with a tree that grows very much out of perpendicular. Suppose a tall tree was growing at an augle of 45 deg. the tree itself being perfectly straight, as soon as the tree was cut down, it would partially assume the shape of a rainbow.

Nearly all the lumber shrinks, more or less, endways. lumber will shrink on one side and expand on the other the moment it is sawed. This is very noticeable in sawing lumber for logs. For instance, the first board sawed from a log may be longer than the log, or vice virsa, according to which side the sawing was commenced. It is also very noticeable in ripping up lumber; sometimes when the saw gets well into the board, it begins to pinch, and has to be wedged, but after the saw gets

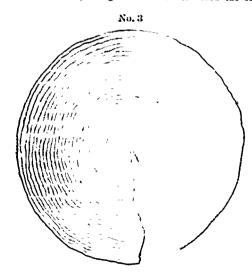


nearly through, the cut begins to open, as illustrated in cut No.1. Or it may open matead of pinch, as shown in cut No. 2.

This is all done by shrinkage and expansion. In No. 1 the inside shrinks while the outside expands; and in No. 2 exactly the reverse. We will suppose that No. 1 and No. 2 each represents a board 12 or 14 ft. long, 1 inch thick and 12 inches wide. Now if a piece one inch wide is sawn out of the centre of No. 1 the piece would be shorter than either side; and if the same had been done to No. 2 the piece would be longer. Straight edges can never be made of such lumber.

It is doubtful if there is any lumber known that shrinks as much endways as redwood. The wood shrinks on an average 1 of an inch in 12 feet; but there are cases when it is four time that amount. When window casings are nailed to green rustic, oftentimes the latter in shrinking will pull the frames open and let the sash out.

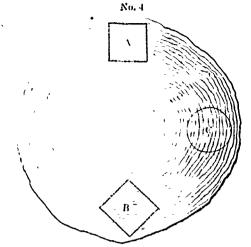
I wish to show now why lumber checks in seasoning. Ninetenths of all the cracking or checking in sea-oning lumber is caused entirely by light and not by heat. Lumber can be seasoned very rapidly by intense heat, without even a check, provided not one ray of light is allowed to reach the lumber



will split while seasoning. For example, let me take a section of made of only one piece. a green log of madrone, blue gum, or any other of that class of woods (which comprise at least one-half of the woods known); we will take a log of 18 inches in diameter and saw off a section 6 inches long, and let it sesson (in the dark if you please).

Here we have it at cut No. 3, thoroughly seasoned and find it about the same dismeter and circumference that it was before grain, but comparatively nothing in diameter. seasoning; we find that the depreciation in size lies in the Vshaped cleft; and this cleft is caused by the wood shrinking very much in circumference, and in diameter nardly perceptible, con-

pieces out as shown in No. 4, two pieces being 4 inches square. and I piece round and 4 inches in diameter.



We find them as shown after seasoning to be in the shape as shown in cut No. 5.

We find that A has shrunk in width at the top ½ inch, and at the bottom 5-16 inch, while from top to bottom it has only No. 5

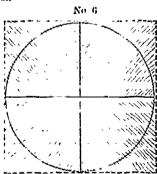






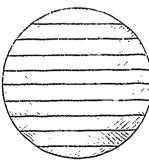
sbrunk 1 32 inch. B we find has shrunk from right to left # inch. while from top to bottom it has only shrunk 1-16 inch, which leaves it in the shape of a diamond. C we find to be egg-shaped; the longest way has shrunk 1-32 inch, while the shortest has shrunk 1 inch. "Well," says one, "what are we to do about this shrinkage, we can't help it, can we?" That is very true you can't stop the wood from shrinking, but you can help using that shrinkage in the wrong direction.

Suppose you have a solid cylinder to make, say, 12 inch diameter and 3 feet long, to be and keep perfectly round. This cannot be made of one piece (even if you had it), neither can it be made of several pieces, unless glued up in the right manner, and with the right kind of lumber, or with lumber having the grain the right way, which should be an angle of 45 deg. It makes no difference how many pieces are used, provided there is no less than four.



Cut 6 is a section glued up of 6 inch square timber.

Cut 7 is formed of 13 inch plank, glued together with the grain running like either No. 6 or 7; once made it will always keep round; whereas, if the timber is put together with the grain



during the process of seasoning. I also wish to show why a log running as it did in the log, it will not make so good a job as if

The reason that articles made of pieces glued together will not warp and twist as much as if made of one piece, is owing to the mixing of the grains, which generally gets mixed more or less, but without any regard to it on the part of the workman. Woodworkers, bear this in mind-wood shrinks in circumference of the

THE COST OF THE BIG RAFT.

eequently the fibre must be torn asunder. To illustrate this more failed. The Telegraph says: "Since the raft has been upon the mill will run for about two weeks more. - Ottawa Evening fully we will take another Section of the same log and cut three waves it has altered in shape considerably. It was originally 55 Journal.

feet broad and 36 feet high. It is now 62 feet broad and 31 feet in height. At high tide the water at the lower end of the raft is 19 feet in depth, and causes the structure to lift a trifle. A num. ber of hydraulic jacks have arrived from New York, and the work of pushing the raft to deep water will be proceeded with at once, Mr. Robertson has obtained some eye bolts with will be placed in the rocks on the ledges on either side of the passage way through which the rait has to go. Hawsers will be attached to these, and the raft will be kept there in position until the tugs arrive to take her in tow. It may interest the public to know how much this great raft cost and how much would have been saved if it had been launched when the first attempt was made. A reportor of the Sun interviewed several of the principal business men in the vicinity of the Joggins, most extensively engaged in the piling business. The result of the interview was about as follows: There are in the raft about 2 225,000 feet of lumber, which could not be carried from the Finger Board to New York in less than fifty schooners. The average price of piling cut conveyed to the shore ready for shipment is 11 cents per foot, There are required to place it on board the vessel 21, which includes the freight and the cost of discharging. This brings the cost of the piling delivered in New York, up to 32 cents perfoot. and in addition the port charges and commission will bring the costs up to 4g cents these charges averaging about § of a cent per foot. An ordinary schooner will carry about 20,000 feet, and her cargo landed in New York will cost the shipper \$825. As there are about fifty such cargoes in the raft, the cost of the lumber, if it had been carried in vessels would have been about \$40,000. The raft, as it stood in August last, when it was first in readiness for launching, was in the vicinity of \$13 000. it to perhaps not out of the way to mention that the builder B. B. Barnhill, lost something like'\$5,000. Already about \$10 000 have been expended in attempts to launch it, which brings the cost up to \$23,000. From this it will be seen that the owners can afford to expend some thousands of dollars yet to launch the raft and land it in New York with a lesser outlay than would have been required had the lumber been shipped in vessels.

FREIGHT RATES ON LUMBER.

The Orillia Packet of a late date contained the following, which will, doubtless, be of interest to readers of the LUMBER-

Before the Railway Commission, sitting last week at Toronto, Mr. J. S. Peckham favored the regulation of freight rates by the railway companies rather than by a court, constituted for that purpose. In the matter of special rates he had been treated impartially. He was of the opinion that the small lumber shippers, whose business was purely local, should not get the same rates as the larger dealers. He had not experienced any local discrimination, that is, between two towns. From navigable points the rates were lower in summer than in winter. That was owing to competition during the navigation season. The question of transhipment was one which a court might deal with advantageously. Mr. James Scott, Waubaushene, said that special rates were a necessity owing to the keen competition between railway companies. The establishment of a railway court would be of immense advantage in settling disputes which from time to time arise between railway companies and individuals. It would expedite a settlement at a small cost, and consequently would be of great service to the community. At the present time it was almost impossible to obtain justice, unless at considerable cost and delay. He preferred a railway court to the common law courts. The question of rates should be determined by the com panies themselves. Mr. Thomas Long, Collingwood, said the rates were lower from competing points than from points where there was no competition. He understood there were special rates, but he had never got any. He had applied for special rates but was not successful in obtaining them. He complained of the discriminating rates on the Northern railway. He had been obliged to close up his flour mill two years ago and had not since opened it, owing to this system of discrimination. The proposed court, if established with full powers to deal with railway matters, would be a great benefit to the Dominion. Merchante were not permitted to ship mixed cargoes of a similar classification and if a carload consisting of one half sugar and the other half rice were shipped the company would charge what was called tariff rates, whereas if the load was entirely made up of either commodity the carload rates would be charged, which were considerably lower, notwithstanding that the carload rates were the same in both instances. Again, the railway companies do not hold themselves responsible for loss in transit of wheat through defective care. Sometimes half of the carload fell through the cracks and openinings of old care, which was a dead loss to the consignor. The terms of the contract were generally for four hundred bushels, more or less, but often they only delivered one hundred bushels and refused any compensation for the loss sustained by leakage. In fact the merchants were entirely in the hands of the companies.

A gang of shanty men arrived from the Nipissing district on Saturday last. They were employed on Mr. J. R. Booth's tow boats on Lake Nitissing forwarding logs to his new saw mill, which was constructed last summer on the edge of that lake. The All efforts to launch the big raft at the Joggins has hitherto winters cut on that limit has been secured in a boom, and the

General News Notes.

Mr. McLaren will open a lumbor yard in Kingston.

Two mills have been erected at Housey's Rapids this summer. A shingle mill belonging to Mr. Love, at Port Sandfield, was recently destroyed by fire.

Joseph Ball, of Bracebridge, has invented a bow-facing-oar, which promises to be a success.

Mr. John Knight, of Elsie, is going to put a million feet or more of saw logs into his saw mill.

The bark Yuba with lumber for Buenos Ayres, after leaving Montreal grounded at Longue Point,

A large number of vossels were loaded with lumber at the Parry Sound docks during the past week.

The last lumber tows to leave Ottawa for the United States perce this season will start early this month.

James Devenport, of Midland, has the contract for building the new mill for the Victoria Harbor Company.

Mr. Bothwell is getting out a stock of pine and hemlock logs and shingle bults for his mill at Cooper's Falls,

Several of the saw-mills at the Chaudiere have shut down owing to the coldness of the weather, and dearth of lege.

The average weight of 1000 superficial feet of Douglas fir lumber is from 3300 to 3500 pounds, and is worth from \$9 to \$25.

Several of Mr. Uliyott's shanty teams have passed through Peterborough for the north, giving quite a flavor of old times. There has been an increase in the traffic of the R deau canal. The lockages have been :- Steamers, 576; barges, 934; rafts, 35.

Mr. B. Adam, proprietor of the new shingle mill at Gatineau Point, went up the Gatiheau recently in search of a timber limit.

The Rathbun company are setting out five or six hundred shade trees in the streets of Deseronto. Mr. Hopkins, Oawege, has the work in hand.

Two hundred feet of the Waubaushene dock was washed away by the big storm. About 20,000 feet of lumber was also washed from the dock.

The Waubanshene mills closed down a few days ago and all the men had a charce given them to go at once to the shanties so as not to lose any time.

The steam barge Nile and two barges are going to Kingston from O:tawa with 340,000 ft. of lumber. The steamer Reliance has been chartered to load lumber for Oswego.

Messrs, Gilmour & Co. have made an exchange of limits with the Mears. Brouson, the former giving 170 equare miles on the Kippewa for some 900 odd miles on the Gatireau.

Mr. J. G. Oliver, of Battleford, whose saw mill was burned down a few days ago, estimates his loss at \$10,000 and does not possess a single cent of insurance. There is now only one mill in

For the week ending October 23rd last, the Chicago building department issued 63 permits for 80 new buildings to cost \$386,-880, against 67 permits for 83 new buildings to cost \$571,650 for the preceding week.

The Rithbun company has purchased from Folger Bros. the charcoal works at Sharbot Lake. The machinery, retorts, etc. will be removed to Deseronto where the experiment of charcoal making will be tried.

On the 19.h Oct., at Carswell & Co's mill, Calabogie, there was cut 100,000 feet of lumber. This is pretty good work when it is considered that the gang only carries twenty-one saws thirty-four inches long, with a stroke of twelve inches.

In Wapella, Man., the firm of Logan & Howell, lumber dealere, have assigned. They were formerly farmers, and it is said possessed little means beyond their farms, which are heavily encumbered. They commenced in March last.

Messre. G. Benedict & Son's law suit in connection with the Scott timber limits has been decided in their favor after lengthy litigation. This decision will have an important and beneficial effect upon the future prosperity of Deseronto.

Mr. Wm. Richards, the superintendent of the Upper Ottawa Driving Company, has commenced the construction of two new driving scowe, those now in use being found too small for the large gang of men employed driving during the summer.

The tug Col. By and barges took their last load of the season at Burritt's Repids on Nov. 4th for Cape Vincent. The tow has been freighting ties and posts for Mr. Hebron Harris all aummer. who has an extensive contract with American railroads.

An epidemic of some kind has broken out in Broth's shanty on the Mississippi. Five men arrived at Dacre last Thursday, com plaining of chilliness, prostration, vomiting, headache, and pain in the back. One was so low that a clergyman from here was telegraphed for.

