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PLANING MILL PRACTICE.

WHAT do we do, or what can we do, to make all of our planed stuff of uniform thickness? Every man for himself and every mill for itself seems to be the motto and way of sell and every mill for itself seems to be the motto and way if doing business, each having a style and thickness of its own, and each varying a little. Some have a way of making their work just a little large, and anything that does not plane up at that goes one-eight of an inch thiquer. Another mill has a way of making its stuff a little thin which picks up all these thin boards and everything goes in a what they call a standard thickness. That is the standard for that mill. But, to be more particular, what do these individual mills do to make their own stuff of their standard, uniform thickness? Every their own stuff of their standard, uniform thickness? Every man, when he first starts up, takes up his rule and tries one edge and then the other, to see if both sides are slike, and if one edge is a little thicker than the other, he stops, and if he is funning two sides he raises or lowers the pressure bard till be gets it right, and then proceeds. But just as likely as not when he measured the first time his inleginatend of being straight across, was held at an angle of several degrees, and the heard was really thinner than be thought in was, and when he comes to measure again the fault is corre red. and now he finds at the first time he measured wrong because he was wrong him-el it, and the adjustment has to b all overhauled agaio. Finally it goes right, or, at any rate, it goes to suit him, and he goes on with his work.

Many persons carry one of thes little caliner rules in their pockete, which is well enough in itself, but generally they have been carried so long that the izures are all worn out and they have to rub the bar in their lair to draw out the figures, the same as I have seen people r b the old four pences and six-pences to show the har on then

The way or measuring stuff t see that it is of the right thickness when we first start up is the correct way, but the way rules are often used is anything but what it ought to be, and a great many times makes the stuff anything but of a uniform thickness.

If we should take a solid gauge for thickness and slip it on to the edge of the board we shoul find that our rule measurements were very far from being perfect thing.

Hany person will take the pas n tom asure the stuff he is planing with a rule, and be as crick as he can, and then take solid gauce made of some kind of hard wood or metal, and he will see that the ordinary measure by a rule is quite a ways from being perfect, and yet we s o surprised to see that boards will show quite a difference whin measured by a solid gauge,

and when they are piled up the pile will stand equate.
We all (or most ale) of us watch the pile as at growe higher and higher, when it goes away from the mill, and if it piles up aquare we "rest the case" and are satisfied that the nill is running right. But, as I have said, if we take this same pile and slip as lid gauge over each edge we shall more than as likely as not find that it will show it to be quite a ways from both edges being alike.

Now, while I shall argue that all stuff, wherever planed, should be of one thickness, i. i., that \(\frac{1}{2} \) inch should be just \(\frac{1}{2} \) inch severywhere, and \(\frac{1}{2} \) should be just that anywhere we may find it, or \(\frac{1}{2} \) should all be that, no matter who planes it or where it comes from. If we say to have 15 16 let it all be of a uniform thickness, and not is 1-32 scant or full, as the case may be, according to the mill a may come from.

Well, how are we to get at this uniformity? We all know that under the present conditions it is next to impossible

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to do it. We might as well try to bring order out of chaes as to attempt any such thing under the new existing elecumstances, when everyhody "padilis his own canoe."

Lumber conventions get together and talk up matters of interest in their business were dollars and cents are concerned, but I never have seen or heard of their talking up anything of this kind, notwith-tauding I do think this and some other like things would be matters of interest to talk up when planing will men hear their blockelle. mill men have their big talks.

As an operator, I can see why it is next to impossible for every board in a lot (unless it should be a small lot) to be of the same thickness. You see, a man carts out on a lot, say 10,060 feet of boards, and he runs along ill his knows get dull, and all the while his stuff is varying in thickness a little. The rule hardly shows it, but if a solid gauge is slipped over the edge it will show very plainly there is a feelded change in thickness. Well, he runs till he thinks it besette sharpen his knives, and after sharpening starts up to run the rest of the lot. Perhaps he dont even try the thickness of rule, but if he did, the difference was so small he didn't blok it worth noticing, and works on till the lot is finished. Now the "slanest impossible" works on till the lot is finished. Then the "elmost impossible" comes in in the present arrangement of the parts of the planing machine. If the operator wests to alter just a least bit, he must let his board run out and some up with the tightening nuts and turn down perhaps he a turn and then torn up again till he guesses he is about 18th, and starts up. Maybe he is right and maybe not. If not, he tries it again, bethaps this time guessing. We have tolk me down to the fact that all these litt'e alterations are little, if any, better than guess work. work.

