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PRUNING FOREST TREES.

At the recent Forest Congress at Montreal | shows the same increase in value. the following paper was read by Mr. John S.; Hicks, of Roslyn, N. Y., entitled

"THE COMMERCIAL VALUE OF PRUNING

ent of the lumber product of trees, not for the centre, even if it is knotty for a foot or beauty, only the increased value of the sawn more in diameter, it being of so little cost at lumber. The value of clear in comparison with the stump that it might make but little differ knotty lumber is well known. The defects of ence. looso knots and much of the rotten lumber is due to the want of pruning.

Trees when quite young have branches exten- ing will at once be seen as an element of profit. ding to the ground, as it grows these, if not pruned, will die and in time produce a black knot that will continue to extend . hrough the tree as long as the branch is attacued, causing the tree when sawn to produce lumber with black or loose knots.

Often when the tree has been standing a long time the branch will decay, this decay extending to the centre of the tree, causing it to be worthless while it looks sound on the outside, and its condition is only known when sawn, in volving a loss of all expenses and costs.

Clear lumber of all kinds is only obtained on the outsides of the log. All logs having a conter of knots, if this can be made small and the few knots kept sound, as they will be by being lifetime to harvest. cut off when alive and quickly overgrown.

With the hickory and the oak there is still more difference, as the knotty lumber has no oak and hickory logs are scarcely worth cutting and aplitting small enough for firewood.

I have now in mind a hickory tree nearly two feet in diameter, that for the want of pruning was not worth the labour to split into firewood; had it been pruned early and with but a few hour's labour expended, it would have been easily worth \$30 to \$50.

White oak timber, if knotty, will so check and warp that it is worthless.

The chestnut invariably shows the decay of the dying branches in the centre of the log and rendering the timber of but little value.

In most if not all of our more older woodand the trees that are best suited to the soil will that two locust trees are now growing at Roslocust timber on Long Island.

while the common or knotty-pine is winth but on good resons, this kind of cedar is very much bed, liable to the greatest pressure when struck, in the Ontonegon region.

a tew dollars more now than then. Hard wood

When we realize that the old growth of forests are melting away so fast, and that will not long have the old century growth of trees to cut clear I would call attention to pruning for the ben- | lumber from the outsides, caring but little for

> But when tumber has been planted and each ear of its growth matched, the value of prun-

> Forests showing a sound growth of smooth trees, no dead and decaying branches will at all times have a value time will repay all the ex penses of pruning and replacing trees of value for worthless ones.

> The fact is we have never cultivated our woodlands, and do not now realize their value, or what would be their value if in proper con-With clear dition. But we will soon learn. pine selling at wholesale for \$65 per thousand feet; black walnut, \$100; oak, \$65 to \$85; hickory, \$85 to \$120.

> We will then scarcely believe that we have devoted so much time to crops of a yearly growth, and done nothing for these that take a

CEDAR FOR BLOCK PAVING.

Now that cedar is likely to come extensively value over firewood, and as the large knotty into use for block paving, it is necessary to apply some test which will prevent bad or decay ing cedar being used. The Corporation of Toronto, in its specifications for this kind of work requires that none but live cedar be put in ; but this condition is far from being adhered to in practice. There can be no doubt that this restriction is a proper one, and we fail to see on what authority corporation officials authorize a departure from it. It is clear that they have no authority to waive one of the essential conditions of a contract. Codar dies from various causes; from an excess of moisture, from the ravages of worms, which get below the bark and which eat a slight distance into the albumum or lands, trees are allowed to grow as nature starts | sap-wood; occasionally the roots ret, probably | ing. The worthless ones are not cut out and from being lifted up by the frost. No cedar replanted with those of value. It has been the which is cut after it has died is as good as one mences in the live tree, and is carried on by thought of many that nature attends to all this, cut while living, and some are quite rotten grubs or worms below the bark, probably ceases when they die. Small codars which die first at soon after the death of the tree; for, unlike the grow. This error is 1-lainly shown by the fact the root are almost invariably rotten by the operations of the furniture beetle, the ravages time the foliage withers. Cedars killed by of this grub are superficial, and can be traced in lyn, L. I., that originally were brought from worms are in a state of decay when they die. a kind of graving on the outside of the tree Arginia by Capt. John Sands, of Sands Point, Sometimes a tree will stand erect years after it when the bark is taken off. But when mechanin 1785. From these two trees and another at in dead, and these years take so much out of the ical decay ceases, natural decay, the work of low Oyster Bay, L. E, have grown all the valuable wear it had in it when it died, yet we see such forms of parasitical regetation, is very likely to cedar as the used in Toronto as short posts to commonee, and this is more likely to happen in When we notice that the value of clear pine support the planks that mark the line between a tree which dies a natural death, than in one has nearly doubled in value in the past ten the boulevards and the cedar block readway, which is cut down in a healthy state. years, and is higher now than black wainut was ! The intention of the corporation has been to rether, and is higher now than black wainut was ! The intention of the corporation has been to rether the part of sich block most liable to decay is then, and is still increasing in value each year, , ject them, and though the restriction is founded the outside, which is also, when laid in a road