The number of pieces of timber which passed through the Gov. ernment works, on the Madawasks River, during the current season of 1856, was 811 880. This amount was composed of 20.011 pieces of equare timber, 20,326 pieces of dimension timber, 761,805 saw-logs, and 9,738 cadars.

The Chatham Manufacturing Company received from the feet in length and 30 inches in diameter, which would contain over 3,000 feet board measure.

A Minneapolis despatch says a synditate of Canadian lumbermen, with partners in Minnesota, have acquired 500,000 000 feet of pine timber in that teste, and will gobble up about one half the state in timber limits. Treation with the Indians on these reserves were, it is said, made in the interests of this syndicate.

An immense dry lumber shed is now being erected at Descronto. It will be arched over and its dimensions will be 600 feet long and 40 wide. The whole work is under the supervision of Mr. E. H. Cooks who has been longing for such a shed for some time. He will surely be content with such a mammoth structure.

Ottawa lumber merchants cannot find sufficient railway care, or boats for the transport of their lumber, and con-equently shipments are largely bindered. Rail shipments will likely double this winter, which will be a great benefit to the city, affording a large amount of employment to laborers, and men having teams for hire.

A young man from Irwin's shanty had a portion of his foot almost completely cut off with an axe. He was brought down to this village on Sunday and had a portion of the injured foot amputated by Dr. Giles, who performed the operation with great skill and success. The young man is progressing favorably .-Minden Echo.

Mosars. Gilmour & Co., of Chelsea Village, closed their mills for the scasen a few days ago. They are get mg out timber for the construction of a new saw mill at the Peche. The frame work and the foundarion will probably be completed this fall, and the new mill will be in operation by the time the midsummer drives arrive next year.

There is quite a large fleet of vessels in the harbor lowling lumber and a large number of vessels are expected before the close of navigation We understand that several million feet of lumber which has been sold this fall will have to remain nere all winter owing to the difficulty of chartering vessels on which to ship it. Parry Sound North Star.

Mr. R. bert Bick, of Bubcaygeon, has accepted a responsible and lucrative position in the Rathbun Co., at Desoronto, as manager of their shingle mill. Mr. Box's skill as a shingle maker is such that the value of their shingles made has been considerably enhanced, and though he gote a good salary the Rathbun Co. will make a good thing out of it.

The Whithy Chronicle says that the failure of Mesers. Trouveo It is stated the liabilities of the firm amount to \$100,000, the nominal value of the assets being put at a good deal less. Ontario Bank is the heaviest creditor and is said to possess the only security held by anyone.

The Board of Trade has taken up in earnest the question of the graving dock advocated for Montreal by the Witness, and has addressed a letter to the Harbor Commissioners, stating that the immediate construction of the dock is necessary, and urging the Harbor Board to commence to agitate at once for the scheme, as well as to open negotiations with the Government.

A cablegram to the Halifax Herald from Pierre, Miq., eays a large barque, laden with timber, was on fire nice miles south-west of St. Pierre on the 9th Nov, drifting east. She was ablaze from atom to stern. Her name was obliterated, but the word "Swansea" was visible. went to the score. The fate of the crew is unknown.

Mr. Allan McPherson's saw mill has been shut down, after a satisfactory sesson. The shingle mill will run all winter. Mr. McPherson has done a very good business this year, in lime and building stone. He has purchased the limits in the South Western corner of Oakley, and their farms, from Mr. R. C. Strickland & Co. ; also a limit in Ryde, from the Georgian Bay Lumber Co. He will get out a large stock for the mills for next year. His shantics are in full operation.

The "big trees" of California will soon be extinct. Seventeen lumber companies, owning from 3000 to 25,000 acres of redwood foresteach, are waging a war of extermination with all the weapons known to the modern logging camp. The demand for the wood is unlimited and all the mills are kept at work to the limit of their capacity. The forests are large, but the forces employed against them are swift and irresistible.

The receipts of Southern yellow pine at New York from points in the Carolinas, Georgia and Florids, within eighteen days last month, exceeded eight million feot sawn. Savannah furnished the largest quantity, 1,452,000 feet. Brunswick nearly as much, then Jacksonville and Fernandins, both Florida ports. Wilmington and Georgetown and Norfolk sent the least. Darien furnishes in that period 500,000 feet hewn and 440,000 feet re-sawn.

About 100 lum bermen, encs a ast week, have just left to work for the winter in the lumber by eas at Port Arthur. No little difficulty was experienced in securing the right kind of men. Many refused twenty-four dollars per month and "all found"; and several who have signed the contract, and left their values and watches with the employing agent, falled to put in an appearance. Good men were guaranteed from twenty-four to twentyeig't d illars per month, all found.

Messrs. Thompson & Son. lumbermen of Peterborough, have vicinity of Kent Bridge, the other day, an oak log measuring 73 commenced operations for the season of 1886 7. A gang of men have been at work in the township of Manvers for the last month or more, and when the winter sets in two more games will be dispatched to the Georgian Bay district and Ottawa River district restree ively. Mesers, Thom; son & Son cor fine themselves to the square timber branch of the business. Last year they got out a large quantity of white pine masts and other kinds of square timber. This year they will take out a considerable quantity of ash square timber for export to Europe.

The firm of Gilmour & Co. state that they have no camp known as Gilmour's Camp, and that the reported murder and outrage there is probaby a fabrication. They have inquired of their agent at the the Desort, and he reports that nothing is known there of the alleged tragedy. The woman and her daughter said to have been the victims of the outrage were not living in the neighborhood, having removed to Mattawa some time ago. These statements pretty well discredit the original story as published in these columns, but it seems hard to believe that anybody would deliberately r - not such a horrible yarn, either for profit or amusement.

Several so idents have occurred in Mr. Jos. Gaudette's shanty at Barry's Bay, on the Madawaska river, during the past few days, one of which is of a serious nature. Poter Kolly, near Mount St. Patrick, was drawing logs through the bush at this shanty, when o's of them swung round and struck a dry tres which broke off and struck K-lly on the back of the head, knocking him senseless. He was carried to the shanty and cared for by his fellow workmen. Two days after he took sick fits, and Dr. Kinder was called in, who administered to the sufferors wants as best he could We understand that Kelly's mind is deranged through the eff ctas f the blow. There are six men laid up in this shanty with cuts, bruises, otc.

A few days ago the additional applications made for timber berths at the New Brunswick Crown Lands office, were disposed of by auction, all the applicants obtaining the lands at the upact price, without competition. The licenses issued were as follows: Mr. Henry O'Leary obtained lot No. 47, Upsalquitch River, 2 square miles, and No. 48 Upsalquitch River, 2 square miles; Mr. Charles Tracey obtained No. 49 N. E. branch, Yoho strosm, Sunbury, 2 square miles, and N . 50, head of Little River, Sunbury, 2 square miles; 2 square miles in the same locality went to Mr. George Hunter; No. 51, Nepisigut River, 3 equare miles to K. F. Burns. Further applications have been made for twenty-one miles of timber berths, which according to the Gleaner, are to be eold this week.

A couple of months ago a raft of 3,000,000 feet of logs was & Co., lumbermen and millers, is the talk of the town this week. made up at the mouth of French river, Georgian Bay, to be towed to East Tawas for the Emery Lumber Company by the tug M ck The ing Bird, the contract guaranteeing the safe delivery of the logs. The tug pulled on the raft eight days in bad weather and then abandoned the job temporarily, ongaging in wrecking expeditions. Two weeks ago she went back and took hold of the rait, and got out into Lake Huron, when a big blow came on and she was obliged to go back under the lee of the islands at the mouth of the bay where the raft lay at last advices, and as the weather has been unsettled sinco it is uncertain when the raft will be delivered, The Kate Williams brought over the log barge. Wahpoerotie to Tawas with a cargo of logs last week.

The steam barge N le with her consorts, the Isis and Bedford, have finished their season's work on the Ridgen Canal. They have not met with an accident, a fact much to the credit of the Captain and Engineer. The Dominion Government should deepen and improve the Rideau canal without delay. It is becoming more and more prominent as a factor for the economic movement of lumber and farm products. Many steamers are plving on t'at route, on which are many flourishing towns, such as Swith's Falls, Merrickville, Westport, &c. It is an exceedingly pretty route for tourists to Ottawa and other points, and with deeper water an increased army of American tourists from the Thousand Islands would patronize the route. Members from Central Outario should press upon the Government the importance of improving the canal and that without delay .- Deseronto Tribune.

The fire at Conroy's Mill, Deschenes Lake, was confined to the lumber yard where it originated, although for a time it appeared as if it might make a clean sweep of the mills and village. acres of piling grounds were burnt over and the fire continued to smoulder all night but was carefully watched lest it should be communicated to the other property. It is supposed to have originated from the pipe of some emoker, although smoking is strictly prohibited on the grounds. The mills had not been in operation for two years, consequently the docks were clear of lumber. Mr. N. E. Cormier, M.P.P., of Aylmer, on hearing of the fire, immediately closed down his mill and sent his men to assist in putting it out, while the C. P. Railroad generously put an engine and train at the disposal of such Aylmerites as desired to go to the fire. The two companies worked away with a will, but, notwithstanding their efforts to extinguish it, the yard hurned with great fierceness all the afternoon, being filled with comparatively dry material. The fire was conquered at about eight o'clock in the evening. The main property, the saw mill, grain elevator, and grist mill were not damaged in the least as well as the numerous other buildings on the premises. The whole property was insured for \$80 000, but the damage sustained is comparatively light, - Ottawa Evening Journal.



DEVOTED TO THE LUMBER AND WOOD WORKING INTERESTS OF THE DOMINION.

PUBLISHED MONTHLY BY

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made parable to A. J. Mortiner, I electrorough, Ont.

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The CANADA LUNBERMAN is fied at the Offices of Masses Savuel Dracon & Co., 144 Leadenhall Street, Landon, England, who also receive advertisements and autocriptions for this paper.

Our Readers who write to Advertisors in this Journal, will obl go both the advertiser and Publi her by m ntioning the 'Canada Lumberman."

PETERBOROUGH, ONT, DECEMBER, 1886

A LARGE amount of int-resting editorial and news fems has bern laid over until next issue, owing to a too great demand on our since.

The area of timber limits under I cense on the Ottawa, Ontario, 7,153 unles.

An International Exhibition of a peculiarly interesting charactor-that of Railway as plasmes and Industries-is to be held t Paris from May to October, 1887.

THE death is reported of William Sharples, head of the lumber exporting house of Sharples & C ., Quebec, which occurred Nov. He was a very prominent and highly esteemed member of the trade in that city.

W. G. PERLEY, lumi o man, Ottawa, is in the field as a candidate for election to the H use of Commons. Mr. Pe ley runs as an avowed supporter of the conservative party. C. H. Mackintush may be thrown aside.

THERE seems to be a big trade doing between the "Flowery Land" and British Columbia, as we learn by latest from Vanconver that the hi . Beaconsfield was loading with 1,020 000 t. of lumber, valu-11,800 dole, for Peru, and the barque Nanaimo was taking 45,000 at to Trentsin, Coina.

THE Export Lun ber company of Montreal and New York report the total chipments of lumber from the river St. Lawrence to the river Place during the senson of 1886 an 29 088,201 feet, of which 21,782 604 feet was pire and 7 305,600 feet spruce. total ship-ment in 1885 was 31,344 543 reet and in 1884, 36,938,548.

The quantity of square timber, demension timber, saw logs, and o-dars which passed through the Government works on the Madawaska Roor during the summer of 1886, is as follows:-Square timber, 20 011 piec +; dimensions and boom timber, 20,326 picces; saw l.g., 761,805; c dar., 9,728 Total number, 811,880.

WE have received Vol. 1, No. 2, of the Kansas City Architect and Builder, a nest 16-1 see montily. It is carefully edited, and the opposings and general typ graphical make up are first-class in every particul r. Publications of this nature are plentiful ner as the lines, but the new aspirant looks healty enough to live to a good old age.

Makers of word working machinery, both in Canada and the 14 wood establishments.

Ir is evident that throughout the United States and Canada, homlock is gradually gaining ground, and the prejudice which has ex-ated in the past regarding this wood is a owly but euroly disappearing. The stready rapid decrease in the volume of white pine will of i-relf have the effect of bringing hemlock in more general use for dimension and bill stuff.

"THE FOREST AND FARM LANDS OF NEW BRUNSWICK" WAS the ti-le of a caper read at the Colonial and Indian Exhibition recently by Mr. W. F. Best, analytical chemist, of St. John, N. B. A number of limilight views of account, &c. specially prepared to illustrate the paper, were exhibited, tog-ther with sam-L'es of forest and farm products.

MESSES, McCool, Doran & Co. have received at Quebec a ratt of square white hine timber, containing about 100,000 ft. at Bauff, in the Rucky Mountains, and propose spending a week square and 60,600 waney, with an average for the latter of about 54 ft. 184 in. girth. This has been taken, we are informed, from obtain from Mr. Hotchkiss his views concerning the great timber Lako Esperance, on the Otiawa River, about 45 miles further up than any yet taken from the Ottawa district.

