orgian Bay and o. water at Quebec. The d is of much important of the pulp industry, mills are located. Many points through which masses, including masses, i

THE suggestion recently made in these columns trailroads might be employed to a much later extent in the near future for the transfeation of logs from the woods to the mills is ectically illustrated in some parts of the United lets. It is learned that in Michigan and some her states where i few years ago logs ere lated to the point of manufacture, railroads are wised for this purpose. It is also significant a strong syndicate is planning to ship by 1,000,000,000,000 feet of logs from the Rainy ver country to Stillwater, Minnesota.

We are again reminded of the one great want the lumber trade in Canada by the receipt of fulle booklet giving the rules for the grading pine and hemlock lumber as adopted by the mbermen's Associations of the Mississippi d Wisconsin valleys. A glance at the rules ows that they have been prepared with more an ordinary care. The general instructions intended to cover points upon which opinions elikely to differ, while to make the rules more plicit several examples of each grade are given. pese rules apply to 95 per cent. of all the white ne and Norway lumber manufactured in the ississippi and Wisconsin valleys. It is to be gretted that in the matter of uniform grading lumber, Canadian manufacturers have not own as much progress as their confreres in Un ed States. One has but co examine the fere, stock sheets as sent out by manufacrers to at once be convinced of the great necesof the adoption of some such rules. No two ills grade their number in the same manner.

DAMAGES FOR ACCIDENT.

Blow vs. Lundon and Petrolia Barrel Comny came up in the Divisional Court at pronto, before Mr. Justice Falconbridge, on otion by defendants to set aside verdict of jury djudgment of Mr. Justice Meredith, and for witial. The case was an action for damages ian and by statute for injuries sustained by amiff, who while employed by defendents and ting under the directions of one Weir, his perior, and removing waste near a circular win motion, had his left arm cut off. The sintiff alleged negligence on the part of defendits in leaving the saw unguarded, and in not lying a proper mode of ingress to and egress omit. The jury did not agree upon an anter to the first question, which was whether feir gave the direction to plaintiff, which plain-I says he did, to approach the saw by a certain ay, and as to the second, found that the saw as unreasonably dangerous, because not prorly covered, and that plaintiff was entitled to 00 damages. I. was contended for defendis that the jury not agreeing to a general rdict, and in the absence of a finding that feir had given a.. Improper order, that plaintiff ould not succeed. Held, that the jury havefound in effect that the saw was not securely guarded, and that by reason of the defendants' neglect to guard it the plaintiff was injured, and that their finding involves a finding that plaintiff was properly where he was when the accident happened, and the motion should therefore be, and is, dismissed with costs.

LOGGING MAHOGANY.

THE following somewhat lengthy description of the mode of of logging mahogany is taken from Self Culture. It is worth reading:

"The mahogany hunter is the most important and best paid laborer in the service, for upon his skill and activity largely depends the success of the season. Ma'ogany trees do not grow in clusters, but are scattered promiscuously through the forests, and hidden in a dense grow of underbush, vines and creepers, and it requires a skillful and experienced woodsmen to find them. No progress can be made in a tropical forest without the aid of a machete, for the way must be cut step by step. The mahogany is one of the largest and tallest of trees, and the hunter, seeking the highest ground, climbs to the top of the tallest tree and surveys the surrounding country. His practiced eye soon detects the mahogany by its peculiar foliage, and he counts the trees within the scope of his vision, notes directions and distances, and then, descending, cuts a narrow trail to each tree, which he carefully blazes and marks, especially if there is a rival hunter in the vicinity. The axemen follow the hunter, and after them come the sawyers and hewers.