he is willing to pay for it.

some time to dry before it is used. None, how where there is no striking or pressure to resist.
over, seems to have been made by the City. But surely cedar is not the only wood in Council of Toronto, perhaps because if we had, which we ought to experiment in block paving to got dry cedar, cut when alive, we should have our streets. Several other kinds are used in to postpone the making of some of our cedar England, and some not used there might be But the error is one which ought to be tried here. Monetary Times. corrected when opportunity offers.

We are satisfied that the rejection of every kind of dead cedar rests on substantial grounds -not that some kinds of dead codar have not considerable wear in them-and for some pur poses they are useful: but if dead cedar were allowed to be used in making block pavements, w should bargain for rottenness and decay. could not complain when we got them.

Of live cedar, that is best in which the dura men or heart wood forms the greatest propor tion of the whele, and the sap-wood the smallest part. The heart-wood is permeated by a sccretionary matter of a resinous nature, insoluble in water, while the mucilaginous ingredient of the sar wood is soluble in water eral and well-known tendency of sap-woods to decay is not less in cedar than other kinds of wood. Round cedar posts decay on the outside, but in small posts the decay is greatest, because the thickness of the sap-wood relatively to the diameter of the trees is greater. The heart wood of the cedar is pecultarly liable to decay, under some conditions of growth or age. When this decay manifests itself and proceeds far, the sap-wood is the best part of the tree. By the process of kyanizing, which consists of injecting somo preservativo substance, such as creasoto, the sap-wood can be made as durable as the heartwood; but where this is not done, the less the proportion of sap-wood bears to the heartwood the better. Very small blocks are almost certain to be, in this way, objectionable; and a good rule would be to establish a minimum size, below which no block should be used for pay

The mechanical decay of cedar, which com-

used for this purpose. It is useless to say that say by the point of a horse's shoe at an unfavor live cedar cannot be get, anyone can get it if able angle. The tendency of these two causes namet be to make the blocks decay on the outside A distinction should be made between live first. When the proportion of sap-wood is ecdas and green codes, though the tree should large, the chances of decay are increased from be felled when it is alive, it ought to be allowed, two causes instead of the one which exists

FIRST CIRCULAR SAW IN AMERICA.

R. O. Hussey writes as follows to the Builder and Woodworker: 'I have long known that it was a very old invention, and have sought very diligently to learn who first used the saw in this country. Without presuming to certainly know about it, I will say that the first to use it of which I have any information was Constant Wyatt. In the early years of the present century Mr. Wyatt worked at cart and wagon making in the neighborhood which is now embraced in the town of Pawt "-" st. R. I. At the time I received the informat _ he was still living, and I sought him and received from him in person this statement: 'About the year 1800 I heard by an Englishman that there was in England a round saw in use for sawing plank, and it seemed to me that such a saw would save much hard work. I went up to a shovel factory and got a plate that had not been bent to shape, and from it I cut out a saw and filed up the teeth as well as I could and set it to going in my shop. It was rather a rough affair but it saved me much labor. Afterwards I made a better one and used it several years, and when the war was over I sent and got one from England.

"I had the above statement from Mr. Wyatt many years ago and as I have not been able to learn of any one in this country who used one before him I have believed him to be the first maker, user and importer also, of circular saws in America, and that to the bright town of Pawtucket belongs not only the credit of running the first cotton mill, but also that of the first circular raw."

Quebec.

It is reported that Richard White's white nine timber, about 52 feet average, 161 inches girth, has been sold at 31hc. per foot, and from two to three drams of Muskoka waney board pine, 19} inches, at 35jc. per foat.

THE Northwestern Lumberman says about 30 workmen were brought from Ottawa, Canada, by the American Lumber Company, the other day, to begin operations at Newberry, Mich. Another year the company expects to have about 1,000 men in its employ at Newberry and