Among the many new advertisements constantly appearing in this paper, we have pleasure this month in calling attention to that of Messrs. Northey & C., Toxonte, manufacturers of steam pumps. Many of our readers are alroady familiar with this firm, but since there last anni uncement in the LUMBERMAN, extersive improvements have been made in their o'l brated pumps, which entitle them to rank second to none in the market.

ONCE more we would make a strong appeal to our readers who are in want of machinery, and who wil's to our advertisers, to be always particular to mention the Lunberman in every case. The favor we sek incurs no extra work on the part of the correspondent, but always helps the paper. Will our frierds kindly boar this in mind, and we shill endeavor to reciprocate the favor by supplying the LUMDERMAN in the most entertaining shape presible.

A FEW days ago we took a input over the Northern and North. western Ra Iway from Toronto, and pere particularly struck with er;" "Too C. lender-old and new styles;" and "A system of out the new and e'c, and conclies which have recently been introduced on the main line. With the opening up of the Calendar branch of the C. P. R. the Northern sailway is likely to become a first. class line. Manager Barker and the efficials of the Northern deserve credit for the .x . nerve improvement now being made.

FOR the fi at time tile LUBBIBHAN takes pleasure in introducin to privince of Quebec, is 9.732 square miles; in 11.8 to its readers the well known him of Cower & Co., of Galt, Ont., manufacturers of all kinds of wood-working machinery. From our personal knowledge of this firm's manufacture, we have no heritation in any ingitat their machinery standardound tonone manufactured either in Canada or it o United States. All inter. ested in this class of machinery should send for catalogue, and read the announcement in this issue.

> THE tests of Colenial woods recently made in England, an abbreviated report of which at pears on another pige of the Lum. BERMAN, certainly did much to bring the superior qualities of some of the timbers of Canada before the notice of those in the old land interested in their employment. Among the Canadian specimens submitted to this prac ical test were the Douglas fir, and swamp or black seh, butternut, white fir, and iron wood, all suitable for various forms of joiners' work.

> THE Er glish Commissioners of Forests are planting extensively on the Crown property in the I le of Man. About four midions of trees have been planted on mountain land during the last three years, and the work has proved so successful that it has been decided to extend the number of trees annually. The planting is d ne almost entirely by native labor, under the superintendence of a competent forester. What a grand area there is in the great Northwest of Canada to carry out a similar project.

> MICHIGAN and Canadian lumberman will be interested in the fact that plune are being made for the deepening of the channel of Niegara river from Buffalo to Tonawanda to 18 feet. There is barely 14 feet at present and the channel is so circuitous that the passage of vessels heavily lacen is attended with much difficulty and danger. Though it has often been desirable to load boats bound for Tonawards more deeply than is the present custom, the narrowness and shallowness of the course has deterred owners and shippers.

Mr. A. W. WRIGHT, commercial agent for Canada at the Colonial and Indian Exhibition, who has just returned to Canada, during the course of his remarks to an Ottawa reporter said :--"There is also a fine demand for Canadian timber, not, however, the timber which grows in the forest and which is the only kind mas ufactured here but the second growth which grows in the clearing. I found out that if this second growth timber which is United States, have done an unusually large trade during the past now considered by lumbe men as useless, on account of its small The extension in lovements which are from time to time size, was manufactured and sent to England it would meet with being introduced in this class of machinery has extended the field ready and good sale. There is also a fine market for Canadian of usefulness, and almost cutively done away with manual labor hard woods, but they must be carefully manufactured and selected in order to meet with ready sale,

An order in Council has been passed amending the present regulations relating to railway lands in B ltish Columbia along the route of the Vancouver I-land Rollway. The amended section reads. "No tumber shall be granted for a larger area than 2,000 acres of land for each 25 000 feet board measure of lumber that the mill operated in connection therewith is capable of cutting in twelve hours, nor shall the license be granted for a I nger period than live years. The license shall not be transfer. ablo and may be surrendered at any time.

THE secretary of the Lumberman's Excharge, of Chicago, has been granted a 30 days leave of absence, and in company with a another well known lumberman, started via Canadian Pocific railway, a few days ago, for Victoria, British Columbia. The party is t ad visi ing the newly discovered anthracite coal mines camping in the fore to of the Pacific slope. We shall endeaver to resources of the Pacific province of the Dominion on his return.

Ar last, after months of discussion, the question of a lumber exchange for New York, has assumed practical shape. Consignors of hardwood lumber to that city have been considerably inconvenienced in the past by the faulty inspection methods which have sillicted that renter of trade, and it is conceded that the present organization will do away with that d fficultyae well as many others. The new institution already appears to be in good wirk irg shape, with abuidance of officers and committeemen. Toe reports give are mass of something new and possibly definite in regard to the neg oction there.

THE current issue of The Office, pullished monthly in New York, a copy of which has been sent us, contains much that is of interest to business men and accountant. In the first place, as an enterprise it is unique. It is the only paper appealing to office men and devoted to the advocacy of better methods in office work. Of the contents of the November number we were particularly pleased with the articles entitled: "Wanted-a bo k-keep records for foundry work." The cost of this publication is only SI per annum, and it should succeed.

VERY litt'e, if any change has taken taken place in the English lumber marke since our last issue. The same dull and depressing is fluences which have been at work for many months part still exist, the demand rem ining restricted and the imports in exc sa of the requirements. One or two in pertant factures have been chronicled, the princ p lone being a large builder and contractor at Cholera, with har ilities of about £220 000. Each recurrer ce of such even's further weakens the already ineral le condition of the trade, and it is generally thou, ht that the next few mouths will be an anxious time in m ire quarters that one.

THE six'b volume of the LUMBERMAN is brought to a close this menth, and a new volume will con mence with the January number. Improvements will further be made in several important mechanical details, and the best possible attention will be exercised in the editorial conduct of the paper. The editor feels that in some degree he has new learned the wants of his constituency of readers, and that he is therefore better prepared for the future than in the past to serve them acceptably. The policy of the paper will be the same as in the part, samely, services ble and instructive to all engaged in the branches of trade which the LUMBERMAN claims to represent.

It is of service to observe what sort of wood is exported to foreian markets by our American neighbors. We fin!, for example, that the shipments of wood from the port of New York from October 13th to 30th last, included cedar to Bel. uim; cedar, oak and walunt to France; cedar mahegany, perwood, walnut and white-wood to Germany; white-wood to Holland; pine lumber and shingles to Hayti, Porto Richard the British West Indies; hemleck, maple, cedar, persimmon wood, oak, mahogany, walnut and pine to Great Britain; pine (315,000 feet), besides sah, oak, poplar and walnut to the Argentine R:public; pine (222,000 feet) and planks to New South Wales.

A PACIFIC cable company, which proroses to make telegraphic connection between England and Australia, via Canada, is about to appeal to the public with a prospectus asking a capital of £2,000,000 stg. An Imperial and Colonial guarantee of £100,000 is said to be looked for: Canada being set down for £12 000, Australia for £38,000 and the Imperial government for £50 000. Hawaii has promised £4,000 a year, and it is admitted that this is the only promise to far obtained. It is very doubtful whether the £100,000 subsidy will be got. A six-penny Atlanticrate; fire cents across Canada, four shillings a word from Canada to Australis, are said to form part of the scheme. There is and indisposition on the part of the British public to believe that all this will be accomplished; and the details may very likely be modified before the propectue, of which a draft has been made, is finally, decided upon.

WE have pleasure in again calling attention to the advertisement of the William Hami'ton Manufacturing Co., of Peterborough, which appears on second page of cover. We shall refer to this firm at further length next issue.

POREST LEGISLATON IN CONADA AND THE UNIT-ED STATES.

The course pursued by the Dominion Government in placing an export duty of two dollars per thou-and teet up maprice and pine legs, has aroused the American press and pub to to a sense of their true position regarding the forests of that country. many years of unnecessity slaughter, Americans fied that their timber resources are rapidly giving out, and for this reason the lumbermen of Michigan and Wiscinson, in particular, have, during the past year or two, turned their attention to the forcets of Canala. They quietly bought up the right to cut over extensive tracks with the intention of having the logs towed across the lakes and cut up in their own mills. There would have been a double advantage in this operation; material would have been supplied to feed established mills, and the manufacturors would have escaped the import duty of \$2 per thousand feet of manufactured lumber, impised by the Givernment of the United States on all foreign write pine and spruce entering that country.

The Dominion Government very wisely does not sell its forest lands, but only the right to cut tumber on them under certain re strictions, and has failed to see the advantage of such operations. taking the ground that as long as the market for Canadian lumber in the United States is restricted by an import duty, American citizens, if they want to manufacture Canadian lumber, must do it in Canada, or pay a good round price for the privilege of sawing it at home. No unprejudiced person would attempt to deny that this is the only wise course to pursus. This is not the opilitio, however, of the owners of saw in lls situated on the sheres of the groat lakes within Uni of States territory. They are lead in their denunciations of the short-sightedness of the Camptan policy, and foremost among these critics we find cortain class and other journals of the Northwest, which, strange to say, in the past upheld with the greatest persistence the wisdom and necessity of collecting an import duty upon lumber manufactured in Canada. "Consistency thou art a jewel !"

The New York Sun in treating upon this question has the following to say :-

following to say:—

"There should, of course, he free trade, or, at least, reciprocity in lumber. It is monatrous that thinks should be allowed to go on any long ruse they are. It is an outrage upon Augurean presperity; it is a disgrace to Autorican intelligence that we should continue to shut out Conadian lumber from the markets of the United States. The whole country is made to suffer morifor that a handful of pine land owners and manufacturers may become inorticately weakley. Every building errored in the Northern States is made more expensive, every Northern farm is made leave valuable in the incleased cost of fencing by this dury. It causes an unnecessary and inexcusable exhaustion of our northern forests. It is a shame and an outrage which the American people cannot longer afford to submit to."

With the already heavy export duty, and the nossibility of this

With the already heavy export duty, and the possibility of this being increased at the forthcoming session of the Dominion Government, it is evident that the Americans will have to adopt some policy calculated to better their condition. Our contemp wary above quoted seems to think that it has found a way to get out of the difficulty, by doing away with the protective duty on Canadian lumber and placing it on the free liet.

Bit the question of duty alone is not the only consideration with Canadians. Every one is familiar with the fact that in Canada we have an almost unlimited supply of all kinds of timber, but the country is still in its infancy, and with the great influx of pipulation which is sure to come to a country boasting of the natural advantages of which we are the possessors, the fact is apparent that we cannot afford to alsughter our forests to any great extent for foreign export. Would, as we have said, we have immense timber resources, it is also a fect that we also have a great track of prairie country, the demand from which will be great slew years beace. Foreign export would, of course, tempo rarily enrich out lumber manufacturers and dealers and the public at large, but this should be a secondary consideration, when future requirements are taken into account. If this matter was more fully taken into consideration more deastic and c marchen sive measures to prevent exportation would be resorted to.

THE BOUNDARY QUESTION AGAIN.

THE famous appeal of the St. Catharines Milling and Lumber Company, appellants, and the Queen, on the information of the Attorney-General of Outarie, involving once more the much dist u ed boundary question, was argued before the full bench of Supreme Court, at Ottawa, on Saturday, Nov, 27ch. Mr. Dalton McCarthy, Q C., appeared for the appellants, and Hon. Davil Mills, Q C, ter the Ontari . Government.

The case is an appeal fr m the judgment of the Court of Appeal of the Province of Onterio, delivered in April last afficultuk the judgment of the Chancel or of Ontario, declaring that the appellants had no right to cut timber on certain lands mentioned in the Stament of Claim, res raining them from trespassing thereon, or from removing any timber standing or already cut. The land on which the lumber company operated, according to the assertions of the respondents, hes in the Western part of Ontario, north of the height of land, and is a portion of the territory, which at the time of Confederation, was claimed by Canada as part of Upper Canada, but the right to which was disputed by the Hullon Bay Company. The right of U, per Canada to this territory had been asserted and instated upon by the successive givernments of the Pervince of Canada for many years before

Intior surrendering all claims to Her M j sty. By an Order-in-Council passed in June 1870 the Dou ini n was given Rupert'e Land and the North West Territory, not theretofore belonging to any province. II wever, the Territory which is cludes the land involved in this suit belongs to the Octario Government.

The St. Catharines Mi ling and Lumber Company on the other han i, maintain that the lands upon which they operated belong to the Dominion; that \$4,125 was paid for the privilegeof cutting the timber. The grounds upon which the appellar to besed their contontion that the lands and timber in question are the property of the F-d-ral Government are several in number. One was that the laid in question was until recently claimed by the tribes of Indiana who inhabited that portion of the Domirton, and the claims of these trives have always been recognized and admitted by the various Governments and by the Crown, and such Indian claims are and always have been, paramount to the claims of the Province of Outario. The appellants also held that the Federal authorities in consideration of a large expenditure of money made for the benefit of the Indians of the Lake Superior d strict, have acquired by purchase the Indian title to the land and the tluber located therein and by reason of the acquisition of this title as well as by reason of the inherent right of the Crown, the Dominion and not the Province of Untario, has the right to these limits.