"To fell a large mahogany tree is one day's task for two men. On account of the wide spurs which project from the trunk at its base, scaffolds must be erected and the tree cut off above the spurs, which leaves a stump from ten to fifteen feet in height-a sheer wasce of the very best part of the tree, and one which American ingenuity would certainly devise some means to prevent. While the work of felling and hewing is in progress other gangs are busy making roads and bridges over which the logs may be hauled to the river. One wide 'truck pass,' as it is called, is made through the center of the district occupied by the works, and branch roads are opened through this main avenue to each tree. The truck employed are clumsy and antiquated affa., which no American would think of using; the axles and boxes are imported from England, while the other parts are made upon the ground. The wheels are of solid wood, made by sawing on he end of a log and fitting iron boxes in he center, no spokes or tires being used. New wheels are in constant requisition, and repairs cause frequent and expensive delays. Most of the trucking is done at night by torchlights of pitch pine. The oxen are fed on the leaves and twigs of the bread-nut tree, which gives them more strength and power of endurance than any other obtainable food. The trucking being done in the dry season, the logs are collected on the bank of the river and made ready for the floods. On the longest rivers these begin in June and July, and on others in October and November. The logs are turned adrift and when they reach tide water are caught by means of booms. Indian loggers, usually Caribs, follow the logs down the river in order to release those which are caught by obstacles.

No little judgment and experience are required to determine at what exact stage of the flood the logs should be set adrift. Should the waters rise to what is called 'topgallant flood' before the logs reach the boom, many of them would be carried over the banks and left high and dry in canebreaks and thickets, or covered up by sand and rubbish. From the boom the logs are rafted to the embarcadero and 'manufactured' for shipment.

"Mahogany trees give them from two to five logs each, measuring from 10 to 18 feet in length and from 20 to 44 inches in diameter after being hewed. The manufacturing process consists in sawing off the log ends which have been bruised and splintered in transit down the river, and in relining and rehewing the logs by skillful workmen, who give them a smooth and even surface. The logs are then measured, rolled back into the water at the mouth of the river, and made into rafts, to be taken to the vessels anchored outside the bar."

LACING A BELT.

A writer in The Engineer suggests a new method of preparing the ends of the belt lacing, concerning which he says: Every one who has to lac belts knows how difficult it is to push the soft ends of the lace through the belt, unless the holes are much larger than they should be. majority of men use either a nail or the point of a file to aid in this work, but this is cumbersome, and, too, a nail of the proper size or a file is not always on hand. There are metal tipped laces and also metal tips on the market, which are adapted to cover the end of the lace and thus make it stiff enough to be pushed through the holes in the belt, but I believe my method is superior to either of those already mentioned, inasmuch as it is more of a time saver. My method consists in holding the tapered ends of the lace leather over a lighted match until the leather becomes charred, when it will be found to be quite hard, and plenty stiff enough to be pushed through the holes in the belt without breaking. Care should be taken not to char the leather too much, otherwise it will become brittle. A little experimenting will enable the work to be done just right.

TREATMENT OF RUBBER BELTS.

To obtain the full value from a rubber belt, it is essential to buy the best belt, provide pulleys of ample diameter and face, avoid excessive strain, distribute the strain over the wnole width of the belt as equally as possible, have the fastenings made so that they will not pull out the ends of the belt, and avoid having the belt exposed to excessive heat or to grease or dirt. You can greatly increase the service and life of a belt by applying with a brush a composition made with equal parts c' red lead, black lead, French yellow and litharge mixed with boiled linseed oil and japan, enough to make it dry quickly. duce a finely polished surface. This will pro-A coat of the same composition may be applied if the rubber gets peeled from the surface of the belt. Animal oils, grease and castor oil are injurious to rubber belts and should not be used, the composition mentioned above being all that is necessary. Belts to be adjusted to the pulley should have the ends cut square and true, and be cut shorterthan the distance around the pulley by an 1/8 to 1/4-inch tor every foot when measured with a tape; a steel tape is the best. They should be stretched as tightly as possible, and with wide belts this can be done best by the use of clamps secured firmly to each end of the belt. There is no danger of breaking, as a belt of good quality, 6 inches wide and 3-ply thick, will stand a direct strain of 5,000 pounds. - Steam Engineering.

Mr. A. F. Bury Austin, the well known lumber merchant, of Montreal, left for British Columbia on November 19th, on an extended business trip. Upon his return he will be pleased to receive enquiries for all kinds of material in his line.