A great many planers have a gauge to set them by when we are about to make any considerable alto, atom, but when we are about to make any considerable altolation, but when we come to alter just a little or, as we meanly all say, "just a hair," then a gauge does not amount to anything, and we have to guess that we have lowered or russed the head about enough. We should have to do all of this even if we had the most perfect apparatus in the world for measuring the thekness of stuff, but if we had better gauge for making these measurements and paid strict attention to their use, I think planed stuff would be much more uniform in thickness. When nothing better is to be had, if we take a god, hard piece of oak and cut into it acress the grain about two inches deep, just the and cut into it acress the grain about two inches deep, just the thickness you want the stuff you will have conciling that will last a great while and be very accurate. But the hardest of oak wears away finally, and gradually the standard becomes thicker, until we have to make a new oak gauge and reduce thickness to just the point we want it.

A wooden gauge is always more or less faulty, b-cause in

damp weather it absorbs motiture to that extent that it becomes perceptibly larger. I hought one time that I would have a perfect gauge to work two sides with tongue and groove in the centre, so I took a piece of hard maple and planed to pieces 5-16 and another 1 inch, and tutting the 1 inch in the centre in a way to form a tongue and groove, I glued the three parts together solid. I did have a nice one and as perfect as a wooden gauge could be, but I found by using a silid iron gauge for the kness that wet weather would make it quite a little large. By using the two together I could, by watching out, make stuff very nearly all alike.

I have in my mind a gauge which, I think, would give good

satisfaction to all parties concurred.

A bar of steel, § by 1 inch and about 6 inches long, ground and poliched and marked like a rule thirty seconds on one

ride and tenths and twelighs on the other. On one end of this har should be a solid fire head, having considerable surfaces and projecting 12 or 2 in hes. On the bar should be a sliding head just as large as the politone, and fastened firmly with a set screw. The movel less head could be set to any point and would always be reliable in the scale on the bar was right, the thickness would be correct and the tool could be used as long as any ordinary man would want to work in a planing mill.

If it went through the section fan several times or got into the furnaces a couple of times, where wrenches and lofs of other tools frequently find a stopping place, it would become vary much demoral zel. If such a tool were in common use, as it ought to be, another wight to be bought for about \$1.50, which is the price such a thing ought to be made to retail for. ride and tenths and twelshs on the other. On one end of this

which is the price such a thing ought to be made to retail for. We ought to have this for this work only, and not make it, as many other tools are mid., with forty or fifty things attached to it. Say a saw set and glass cutter and can opener, a hammer and scrow driver fand gimlet twister and socket wrench. Tools work best that are made for and used for a special purpose and not for an, thing else. We think sometimes it is a gain to use a monkey wrench for a hammer, but if

we do we very so in have neither wrench nor has mer to use, and have to beg, borrow, or by both a wrench and hammer.

Now, I don't think a so'id duce to slip on to the edge of the boar I would once all the ills that planing humanity is her to or make every board from Maine to California of exactly the same thickners, yet I do that if they used to a proster extent then they are, and a corpus amount of beedlessness was taken out of some mer harding our planing machines by by some kind of patented preces, there would be very much less grunbling among those who make the door and window frames and casings and averagines of work where have is are brought together and show their varying thickness, and have to be trimmed with plane and chied in closeque of I. T. Langdon, in the Bu''der and Wood-Worker.

AN AMERICAN OPINION OF CANADA AND ITS RESDURCES.

The following is taken from the Messe-ipp Value Lumber-man and Manufacturer, and is an instance of the folling existing across the berter, regar lies the agricultural tumber and mir real resources of Canada.

Last week we had be assen to notice the comme content of the construction I too Winnipes & Hulson Bay raise sy, and alluded to the mi-apprenedsion which exists in referee on to the great region known as Bugon America, strouching in a brind belt from the Atlantic to the Pacific and all north of the Northorn boundary of the Truted States to the Artic real no. This has been a terraincognita to all the world except the Hudson Bay For Company, who carefully concooled its wenders from the public gaze for a century. A thin border of sottlements stretched the prelies out the length of the St. Lawrence River, and pushed their way west along the Southern British border until they have reached the Pacific coast. This belt of, say 100 miles wide and 3,000 miles long, has been demonstrated to be not only a habitable country, but one capalle of sustaining as deule a population as the same belt across Europe and Asia does now. A quarter of a century ago a large part of this belt was reported to be an axid waste, so blesk and desolate that only forced animals and Esquimanz could inhabitit. Now Manitoba, Assiniboine and Saskatche-wan are conceded to be the best rivale if not superiors to Dakota and Montana as wheat producing countries. Van