The re-pondents sesert that the defence is made and carried on at the expense of the Dominion Government. The case in the courts below has so far gone in favor of Ontario. Mr. Walter Cassels, of Toronto, as well as Hon. Mr. Mills are watching the proceedings on behalf of Premier Mowat.

EXCHANGE ECHOES.

Contemporary Opinion on the Various Matters of Intereat to the Trade.

Monetary Times.

The statement is made without qualification, though it appears to lack confirmation, that the Grand Trunk railway is to form a connection with the Northern Pacific, and that an arrangement to that effect has been made. A road is being built on the south side of Lake Superior, which will connect with the Northern Pacific, at Duluth, and with the Grand Truck at Sault Ste. Marie; the latter company ox ending its line from the Midland, near Atherloy, to Sault Ste. Marie, crossing the French river on its way, near the month, where a series of Islands will make the bridging easy. The capital necessary to carry out this project, it is a ided, is at the disporal of the Grand Truck. The expectation is that a large traffic will be drawn by this road from Oregon, Wyoming. Dakota and Minnesota, and part of Wisconsin.

Boston Journal of Commerce.

Cold weather to coming on where there will be an increased demand upon the boilers to supply the steam furheating, new ri ke to incurnew points to look out for, and more work for the engineer. Dan't lot it come upon you all at once but get ready for it. Give your clant a thorough overhauling and get it into the best possible condition. See that there is no possible place where freezing can cause you trouble. The feed and water pipes, especially those which convoy hot water, are apt to become choked by corrosion in a year's uso. Now is a good time to clean or replace them. See that the valve siems and joints about the mill are tight so that you will not be called in ewenty directions at once to stop leaks the first time steam is let on. A sengineer can in ke his own situstion a great deal more comfortable, and give a great deal more satisfaction to his employers by exercising a little forethought in such matters.

The Timberman, Chicago.

It is gratuying to note that the observer who has been so long in the work of investigating northwestern market conditions that not long since he fo liuto the error of gravely asserting that there was 'no pronounce i scarcity of stock anywhere," is beginning to realize what has been plain enough to must members of the trade for weeks back-that there is less lumber in sight than there has been at this so soon of the year for a long time. That "the trade will go into wluter quarters with certainly no more lumber than will be required for an ordinary spring demand," to surely putting it very mildly. More than this is really true. As a matter of fact the supply of dry lumb r-which in these days of pound freights is all that can be regarded as entering into consideration -is so much less than an average demand warrants the trade in carrying over, that there is every reason to lock for much difficulty in filling orders. The lack of assortments is already sufficlently "pron unced" to make it evident, and it is due to the welfare of the business and of its members that the fact should not be ignored or its importance underrated.

Timber Trades Journal, London, Eng.

The comparative state of the dock deliveries is generally the first thing the trade turn to in the hope of finding some signs of improvement, but latterly we have been unable to say that things In this re-prot were any botter. Last year's consumption com-Government until 1870. The Federal authorities in that year a million pieces of deals and battens less than the stocks a year

effected a compromise with the Hudson's Bay Company, the since exhibited. This considerably helps the market, and affords a mo grounds for prices advancing with the spring, before there is time for the new season's goods to cut in an at pearance. Wi h regard to fl oring boards, these depend entirely on the co ssump tion, which, fortunately for them, has kept fairly good all through, and had the market not been so over borne with batters this year the probability is that prices would not have gone below last your's. Shipton made a great reduction in cargo quotations some three years sgo stocks borry heavy and the markets here dull. The unwisdom of this porty has been observable in the difficulty that has since been experienced to getting back to their former value. Shippers on the Belt can a stone period in the history of the trade used to regulate the markets here, but since the production has so enormously increased there is always suffi cient stock carried forward to prevent any scarcity.

Northwestern Lumberman.

The lumber trade has reathed such an over zealous state that there is an actual competition between buyors to see who shall get the better cuts of the mills. This strile is mist sollve be seen eastern and western buyers at lake points. Throughout the pres ent sea-on, until recently, competition among buy ors at manufacturing points has been so charp that much of the p ofit of this year's business has been lost to the dealers singly because values of bulk lumber have been forced a little higher than was warrantod by the distributive demand. As a matter of fact nothing has been developed this year to give lumber at the mills any basis for higher prices than prevailed last year. The consumptive demand. while this year greater in some directions than it was in 1885, has not, on the whole, shown any appreciable gain. It has lately been observed that buyers at the mills have not been plenty. The trade has about all the lumber it wants until a more urgent consumptive demand is developed. This shows that the excitement in the lumber trade has, the present sesson, been at manufacturing points. Eis ern buyers have been p'entier than u uil at weatern points, so that western dealers had to go into compedition, with them in securing stocks, but all the time the later have known that they were running some risk in doing so. The present dilamma doos not necessitate lesson stock in yard, however. The promise of a good trade next February, March and April is opcouraging, while stocks are sexuely a nate for an urgent requirement. A lively apring trade would take the dealers out on to solid ground again.

The Timberman, (Chicago.)

Paper by the ream, lend pencils by the dezen, and printers' ink by the ton, have been used up in yours past to urge up in lumber. makers the necessity of oconomy in all their works. ticular has it again and again been set forth with all the vigor and eloquence that is inseparable from edit rial utterances, that they should study and plan-even if it should be necessary for them to he awake nights to do it - to the end that every portion of the mill product should be made to bring in someth ag, he it little or much, in the way of hard coin or colep paper that will serve to make a ralance in the bank. Possibly it is because such advice fell into fratiful soil, but the chances are more probably because the natural tendency of the business has long been in this direction, that so little of the contents of the log as it flats down the stream, fails to reach a market and transform itself into cash. Even the saw-dust select sour mill | ointe, and the edgines and refuse are made to serve a profitable purps se. The short lumber and ends which were once piled up in the water to make docks, now had a market, when the mill man is en'o prising enough to seek it out. Not all mill men or lumber dealers may know that lumber has been sold on Lako Michigan this cason only eightoen inches long, and from that up, in lengths increasing by aix inches hun it is nevertheless true, and true +1-0 that good prices were obtained for it. One mill owner sold a quantity under ten feet longstock which was formerly considered to two rabshipting. Forlengths of eighteen inches and up to forty-two, \$3.50 was obtained for the culle, and \$5 for the common and bet er, celivered in Chicogo. For four and five feet the price was \$4.25 for culls, and \$12.70 for the good stock, while for lengths over two feet \$18.50 was realized, the stock running .n quality equal to about A colect. The average on about 1 500 000 feet of such lumber so'd, reached \$11.70. which it must be admitted is better than u me the stuff to make new docks. The lumber was bought and used for mar ufacturing purposes, and doubtless answered the buyer's old nearly as well as if it had been of the lengths rec guz-d as standard by the trade. The demand for such odd stock will unquestionably become a feature of the rade and lumber makers will be doing themselves good service to cultivate it.

Steam Engines.

A young man in the interior of Lows has invented a change in the construction of engines. He dispenses with the seam chest and the governor-balls, and in place of the latter he employs a pendul m which permits the outflow of stoom at an unvarying speed, but the slightes' increase of velocity in the engine lessens the time that the steam has to escape into the cylinder. The apparates thus effects an instantaneous check upon its own pared with the present is decidedly unfavourable, and leaves us irregularities, which are comparatively slow when the governor to make up a shortage of over 23,000 standards. The present is used, and it has the additional advantage of using less steam Calfoderation, and continued to be insisted upon by the Domini on season is fast approaching its conclusion with something like half while it largely simplifies the working gear. A trial engine has been constructed, and is said to work well.

EXTRA HEAVY PLANER AND MATCHER.

. Illustrate on this page an Extra Heavy Planer and Mat-W cher, menufectured by the Egan Company, Cincinnation Ohio. It is one of the best and most improved machines of its kind made, and the detail of a semetraction for strength, strain and convenience, is of the most improved and advanced ideas for building first-class machines. All the latest points are embodied, and many new advantages specialty reculiar to our machine, and covered by our exclusive patents.

The Frame is cast plain, and is thoroughly braced and ribbed on the maids, giving great strength and presenting a very smooth an I even face on the outside. The edges are gracefully curved so as to nearly double the stren th of the castings.

The limb is of cast stort and slotted on all four sides, and the cylinder is double belted. Any kind of a knife can be placed on this head, as the double pressure bars on each side of kinfe are adjustable to or from the kuife. Mouldings, patent siding, cave siding, ship lap, beiding, and work of that class can be done on it to the best advantage.

The Patent Adjustable Pressure Bars are placed on each side of knife and inside the feeling rolls, holding the lumber brinly as it is being planed. These bars are adjustable at will of operator, so as to accommodate pregular knives and allow a full clearance.

The Feed is nowerful and consists of four 6 inch feed rolls, geared in a superior manner; there are two changes of speed, viz: 45 and 65 feet per minute. The machine is of large range, planing 24 inches wide, 6 inches thick and matching 14 inches wide. Our patent adjustable box is a very ingenious contrivance, allowing the roll to adapt itself to any heard of uneven thickness, thereby

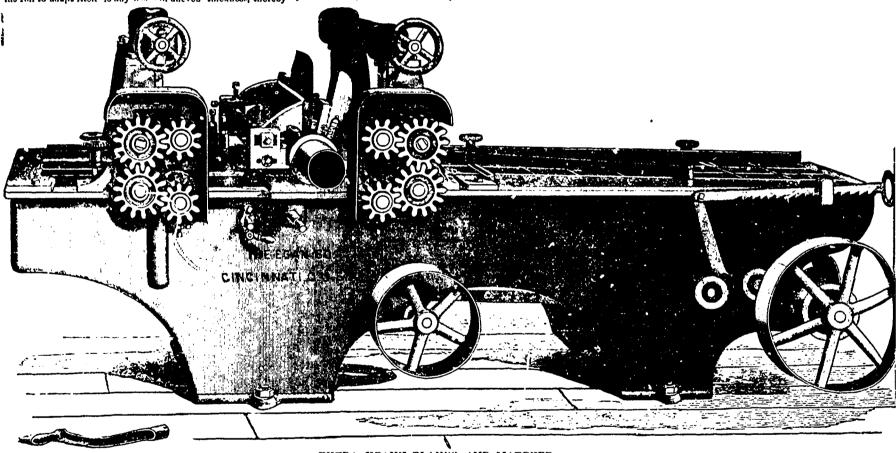
bers suitable for Carriage Building," in the course of which he suggested that if a timber bureau or exchange were organized in connection with the contemplated Imperial Institute, dealers might be made aware of the anticipated wants of consumers, and producers could be instructed accordingly. The following is a summary of Professor Macoun's paner ..

Commencing with a sketch of the lumbering centres of New Brunswick, Quebec, Ontario, and British Columbia, the Profesor showed that there need be no uncertainty about the supply. Were there (he suggested), a timber bureau or exchange organ ized in connection with the contemplated Imperial Institute, dealers might be made aware of the anticipated wants of consumers, and producers could be instructed accordingly. There need be no fear of the supply of spruce and larch, and of the coarser kinds of pine lumber, giving out, as Canada had immenso tracts, unfitted for agriculture, covered with this class of timber. It was true that fires did great damage every year, but that applied more particularly to pine forests, as these grew on dr. and generally sandy soil. Fire passing through a Canadian forest simply means the re-covering of the land with a different variety of tree, as pine lands, if the soil be fairly good, seldom become covered with pines again. Proceeding then to speak of the suggested School of Forestry for England, Professor Macoun went on to treat the real object of his lecture. The elastic woods valu able for carriage building included the shell bark bicke y, bider nut hickory, white heart hickory, pic nut hickory, white ash, black ash, rim or red ash, chestnut, cherry or black birch. Else ticity he considered to be a property of young wood, and the greater the exposure the more it is produced. Should this be a

considered of no value, as there is no demand for it. This is the class of wood they want but cannot get in England, because their own country does not produce enough of it. British dealers rejected Canadian forest-grown wood and say it is of second class quality, and that Canadian woods are far inferior to British. Yet they could get the wood they desire by changing their mode of purchase. Let any competent man go out to Canada and have a lot of young oak, ash, elm, and bickory sawed up into plank of the size war' d, let it be partly seasoned, and then shipped direct to the manu acturer. Then they would get good cheap raw material, and with machinery and skilled workmen there was no reason why they could not build carriages of botter quality and more cheaply than they did at present. The Professor then went on to treat of the need of Canada for a Forest Department, and spoke of their hardness, resistance to wet the beauty of many Canadian woods for cabinet making and furniture, as well as their gaes for cooperage and the possibilities of the import of wood pu'p. The paper indeed dealt exhaustively with the whole subject and was well received throughout.

LUMBERING IN MANITOBA

This winter promises to be a brisk one in lumbering circles, the past season having been a very good one. "We could easily have handled 2,000,000 more feet than we did," said a member of a well known I imbar firm. "During the past summer the cut of last year has been all sawn and disposed of and the stocks of sawn lumber and love on hand have had large inroads made into them. If the demand next summer is to be met, there will have



EXTRA HEAVY PLANER AND MATCHER.

preventing any undue strain to gearing and giving equal pressure fact, there was no reason why Canada could not produce all the to each side of board.

The Patent Side Hands, with their spindles, are adjustable horiz ntally or vertically from the working side of machine. When side heads are set for a certain width, a hand nut locks it and no slipping can take place. The machine can be changed from a planer to a matcher and vice versa in one minute, and the mechanism for changing heads out of the way so as to surface full 24 in, wife is the most perfect and reliable yet put on any machine. The back feeding rolls are weighted and the front ones have springs and we think experts will appreciate the change.

This machine will stand up to any kind of heavy or light wirk ash, oak, yellow pine, white pine or hard wood, and is specially adapted to large mills requiring a variety of work in both planing 24 in. wide and 6 in thick, also for flooring, ceiling, patent siding, moulding, &c., &c., and we can recommend it in every way to be well built, and the material the best adapted for the purpose.

The L. and T. pulleys are 14x83 and should run 960 revolutions

Fir cute and prices of this or any other Improved Wood Working Machinery, ad iress the manufacturers, the Egan Company, 165 to 185 West Front St., Cincinnatti, Ohic, U.S.A.

CANADIAN TIMBER.

At a largely attended meeting of the members of the Institute of British Carriage Manufacturers, held in the Westminster Town

ash and hickory for every variety of agricultural implement and vehicle required in England. Canada had millions of acres of waste lands growing up with young wood, which to-day were of no va'ue, but which in twenty years, if merely let alone, would fully supply the English market as well as the Canadian. The Canadian woods noted for toughness were basswood, common or white e'm, rock elm, slippery elm, beech, hornbeam, ironwood, walnut, bitter nut, white oak, blue oak, pin oak, grey oak, scyamore, red maple, whitewood, cottonwood. Toughness, the proferer showed, was found at all ages of the wood. The three Canadian elms, common or swamp elm, rock elm, and slippery elm, are in their young state so tough that in many cases it was impossible to split them. He had seen thousands of young elms ranking from six inches to eighteen inches cut down close to Can adian railways and burnt upon the ground because they were so tough that they were almost useless for firewood, and not worth the labor of converting into firewood. Did English purchasers and Canadian producers understand their business better, these small trees would be cut up in Canada of the required size, or merely cut into plank and shipped to England when partly dried. Or, better still, English capital, managed by competent men in the interest of the manufacturer or dealers in England, could produce just what was wanted and forward duect, so that the heavy charges now paid to middlemen could be dispensed with. There was now in Canada, around the old settlements, in fence corners Hall, London, Eng., Professor John Macoun, F. L. S., Botanist and in the forest, cut many years ago, an enormous quantity of to the Canadian Government, read a paper on "Canadian Tim. young wood ranging from twenty to sixty years of age which is

to be a much larger cut than last season; we as only one of many firms, will increase our cut by three millions of feet.'

Other lumbermen spoken to corroborated this view of the case. During the past season there has been a heavy demand for good lumber for railway bridge purposes, and three times as great a quantity was used for this work as there was in 1885. From Winnipeg and all points of the Northwest there has been a de mand for lumber, which indicates that building operations have been heavily carried on during the past summer. All the mills have been rushed to their greatest capacity. Prices are stiffening and are now from \$14 to \$15 per thousand feet f. o. b. at Keewatin, and from \$17.50 to \$18.60 at Winnipeg. They are expected to range still higher next summer if the market is not gutted by too heavy an output. One dealer estimated that there was yet 30, 000 feet of sawn lumber remaining over from past years whon the output was far in advance of the demand; if this winters cut was not so large, next sesson would relieve the dealers of the stocks on their hands, and place the business on a firm foundation again.

A good many lumbermen did not get all their last winter's cut down to the mills last summer, the drives sticking owing to the lowness of the water. There are probably three or four million of feet at present on the rivers waiting for the spring freshets to bring them to mills.

The season now opening promises to be a most active one; and lumbermen are consequently in good spirits. Gange of men are already being sent to Lake Winnipeg and the Lake of the Woods districts, and a week or two will see operations in full swing .-Free Press.

COLONIAL TIMBER.

The last issue of the LUBERMAN contained a brief notice of a meeting held in London (Eug.,) for the purpose of testing the various kinds and qualities of colonial timber. We are indebted to London Timber for a full report of the proceedings, but as our space is limited we have summarized the report, and only report that portion of the speeches referring more particularly to Canadian woods. The meeting was made up of a large number of colonial visitors, together with some of the leading civil engineers, builders, timber merchante, and others interested in the employ ment of timber, and was held, by accial invitation at the Chelsea works of Mesars A. Ransome & Co., in order to witness a series of practical experiments with different kinds of colonial timbers at present commercially unknown in England, but to the peculiar qualities and advantages of which it was desired to draw

The experiments, which were conducted with more than 40 different varieties of timber from India and the colories, comprise tree felling, cross cutting, sawing, planing, moulding, m rusing, tenoning, and boring; while the manufacture of such things as caske, deors, pick handles, carriage spokes and railway sleepers was carried to its completion and the articles exhibited to the assombled quests.

Mr. Woode, the chairman, on neing, said that it was a great satisfiction to him to see so many distinguished representatives of the colonies present on this courtion. The object of this opportunity that Mr. Rando me line given us ie, as I understand, to bring the woods which are the growth of the colonies to the notice of civil cryineers, continutors, and others interested in the use of timber in the vatious branches of trade, at d to give the colonists thenselves an opportunity of showing what their respective countries will produce. We have had before us eplendid earny les of wood from various colonies, and we have seen he wreedily they can be operated upon, and brought into various forms by the machinery in those works. It would be interesting, I am sure, to the gentlemen present if we could have the views of our exrerienced colonial friends here with regard to the various qualities of the wood, and the uses to which they can be applied. It would also be interesting if we could hear from Mr. Rensome what is the result of lie of servetions and experiments upon these woods, and if he would state in what respect and to what extent be thinks they would be suited for practical use in England, or the clonies, as many of our pofession are ergased in the carrying out of important or gineoling works in the colorier, to whom many of there woude, if they were thoroughly known, would be of use would therefore a.k Mr. R insome, in the first place, to favour us with some observations on the results of his experiments with these woods.

Mr. Rausome said .- I am very sorry that I cannot give you much information as to the most amportant point of all with regard to the woods you have seen operated upon - viz., the price at which the various discriptions of timber can be delivered in London. There is no doubt that a great many of the woods which have been submitted are very fine indeed for a variety of purposes, and although our space was very cramped, you must all have seen enough to know that there are many woods of excellent quality, which would be of great use in this country. The question, however, is whether these woode can be imported it to this country cheap enough to take the place of other woods now suswering the purpose. As r gards this, however, I think we may have the advantage of some information on the subject from the representatives of the different colonies present here to-day. It appears, perhaps, invidious to select certain woo s, but at the same time we are here for practical purposes, and I think it only useful and right to mention that there are certain woods which we have tried (for we have been experimenting during the last fortuight upon them), which stand out as pre-emmently good woods. If you will allow me, I will just mention them, and then the represutatives of the different colonies who follow me will, perhaps, give you some information as to the coat at which they can be imported.

The speaker then referred in turn to the principal woods to be found in New South Wales, Victoria, Western Australia. New Zealand, Canada, the Cape, India, &c.

Referring to Canada the speaker said :- From the Canadian Commission we received some excellent samples of woods, the Doug las fir and black ash demanding special notice. It is only quite recently that the district in which the Douglas fir is found in the preatest abundance has been opened up by the Pacific Railway, and I cannot help thinking that ere long it will be imported in large quantities into this country. It is a specially fine wood for Joiners' work, runs to a very large eize, is mild to work, and is suitable for the same purposes as yellow pine. We also bind a matter which touches us nearly) that it is thoroughly well suited for engineers' patterns, and when coaked in water it swells conenderably less than any ether wood at present employed for that purpose. As regards blank ash it is difficult to understand why it has not more largely found its way into this country, as it is cheap, and in all its qualities resembles very much the best-r known and popular American white ash. You have seen to day this wood converted into casks, joiners' work, and spekes, for all of which purposes it is well adapted. The American hop-hornbeam is a very close grained wood which is largely used in Canada for making hummer handles and similar work, for which it appears to me to be well suited.

Professor Macoum (Canada) being called upon, said :- I will not detain the meeting very long, but after hearing the other gentlemen speak I feel there are one or two remarks that I should make in connection with Canadian woods. Befero I speak of those in mediate'y before us I would say that the reason you know so few of the Canadian woods is simply this, that we are English over there as much as you are here, and our prejudices are the same, and therefore it is hard for us to get out of the beaten track. We know that you will take certain woods, and we know how difficult it is to get you to take any others, and therefore we have not fried to introduce a great many of our woods, because it will be hard to bring them into the market. Many of our men say that the white time, known as the yellow pine here, is getting scarce, but we think the Douglas plue, which is not confined to British Columbia, will take its place. found all through the Recky and Seikitk mountains, right down to the Pacific Coast : and I know that it grows five degrees to the north, as I myself found it from latitude 49° to latitude 55°, so that you see the supply is not limited, and when our yellow pine gets so scarce that it becomes dear, you will have to take this in its place. The trees will produce a great quantity of timber, and one tree that was cut down was 90ft, long, the large end being just 13m across, and the small 7 m.; so that in 90it, the taker was precisely Gin. Some gentlemen may say I do not believe it ; but it can be proved, as I myeelf sawit in the Seikirks last year. When I tell you the tree tapers so little, you naturally ask, what sort of a forest is it? and I would say, it is a forest of mighty trus ke, as d these little trees have to sun away up to get a little of the fresh air of heaven. I mention this to show that what Mr. Runsi me said about this wood is correct, and I would idd that it is useful for all purposes. As regards our black ash, I am associated at its not being in use. But what is the good of sending it when Engli-1 men belleve the white ash better, although at the same time I have not the slightest bes tation in saying that son a of the white seh that is sold here (you see the prejudice of the Englisher), is nothing, more or less, than black ash. Mr. Ransome has shown you that black sah is useful for almost every purpose, and as to quantity, I have to say that all through Quebec and Northern Ontario our awamps are filled with this wood, where it is of no value but to make fireword or split into rails for our fences. And when I mention it is so cleatiful it is for you who know what you give for elm and white ash to say whether it would answer your purpose to take it. This and the Douglas fir we could deliver on the English market for about £5 per ton. The day is coming when this black ash will be used almost exclusively, slibough until the last two years it was scarcely known to exist at all. When we Canadians talk about supplying wood, we are prepared to supply any quantity, not for a few years only but for years and years. I meet gentlemen who tell me, "We do not want Canadian pine, we want Archangel pite; "and I say, "God help you, that is not pine at all, it is spruce." (Laughter). We have spruce very near y the same but better wood, that grows from the Atlantic to the Pacific. We have unmense rivers that will float it down, and if the Hudson's Bay routs is opened up, and some of the men who new carry grain were to carry northern pine, it would answer their purpose much botter. We have this in such quantities that I can look for huneds and thousands of miles and see nothing but vast trees : I can look from Halifax to Victoria and see nothing but great for ests of pine. You need not go to other colonies and hunt for There is the word, and you can stain it to anything. You vine. can make mahogany of it, if you like, or anything else nowadays. (Laughter). The hickory extends from Halifax to our Western ure of Victoria, and our people do not use its because it is so plentiful. Here you see an axe handle made of it. Before I sit down I have one more word. As representing Canada, I say that we feel extremely grateful to Messrs. Ransome and Co. for the privilege of having our woods brought before you here. We have tried to bring them before you in the exhibition, but we could not do it, and I thank them for the privilege of showing it he.a. I see the value of the machinery. It is suitable for cutting up all our woods, and by its adoption, instead of having the woods simply squared for export, with the sid of the machinery we could cut them up in any way, and send them over here in any useful sizes that may be wanted.

After speeches from several other Colonial visitors, representing the countries above referred to, and the customery votes of thanks bring tradered Sir Philip Cupliffe Owen said :- Before the mosting breake up I have a request to make on behalf of His Royal Highness the Prince of Wales, and that is, that Mr. Ransome will favour the Royal Commission with a report of the proceedings during this day in order that it may embodied in the official report on the exhibition. I think it is perfectly worthy of being recorded in the report of the Royal Commission. We have heard to many interesting speeches, and so many interesting experiments have taken place, that I think it only right and fair to all parties that they should be recorded for the benefit of everybody and the developement of the trade. I therefore propose that Mr. Ranome will favour us with a report at his convenience.

Mr. Ransoms was understood to acquiesce in this proposition.

The statement is made that all the varied machinery of Great Britain, now operated by steam power, is capable of performing ore work, and hence producing more products, than could be anmber than all the able-bodied men on earth.

ANARCHISM AND THE LABOR MOVEMENT.

Hitherto the Labor Movement has been merely industrial; it is now becoming political, and combining with theother evolution ary elements in what threatons to develop into a gen, ral attack upon existing civilization. The motives of the leaders we under stand; they may expect to gain by a reign of havec, and what they mean by anarchy is a destruction of all existing authority, and the erection of their own desin tiem in its place. Like the French Jacobius, their progursors and their models, they would exercise in the name of liberty a tyranny more sanguinary and more grinding than ever was the tyranny of kings. But a pres perous and respectable workingman ought surely to think twice before he lends himself to an attempt to convulse and wreck seciety. He is not without the teaching of experience to guide him as to the probable results. In the French R vo'u ion the Describes had it all their own way , they did without rostraint everything that the Anarchists and the fanatical enemies of Cap. ital in the present day burn to do, they pillaged and butchered the rich to their hearts content, and broke up the while framework of society. What followed? Universal misery and famine, after which natural laws provailed, and society fell back into its old Course, so that the Parisian workingman now, particularly if he drinks at sinthe, is as discentented and quorulous as ever. are all members of a complex and graded cratication which, what ever its faults cannot be torn to a reces without causing an inneh confusion and soff-ring that it may safely to said that there is no living man, the buckneers who or aniz-revolution alone except ed, who would not personally I so more than he would gain by the process. To take the calling most nearly connected with our own. what would a printer who is receiving good wigos kain by throw ing society into convulsions? Literature is one of the refinements rather than of the necessaries of life; it is taken mest largely by the wealthy and highly educated; it is not crously the first thing given up in times of distress it can hardly flourish except it quiet times. An anarchist or revolutionary printer may perhaps glory in the hope that printers a c-ntury hence will set their feet upon the necks of kings; but he will hunself run no small risk of being deprived of broad .- The Week, Toronto.

TIMBER IN BRITAIN.

In nine months ending with Saptember last, Great Britain received, through one hundred and twenty ports, no less than 2 638 -808 loads of sawn and 1,219,125 of hewn timber, in all 3,857,93. loads, which was less than the imports of the same time 1, 1885 by 785,480 made or eixteen per cent. The comparative quantities which entered he porte are ground an el-borate lat, a imposed by the Timber Trades Journal of October 23rd. From this we take the following figures of imports .

	Loads.	Loads.
PORT.	9 mos., 86.	9 m a , 85.
London	. 802,904	972 156
Liverpool	3.0, 22	433 856
Hull	302,619	331 456
Carcleff	260,183	233,134
Grimsby	48 183	275 465
Hartlepool W	177,714	226,598
Newport		184,975
Grangepore	82 224	145,950
Newcastle .	78,093	105,208
Bristol	69 589	100,578
Greenock	77,185	85,579
Leith	. 74 286	66,856
Dublin	54,530	65,793
Belfast	. 46,909	58,917
Glasgow.	44,556	45,890

It will be observed the Leith is the only one, of all the ports named above, which received a greater quantity this year than last. Ayr, Aberdeen and Boiness are other Scotch ports of which the same may he said, but they are exceptions to the rule, which is that wood imports are reduced.

A SHIP ON FIRE.

The burning bark noticed off St. Pierre has been towed into that port and the crew eafely landed on Langley's I-land. The bark was found to be the Caspar, 806 tons, of Swarses, from Miramichi, October 29, for Liverpeal, with a cargo of timber. Captain Roberts reports that everything went well out i Sunday morning when fire was discovered under the forward house. There was a stiff breeze blowing at the time. The crew made strenuous but unavailing efforts to get the fire under control, but famed by the increasing gale, the flames spread rapidly, whose the heat and smoke were something terrible. At half past ten o'clock on Sunday night the crew, unable to stand it may linker, abandoned the id-fated ship. At that hour the flames had burst through the forward house and blown up the forehatch. The crew of twelve mon left her in the long boat and headed for Langley's Island, twentyfive miles distant, which they reached at eleven o'clock on Monday all well. Captain Riberts says it was a grand eight to see the ship all abiase on the ocean at night, with the flames fanned by the gale of wind. The sky and sea were illuminated for miles around. The tuz Progress managed to get the burning hull in tow, and got into St. Pierre on November 9th. It had been burned to the water's edge, and was still burning inside below produced by the labor of 400,000,000 able-bodied men, a greater the water line. The crew give no explanation of the origin of the fire.

T's publisher of the CANADA LUMBERNAN desires tably reliable and competent coarespondents at a owing named places :

Magston, Ontario. Quebec City, Quebec. St. John, New Brunswick Halifax, Nova Bcotla. Winnipeg, Manitoba. Victoria, British Columbia.

The duty of ea h correspondent will be to give a review of bla local market for the month preceding the date of issue, and the ruling quotations for diffe ent kinds of lumber, &c. For terms and any other information, address

A. G. MORTINER, Peterborough, Ont.

Market Reports.

TORONTO.

From Our Own Correspondent.

Oprlocal market continue . brisk, and although all kinds of bill lumber in pine is decidedly scarce; strange to say, prices do not advance. Hullers, however, are firm on present fixures, and before spring arrives prices must advance. One reason for pine bills not advancing may be found in the fact that hemlock is now being largely used for framing timber. There is fully troble the quantity of bemlock being used here as compared with even last season, and the total amount of all kinds consumed in this city this meason will nearly double that of former years.

Shipments from our docks may now be said to be fairly closed. Two or three more cargots may get off, that will be the outside quantity, and the bulk of the last month's shipments have been nearly green from the saw, in fact there is not any very large amount of dry lumber to come forward, although with the opening of navigation next spring, a considerable quantity will be available from the other side of the Georgian Bay. Figures for all grades of lumber remain about the same as during the earlier part of the season, No poriceable advance has taken place on any lines since the opening of

The following are the ruling quotations in this

ci	ty at p	refer	t:			
				ntling .		\$10.00
Si	limine	cull b	oards, pr	omiscuous	widths	12 00
•		at	ocks	• • • • • • • • •		13 60
R.	antling	and I	olst, up f	o 16ft		. 13 00
-	***			18 ft		. 14 00
	44	••	••	2 . 11		15 00
	4.	44	41	22 ft		16 60
		•••		24/1		. 17 00
	46	••		26 11	* ***	18 (0
	••	**	44	28 ft		19 03
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	**	**	**	3211		. 21 00
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	,••	••	••	35 ft		. 24 00
	44	••	**	SS 11		27 00
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BL	ick ash	1 & 2			20 004	ತ∷ತ ಉ

MONTREAL LUMBER MARKET.

From Our Own Correspondent.

MONTREAL, Nov. 25-During the month of November, the lunber trade in Mentreal has been of a very satisfactory nature, in fact there has been a continuence of the activity which, generally speaking, has characterized this line of basices the ughout she greater part of the year. Dealers here in locking over the transactions for this year to date, repart an increase of nearly 50 per cont, over the corresponding portion of 1885, and there is an or couraging outlook for the bere say that building operations have not term

being a good local demand, but the bad reads usual at this time of the year, have militated the yards here:somewhat agains country business, as farmers and others, have not been able to draw their supplies. The stocks in dea'ers' hands are fairly large for the season of the year; prices continue firm and unchanged, although there is nothing of a very special nature to excite the market.

Navikation being now closed, some idea of the export business from Montreal may be gleaned from the shipments by the Montreal Export Company to the River Plate during the season of 1886. Of the 29,088 204 feet of pine and spruce so shipped, 21 384 160 f-et, all pine, was despatched from Montreal. The total pine so shipped was 21 782 604 feet, and spruce 7,305,060 feet. The detailed shipmost is as follows:

Shirments of lumber from the River S. Law. rence to the River Plate, during the season of of late, and several rafts of square and wanty

Pine, 1st quality, V M	800	000310 00)
Pine, 1st quality, W. M	00	00@30 00)
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Pine 4th quality deals # M	10	Odec12 10	•
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Fine, mill cults, ¥ M	ากั	00413 00	,
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Ash, run of log culls out, 2 M	. 20	00625 00	
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Oak, 39 M		00 100 00	
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QUEBEC.

The timber market here has been quite lively pine have changed hands. A slight advance in

FROM MONTREAL.

DATE.		VESSELS.	PINE,	SYALL STOWAGE.	LOADED BY.	
June	11 25	Cambridge	910 566 445 030			
July	6	Aladdin	783 654	1 1		
July	10	Carl Haasted	667,906	1		
	20	D.Janua		1		
	25	Palermo	GH 419	1 10000		
	28	William	579 080	50,000	•	
A		Veritas	853.445	1		
August	4 S	Arklow	613 817			
		Amicus	431.083	50,000	g	
	13	Venezuala	617,235	1 1	Ϋ́	
		Asia	1.186 390	i I	2	
	21	Arlington	651,604	1 1	<u> </u>	
	21	Alico Roy	535,020	1 1	È	
	23	Our Apnie	338 431	<u> </u>	₽.	
	23 25	Alabama	800 925	! !	Export Lumber Company, Limited	
	20	Journal	294 368	1	7	
	27	Lillie Saullard	817,176	i 1	8,	
3eptember	13	Hectancoga	850 521	l :	В	
	15	Lima	741 901	l i	2	
	28	Lizzie C. Troop	1,180 740	1	Ş	
October	4	Cathel'a	312 577	1 1		
	9	Daria	314 482	ľ	<u> </u>	
	11	Romanoff	854,510	ļ .	8	
	12	Algeria	496,094		S.	
	10	Geo. B. Dean-	7:8 513	54 144	عَ	
	20	C-rmel	648 947	29,312		
	15 20 22 23	Wylo	670 432			
'		Sigrid	924,319	12,480		
Vovember	1	Reguard	793,137			
	4	Ga-peo	799 864	! }		
	10	Yuba	736 904			
i i		•	21.384 160	195,936		

FROM OTHER PORTS IN THE ST. LAWRENCE.

DATE.		VESSELS.	PINE.	SPRUCE.	TOTAL	PAILINGS.
June	19 22	Mary K. Campbell. Kemechatka	9,444	350 000 380 000	389 444 380 000	10,720 43,573
July	31	C y to	į	780,000 330,000	780 000 330,000	40,010
August	31	Hector Kate C. Maruire		465,000 953,000	465,000 93,000	55 128
	17	Kate Harding O. oata	ĺ	450 000 442,000	450 000 442.000	24.355 5,628
September	17 4 4	Goldon Rule	140,000	\$00 000 700 000 445,000	800 000 840 000 445 000	41 320 51,120 34 360
October	19 26	Pescemaker	131 000 118,000	520 000 595 000	651.000 713.000	28,000 57,340
November	14	*Joannette	398 444	65,600 7 305,600	7 701 011	352,944

*Also has 150 spars.

TOTAL SHIPMENTS FROM THE ST. LAWRENCE IN 1886.

20,088 204 feet. Small Stowage.....

PREVIOUS SHIPMENTS.

1885 .		43 feet.	1 1877	8 787,928 feet
1884	36,938 5	48 "	1876	
1883	18,768 6	12 "	1875	. 10 123,000 **
1882.	24,419.8	27 ''		16 262 293 **
1881		41 "		
			1872	28.231.958 4
1879.	12,476,1	:0 ''	1871	16,005,935 **
1878.	10,855,2	16 "	1870	28,231,958 ** 16,005,935 ** 25,145,183 **

enced in securing the right kind of mon. Many winter trade, as there is yet quite a large amount found "; and soveral who have aigned the conof building under way. S me of our merc'ante tract, and left their values and watches with the to equare and wancy pine. employing agent, felled to put in an appearance. conducted on such an extensive scale for twelve. Good men were guaranteed from twenty four years. Xard builness continues brisk, there to twenty-sight dollars per month, all found.

The Montreal Witness says:-About 100 prices is also noted. It is understood that the lumbermen engaged here a fortnight aco have manufacture of timber at Ottawa and claewhere left to work for the winter in the lumber business for this market next winter will be extremely at Port Arthur. No little difficulty was experie small, on account of the demand for saw logs, which is very good, and prices are advancing. refused twenty-four dollars per month and "all No important sales of hardwoods have been reported, the principal sales made being confined

> Owing to the extrandinary fine weather we Chaudiere saw mills are enabled to go on sawing man."

The following are the lumber quotations at at the rate of about 4,000 logs during the 24 hors, the result of which will be but comparatively few logs will remain over the winter

It is reported a sale of pine deals has taken place in Ottawa, being produce of legs to be cut this winter. Prices not transpired, but underatond to te about same as last years.

It is reported two iumber companies have been incorporated lately, namely :- The Ottawa Lumber Company with a capital stock o' \$150,. 000 in shares of \$100 each, the incommutate beine Messre. Al xander Bastut, J. Down, L. A. Dasn, R. C. Blair and Alex. Houliston, of There Rivers. They intend cutting lumber for United States market, and possibly a small quantity of deals for the English market.

Messre R. Reford, J. Dillon, of Montreal, D. W. Ross, of Cate St. Antoine, A. McLausin, of East Templeton and W. Riss, of London, England; have been incorporated to carry on the lumber and manufacturing business under the name of The Caarlemigne and Lake Ouarean Lumber C mpany, with a capital stock of \$200,000 of \$100 shares.

PHILADELPHIA.

There has been no perceptible falling off in this market since last report. Prices are still firm and a satisfactory condition of affairs exis a all around. Yellow pine selle rapidly at good round figures, and the demand is greater than the imports Sap pine is also in good demand, and a scarcity of this class of wood exists, which has tended to raise the price c neiderably. White pine is rather inactive, while a large trade is being done in yellow pine. Hemlock is in good demand, and is selling at about the usual figure. Spruce is in moderate supply, but prices are somewhat irregular, some dealers asking a slight advance. Interior finishers are running more into hardwoode; and the piorer grades of walnut are wanted, and the whole hardwood market shows atro: gth and life.

SAGINAW VALLEY.

The Lumberman's Gazette of Bay City, in its issue of the 25.h November, says:- The lumber business, so far as manufacturing and water shipments may be appounded as practically closed and the few mids still running will cease operations in a few days at the farthest.

The mill owners who have timber of their own are busily engaged in the preparatory work of securing their supply of logs for next season's operations—some of them indeed being already at work in the pineries, and having a considerable quantity of logs on the skids. It may be stated in this connection also, that it is a fair presumption that the stock of legs for the Seginaw river mills will show a slight diminution at least, as compared with former years; but probably not so great as the prediction of some of the more skeptical would seem to indicate. It is a fact, however, which cannot be ignored that the lumbering business in the greatest manufacturing centre in the world in the past, is gradually but certainly concentrating into fewer hands, and that those mon who have shrowdly made az extrusive provision as possible in the past, for the demands of the future, by investing heavily in pine a umpage, arode tined to resp rich rewards and abundant returns for their foresight and sagacity; and that mills with no pine timber presessions back of them, must gradually but surely succumb to the inevitable, and sub nit to removal; or suffer loss in their continued attempted operation with nothing but a precarious sawbill for maintenance, while their I cations must be occupied by other and permener t industries, or suffer depreciation in value. In seed the past season has been one of financial misfertune to several mil's for the reasons stated, hereabouts as well as elsewhere, and failures and assignments have resulted.

The past season however, may be set down as financially successful for manufacturers in fact, who have been mark-ting their own timber. Prices have rule I satisfactorily high, and profits have been exc edingly gratifying, as they must inevitably be in the future in the absence of any unforseen financial crisie, business depression or extensive labor troubles.

When obening a cor espondence with advertisers always mention that you saw are now experiencing, the Montmoreney and their advertisement in the "Canada Lumber-

ADVERTISEMENTS

Those wishing to BUY or SELL TIM-BER LANDS, LUMBER or SECOND HAND MACHINERY will find THE CANADIAN LUMBERMAN an excellent medium in which to make known their wants. Advertisements of this character will be inserted at the low rate of 1 CENT A WORD, cash to accompany the order in every case. Address.

> A. G. MORTIMER, Publisher, Peterborough, Ont.

CHICAGO.

The Northwestern Lumberman says:-The prospect is that shipment from the mills will crase this year earlier than usual. On the great lakes freicht rates are so high that it is preferable to let lumber remain on deck until next spring. On Saginaw siver heavy purchases are being made of lumber that will not be shipped until next season. In the Chicago district the Bo la'e drop in the price of short dimension, com- Ph bined with high freight rates, has tended to discourage the mill men about shipping much more lumber this (all. From east shore points comes reports of a general determination to forward but little product to market this season but to pile the cut of the mills till they are shut The opinion appears to 1 revail among the manufactures that lumber is a good enough property to held until conditions of sale are more favorable than now.

On the other hand, the merchants have reached the conclusion that they will offer no inducements to prolong the stocking up se-son. The trade does not regard the situation so good, or the prospect so bright, that it can afford to offer bigher prices as an inducement for bringing forward the green lumber that the saws are turning out,

Thus is will be egen that the business of the country is in a rather peculiar posi ion. far from the boom that characterized it in the fall of 1881, for then it seemed as if the jobbers could not buy enough to satisfy them. Now there is a degree of indifference about making purchases, unless the terms are satisfactory. The rosson for this is not become the distributive demand has not been fairly satisfactory this sessor, but because prices stul hang at a level not much above those that prevailed a year ago. In this market if it were not for the fact that lorg dimension is worth this year relatively more than it was last at a corresponding date, there would have been no gain in the value of Lake Michigan product. Short dimension is worth in this market no more to-day than it was last year at a like time, while the supply at the mills seems to be accumulating. Stocks in the yards are probably less than they were at this date last year and in the matter of dimension, they are more broken and equally sorted.

There is no buidensome surplus of lumber in the yarde, but there bas been no such cleaning off of mill stocks as has been predicted. But the supply of logs has been closer sawed up this season than last. The lumber business in the lake region, and in fact in all the white pine districts, is simply in a state of good health, but it is noither fl shy nor robust. All have been counting on a boom during the year that has not come, and all are looking up expectantly, like young rotins, with their mouth once, for the cherries of profit to drop into them. Tto fruit would fall in the right place if a little increased stimulus could be given to the demand. at mu us would be given by a rise in the prices of farm products. Until there be such a rise, it is idle to expect a marked increase in the demand for lun ber, or a material advance in its selling value.

At the yards business was not quite so active La has attained during the past month but there was a steady movement all the time. The out-of-town demand is quite beavy. Collections of-town demand is quite bravy. continue rather poor and some difficulty is experienced in th t way. The S u hwestern railroad freight cut has not come in to sesist this market by opening Kansas City as better depot Tamarack

for sales. The demand	b-tween yards is good as
sorting continues with	unabated fury : U
Piece Stuff, short green	3 9 25@ 9 60
Piece stuff, short dry	10 50 11 00 g
Piece stuff, ong	
Boards and strips, No. 2	
Boards and st ips, medium	
Boards and strips, No. 1	
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Shingles, extra	
Fhingles, cedar, standard.	
Shingles, cedar, extra	
Lath, white pinc	
Lath, Norway	
RECKIITH FOR WE	KK KVDIVA VAL. 10.
	Lumber. Shingles.
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Cedar posts	202,150	637,435	400,565
EAS	TERN FRE	ight rates	•
PROV. CITICAGO A	SD COMMON	POINTS ON CAL	R LOAD LGTS

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Baltimore	.220
Washington	220
Albany	
Troy	240
Buffalo and Pittsburgh	
Shenectady	
Wheeling	
Suspension Bridge	160
Salamanca	
Black Rock,	150
Dunkirk	
Eric	
Torota o	15
LAKE PREIGHTS.	
From Muskegon, green	1

LAKE PREIGHTS.	
From Muskegon, green	1 623
From Whitehall	1 62}
From Ludington	1 75
From Manistee	1 373@1 873
From Menominee, dry	2 00
From Menominee, green	2 00
From Cheboyan	2 00
Fr 2 Eay City,	3 00
From Oscoda, dry	2 75
From Alpena, dry	2 50

NEW YORK CITY.

Reports from this city show that as a rule the himbor trade has been incderately brick during the past month. The demand for all descripto enuloy and the active active the volume of business has been fully up to that of the past few months. The mand from the yards is unusually brisk, owi , principally, to the large amount of building at present going on. This state of affairs in the yards is likely to exist for a few months at least. The export movement, while in some respects showing a slight decrease keeps up very well, and the business completed, ir, on a whole, encouraging. The market for yellow pine at depruce bas ruled very firm. In white pine very lit-le change has occurred. Trade all around has been quite active, and a cheerful feeling characterizes the market gener-

OSWEGO, N.Y.

	riom Gur Gun Corresponaem				
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ALBANY.

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:	Pine, 12-in. boards, 13ft 23 00@30 00	٠
	Pine, 11 in. siding, select 40 00@43 00	-
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	Sprice, plank, 2-in., each	
	Sprice, wall stripe, each	
	Hemlock, boards, each	
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LONDON, ENG.

LONDON, Nov. 20 -There is not much of interest to note since our last, and it appears now to be generally felt that as regards the position here there is not likely to be any chance trem the present quietude before the advent of the new year. By that time we shall be able to judge more correctly as to the stocks here and the prospects of consumption in the future.

The chief point of interest is now shifting from this country to the other side, and is being centred on the probable free-on-board quotations for next season, and the extent of business that is likely to be transacted. The question is rather a complex one, the chief factor in arriving at a conclusion necessarily depending mairly on the views taken as to the future prospects of general trade both in this country and abroad. Of one thing we may be telerably certain, and that is that the consumption of wood goods here and in the Coloniesis, to say the lesst, not likely to be less than for the present year. Prices are now at a low level, and stocks generally throughout the country are in moderate compass, so that, should the present improving tendency in general trade continuound develop further, we may in the pring have larger domand for first open water shipments then has been experienced for several years. Should this be the case, we think producers would act wisely in not making quo'ations too bi.b. but rather study to keep prices at a 5 0000 00 moderate level, and thus ensure a steady and

continuous volume of business throughout the season to the mutual advantage of both seller and buyer. A constantly fluctuating market renders buyers timidand cautious while an even and regular range of prices embel iens them to purchase freely for their prol able requirements.

E ch week that passes continues to confirm the views we expressed some time ago as to the unsoundness of trade in several quarters, and we are afraid we have not yet seen the end of it. It is, however, reasonable to hope that in the long run the trade must be improved and strengthened by the eliminition of what weskness and unsoundness exists.-London Timber.

LIVETPOOL

LIVERPOOL. Nov. 20 -The timber trade of Livery of has been more or less excited by the announcement that one or two more falures are to follow those already published; however, as the result of this has to a great extent been an. ticipated, and comparatively few houses are involved to a large amount, the trade is really not much aff-cted except in a certain circle. In spite of these adverse circumstances, it is thought that although there is not a great volume of business doing, there is a better tone prevailing and orders recently taken have been at more remunerative prices. The arrivals are only light.

BOARD OF TRADE RETURNS LONDON, ENGLAND.

The following are the officials returns of the mports of wood goods during October, 1886, and also for the ten months ending 30th ult., as compared with the same periods of 1884-5:

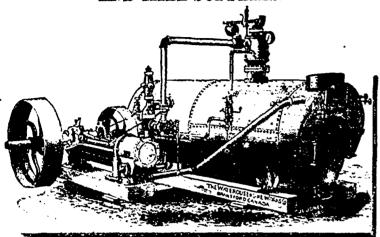
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ENGINES, SAW MILLS, SHINGLE and LATH MILLS

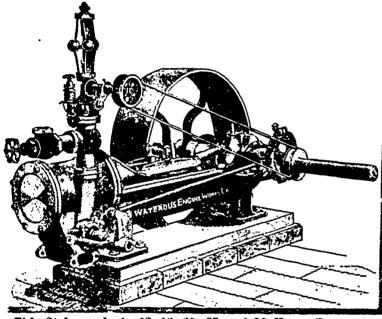
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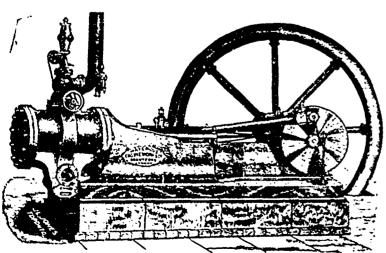
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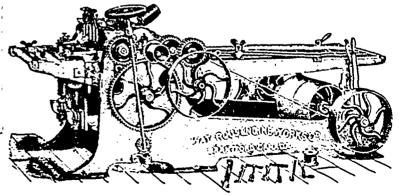
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The Sawyer's Favorite

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

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



Manufactured by HUGH GIBSON, CHATHAM. EXCELSIOR DOG.



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Patent Lap-Joint Star Rivet

LEATHER BELTING

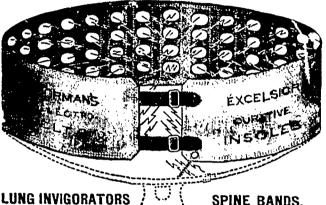
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WHAT THEY SAY OF US.

The Canada Lumberman, published every month by Mr. A. G. Martimer. Peterlomagh. is one of those practical periodicals, which are invaluable to the members of the constituency to which they cater .- Orillia Packet.

THE CANADA LUMBERMAN is still published monthly by Mr. A.G. Mortimer, of Peterborough, and is devoted to the lumber and wood-working industries of the D minion. It is a valuable technical journal.—London Free Press.

THE first issue of the CANADA LUMBERMAN under its now management clearly indicates that Mr. Mortimer has not missed his calling, and that the D minion is going to have a newsy exponent of the lumber trade. Success to it.— Chicago Lumber Trades Journal.

MB. A. G. MORTIMER, who has for many years been connected with the Mechanical and Milling News, has assumed the proprietorship of the CANADA LUMBERNAN, which will hereafter be i-sued on the heat day of every month .-Descronto Tribune.

THE CANADA LUMBERMAN published at Poterborough is now under the editorial and business mana, ement of Mr. A. G. Mortimer. The LUMBERMAN is a good trade journal, and should mest with success.—Bobcaygeon Independent.

THE CANADA LUMBERNAN published at Peterborough, Ont., has been sold by the Peterborough Raview Printing and Publishing Company, Limited, to A. G. Mortimer. The paper has been published semi-monobly, at \$2 a year, but now it will be made into a monthly, the subscription price being placed at \$1.-N W. Lumberman.

THE CANADA LUMBERMAN has been purchased by Mr. A. G. Mortimer, an old office mate of the editor of the Star, who has changed the paper to a monthly, and has reduced the subscription price to \$1 per year. We wish h m every success in his new undertaking .- Parry Sound Star.

THE October number of the CANADA LUMBER-MAN is undoubtedly the best copy of that Journal which we have yot received. Every person interested in the lumber industry of Canada or the preservation of our forests should unbecribe for the LUMBERMAN.—Deseronto Tri-

THE CANADA LUMBERMAN, hitherto published by the Peterbarough Review Printing Co., will bereafter be published by Mr. A. G. Mortimer, of the Mechanical and Milling News, on the let of every month, at \$1 a year. Too LUMBER-MAN will now be in good hands.-Uxbridge Guardian.

Mr. A. G. Mortimer has assumed editorial and business management of the CANADA LUMBERMAN, which is published monthly at Paterborough. The October number we found to be full of matter interesting to the trade, well New Eugland roads. and clearly arranged .- Canadian Manufacturer.

THE CANADA LUMBERNAN, published in Poterborough, we are pleased to notice, continues to flurish. Is the only journal in the Dominion devoted to the lumber and woud-working industries, and should find a ready patronage from wo d-workers and those connected with the lumber interest .- Port Hope Times.

A. G. MORTIMER, brother of the publisher of the Dominion Mechanical and Milling News, has purchased the CANADA LUMBERMAN from the Review Printing and Publishing Co., of Peterborough, Ont., and will heresfter conduct it as a monthly journal. Thesubscription price, which, as a remi-monthly, was \$2 per annum, has been reduced to \$1. Under its new management we hope to see the LUMBERMAN live and prosper .- Dominion M. and M. News.

OUR Canadian cotemporary, the CANADA LUMBARMAN, published at Peterborough, Out., has been purchased by Mr. A. G. Mortimer, Under the new management the LUMBERMAN will be i-sued on the first of each month, and the subscription price will be SI a year. Mr. Mortimer has made himself known in Carada by his connection with the Terento Mechanical and Milling News, and his experience in trade journal and an atvortising medium.-Lumber World, Buffalo, N.Y.

THE CANADA LUMBERMAN now in its seventh year, has passed under the editorial control and business mana, ement of Mr. A. O. Mortimer, who has had considerable experience in the management of trade j urnals. The LUMBER MAN contains several special features of much value to those engaged in the lumbering business and promises, by its trade reports and attention to the interests which it represents, to be an indi-pensable periodical .-- Ottawa Journal.

We are pleased to notice that under its now management the Canada Lumbernan is being enlarged and improved in many Mr. Mortimer seems to have the correct idea of how to conduct a trade pubheat, in, and one of his first improvements has been the addition of an attractive cover to be followed by the adoption of a fine toned paper throughout. We wish our successor every success that his enterprise morits .- Peterborough Review.

CANADA LUMBERMAN.—This excellent journal has been purchased by Mr. A. G. Mortimer, and will hereafter be published monthly at the low price of \$1 per annum. The CANADA LUMBERMAN is the only newspaper devoted to the lumber and woodworking industries of the Domition, and should be taken by every person interested in the manuficture and sale of lumber .- Midland Free Press,

Under the editorial management of Mr. A.G. Mortimer, by whom it was recently purchased, THE CANADA LUMBERMAN has greatly improved. Its handsome typographical appearance, and its varied and interesting list of cont-nts, are eminently in keeping with the evidently progressive idean of its present owner. It is deserving of a wide circulation among the lumbermen of the Dominion. Published monthly at Peterborough, Ont.; sub crip ion, \$1. - The Timberman,

THE CANADA LUMBERMAN, published monthly by Mr. A. G M rumer, at Petertor ugh, Out., is one of the best trade | urnuls in the Dominion. As its name denotes, it is devoted chiefly to the discussion of matters affecting the lumber trade of Cauada, in all its branches, from get ing the logs out of the forest till they are ready to be put on the market in various manufactured states. It is a large 16 pege journal, now in its exth volume, and has so far deserved success that its publishers have decided on introducing several improvements in its make-up, commencing with the next number .- Montreal Gazette.

RAILWAY NOTES.

The C. P. R. company will have an entrance into Buston before May 1st, 1887.

Toe Saskatchewan and Western Railway has been completed to Rapid City.

It is summed that the Canadian Pacific has secured an outlet to New York by securing some

It is expected the C.P R. will enter the city of Hamiltons by short span from the Toronto and N sgara fal.s tine.

Pass. B.C., on Saturday Light. Two passongers are known to fatally have been is jured.

Workman are busily engaged in completing the new (or lower) line of railway to the Vanconver Coal Company's South Field Mine. The mine will be reopened as soon as the railway is tinished.

The C. P. R. Co. having completed the railway bridge over False Creek without a draw, ateps are being taken to appeal to the federal authorities against closing this waterway against navigation.

W. A. Peterson, Canadian Pacific railway engineer, has gone to Sault Ste. Marie to make preliminary surveys for the proposed bridge at that place to connect the Alcoma branch of the C.P.R. with the Chicago Minneapolis and Manituba railway.

The jubilee of railways will be celebrated in Paris next year. On this occasion there will be held-first, an international exhibibition of railways and of industries c prected with them, which will be open from May to October, 1887 : journ-lism will quable him to keep the LUMBER- secondly, an international congress composed MAN at a bigh standard of excollence as a news of delegates of railway companies, Coambers of a regarders always mo. ilon that you saw Commerce, Syndical Chambers of Trades, scientific societies and others.

graph sy tem from Medicine Hat to Fort Benton in Montaua.

the present esting houses at Calgary and Broadview, and will run a duning cormetead over this section of the road. The dining car will be taken off the eastern end of the road through the Rocky Mountains and the new hotel at Field made a dining station.

The engineers who have been locating the Saskatchewan and Western Rollway westward to the Assinibolne river, about fifty miles from the present terminus at Rapid City, are linished. They will go on locating the extention of the M. & N. W. Railway another a ty miles toward logs, and gives it thus Prince Albert.

Application has been made to Parliament for to an Ast incorporate the Teeswa'er and Inverhuron Railway Company to build a line of rail. the Nashville inspection rules. way from Teeswater via Tiverton to Inverburon, and to take over and in scage the harbor with the corsent of the Governmet and the municipalities interested.

The abort line of railroad from Smith's Falls tion. Trains are running from Smith's Falls to Merrickville, and from B Il's Corners to K-mptvil e. The St. Anne's, Oxford Mills and K-mptville bridges are nearing completion, by which at aight connections with Muntreal will be made.

The Canada Atlantic Railway company have made air engements for the bire of 500 American cars to be used in the transport of foreign grain from Chicago to Owen Sound, and then to Boston via Ottawa and the Canada Atlantic railway. This is eighty miles shorter than any. The first shipment passed through O.tawa a couple of

THE Canadian Pacific representatives have submitted the details of their new route into Toronto. The rails will be laid on the west bink of the river, which position will be reached by a branch from the Ontario & Quebec main line, some distance east of the ravine bridge. The Don will be crossed at that point by an iron bridge. The right of way will be purchased from this point to a point half way between King street and Eastern avenue. Here theline will defiect by a curve westward until B rkeloy street is reached. From this point the company propose to reach their projected staton at the foot of Bay stroat by means of a road to be filled in south of the present breastworks. These plans will be worked cut concurrently with the improvement of the Don.

THE time made on the Canadian Pacific railway from Montreal to Vancouver, a distance of 2000 mil-s is 136 hours. This will soon be reduced to 120 hours, while specials may make the distance in 90 hours. When the short line is completed next autumn, through trains will make the trip from Halifax to Vancouver, a distance of 3500 miles, in 116 hours. Passengers PETERBOROCOH DEPART. -11.31 a.m., 7 53 p.m. will then be able to make the trip from Loudon to Vancouver in 240 hours or ten days. The A cellision occurred on the C. P. R. at Roger's time form Vancauver to Yokohama by the proposed Pacific line of a camera wil be 12 days, from Vancouver, to Hong Kong 17 days. To time from Halifax to Hong Kong will be 214 days; and the trip from Halifax around the world to Halifax may be made in 61 days, thus breaking Jules Verne's record by 19 days.

THE Thunder Bay railway, now in course of construction will develop the mineral district tributary to the head of Lake Superior, and feeding the Canadian Pacific Railway. To any one familiar with the great richness of the silver deposits alone, it is a wonder that the road was not built before. Dr. Lehman of St. Paul, the well known mining expert, says this is superior to the great Montana silver district, and in affew years must have a va-t out put. In fact he considers it the greatest si ver bearing region in the world. The line will also tap the fine agr cultural lands and valley bottome, and will afford a means of marketing the millions of pine and other timber along its proposol and surveyed course. The engineers report a good route, with construction casy, and cut reasonable

When opening a correspondence with their advertisement in the "Canada Lumberman."

The C P. R. company is extending its tele. A SHORT, SIMPLE RULE FOR MEAS. TRING STRAIGHT LOGS.

An experienced log and lumber inspector THE Canadian Pacific Railway are abolishing gives the following short and easily remembered rule f rascertaining the contents of a log by Doyle's rule when a copy of Scribner's book is not available:

RULE -Square the diameter of the log after subtrac ing 4inches from it, and the result will be the exact contents in inch boards of a log 16 feet long. A log 8 feet long will be half this amount; 12 feet long three-quarters, 14 feet long seven-eights, and so on.

He also states that there is but one accurate rule for measuring crooked, hollow and knotty

RULE -- Have the log cut into the kind of lumber wanted on agood mill, by a competent eawyer, and have it inspected and measured by

When opening correspondence with advertisers always men ion that you saw their advertisement in the "Canada Lumberman."

Perhans the most extraordinary that aneto Montreal is well advanced towards comple- cess has been achieved in modern science has been attained by the Dixon treatment for Catorch. Out of 2,000 patients treated during the past s'x months, fully ninety per cent, have the past s'x months, fully ninety per cent, have be n cured of this stubborn malarly. This is none the less startling when it is remembered that not hive per cent, of the patients pio enting themselves to the regular practitioner are benefited, while the potent medicines and other advertised cures never record a cure at all. Starting with the claim now generally believed by the most scientific men that the disease is due to the presence of living parasites in the tissues, Mr. Dixon at once adapted his cure to their extermination; this accomplished the Catarth is pratically cured, and the 10 mane of is unquestioned, as cures effected by him for years ago cures still. No one class has ever attempted to cure Cotarth in this manner, and no other treatment has over cured Catarth. attempted to cure Cetarth in this manner, and no other treatment has ever cured Catarth. The application of the remedy is simple and can be done at home, and the present a second of the year is the most favorable for a speedy and permanent cure, the mojerity of cases being cured at one treatment. Sufferers should correspond with Messre. A. H. DIXON & SON, 305 King street west. Toronto, Guada, and exclude a stamp for their treatise on Catarth.—Montreal Star.

Canadian Pacific R. R.

The only Through Route for the Great North West.

Going East.

10.56 p. m.

ARRIVE -5 31 a. m., 8 39 a. m., 6.42 p. m.

Going West.

PETERBOROUGH DEPART.-8 39 a. m., 6.42 p. m., 5.31 a. m.

> ABBIVE.-11.31 p.m., 7.53 p.m., 10.56 a. m.

C. W. SPENCER.

Ase't General Sop't.

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Publisher, Peterborough, Ont.

REGULAR SALES will be held during the year 1896, as follows:

Tuesday, April 6th, Tuesday, August 10th, do May 11th, do September 7th, do June 8th, ao October 5th. do July 13th, do November 2nd, and Tuesday, December 7th.

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W. SMITH, Manager. Dep. of Railways and Canals, Ottawa, 26th Nov., 1886.

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TENDERS will be invited for the construction of the Section of the Cape Breton Railway extending from the Gand Narrows to Nidney, a distance of ab sit 45 miles. This preliminary notice is given in order that contractors disting to tender for the work may have an opportunity to examine the ocation before the winter sets in.

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Yours truly, Thos, Gio. HAZLITT.

The Stove for Lumbermen.

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Yours truly, J. M. IRWIN. Gives the Greatest Satisfaction.

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A. Hall, Peterhorough. Dear Sir.—I have had the Frought from Cooking Slove, purchased from you, in constant use ever since last fall, and it gives the greatest salist. From in every resport of can recommend them highly to any one who is in the lumber business.

Very truly yours, GEO. HILLIARD, M. P.

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