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HACKMATACK KNEES.

Among the board piles and hears of shingles which line Bangor's wharves at intervals are noticed another product of the forest which, a thoug used for many purposes and shipped far and wide, are little known about. knees, which come from the roots of the hack matsck and spruce tree, generally from the former. The handling of knees has been carried onin Maine, for many years, and although the trade has declined considerably late, several firms are yet engaged in it. The knee trade is not what it once was, for the reasont hat shipbuilding has declined while iron knees have to a considerable extent taken the place of wooden. A wooden vessel requires a great many knees, large and small, overy deck bean, being fitted with six - three at each end- and when shipbuilding in Maine is good, so is the knee trade. A good part of the knees sold now go into the construction of large warehouses in the big cities, fluating bath or boat houses, barges,

year. Sometimes a man can make four or five scattered . for knees, as may readily be inferred, and a land where such trees grow, the hard clay turn- dence and Maryland, and the box-ward ali over the shorter as the root. The knees are of various sizes, designated by numbers from four to ten, The dimensions range from four feet # 25.

abounds in backmatack. Regarding the present

falls. A gnarled and stunted tree is the best been used for paper pulp. The speed stock has motive. been sent from Bangor to points as far di tant leam subuil with clay bottom is the kind of as Paisley, Scotland; the pulp-wood to Provi-

LEAKAGE AT TUBE ENDS.

Bangorare cut in Piscataquis county, which struction may consist of insufficient rolling, or up the cards. too severe rolling or expanding of the tubes, by | All engineers who are handling powers of any

land agent named McIntire, who must have located in the head close to the tubes, and when working of your engine. It will not only encome of the famous "bold McIntyres," for he it is, and cold feed water is used, the tubes in able you to review your experience and retain was a man who used his authority for all it was the immediate vicinity are almost sure to show (valuable information, but suggestions will frewas a man who used his authority for air to was worth, and in this particular instance for more. A chronic leak. A heavy coating of scale on the quently arise from it which will be invaluable. In his time there were certain denizens of Nica. heads between the tubes is sure to set them. It begets a habit of thought, and furnishes tou, now Medway, who were accustomed to leaking severely, as the water is thus kept away the material for deductions which will make helping themselves liberally to the timber about from the head and tube ends, and they become I you a success in your business, and gives you a Quakish Lake, which won the West Branch of overheated. In this case the only thing that | means of proving what you have done and can Penobscot above Grand Falls This timber will do any permanent good is to remove the do, which no amount of assertion on your part then belonged to the State, as it stood on land cause, that is, the scale, when generally, if the correcommendation by others can equal. -Jour that had not yet been conveyed to any purchas defect has not existed for too long a time, the nat of Commerce. er, and McIntire resolved to put a stop to the tubrs may be rolled and made tight again. But Nicatou people's enterprising operations. There a comparatively short time of severe leakage in was a great growth of meadow hay in this this case is pretty sure to so severely corrode the section, on which the tresspassers depended for ends that new tubes are required. This collection sustenance of their cattle, and the land tion of scale is also a fruitful source of burning agent, preceiving his, ordered some of his and cracking of the back tube sheet. The front henchmen to set his to the dry grass. They did, | end of the boiler is not so much subject to this and quite a conflagration started. In fact action, as the heat to which it is subject is not McInture builded better than he knew, for in- so intense. The removal of a heavy coating of stead of simply burning up the hay the fire at incrust the form between the tubes of a boiler tacked the fine old pines and hardwood trees is sometime a matter of some difficulty unless and swept across the country nearly to Moose- due intelligence is used. With "staggered" Knees are gotten out At all seasons of the head Lake, destroying millions upon millions of tubes, very bad water, and where the boiler is the best timber Maine ever saw. But the fire worked hard, the case is much complicated, and dollars a day and at other times but smal was not all loss, for from its ashes, over the the almost sole reliance is a judicious use of solwages. It all depends a pon whether he strikes stumps of the old pines, has sprung up since a vents, coupled with proper cleaning, as often as wages. It all depends from whether he states stumps of the out pines, me spring up since a locality where suitable trees are grouped to growth of sailing pine, white birch and poular—the boiler can be spared for the purpose. With properly arranged tubes much help can be obtained at three trees which are the source of much of the properly arranged tubes much help can be obtained at the trees which are the source of much of the properly arranged tubes much help can be obtained at the trees which are the source of much of the properly arranged tubes much help can be obtained at the properly arranged tubes much help c He selects the biggest root for the manufacturing hie and a minercial prosperty tained by the use of proper chisels and scrapknee and then bores into the tree trank a little of Piscataquis and Penobscot. The ramous ing tools. Still no rule of procedure can be square inch, showing that it is much stronger knee and then bores into the tree trank a little of Piscataquis and Penobscot. The ramous ing tools. Still no rule of procedure can be than paper made from one third rags. As all way from the ground to find whether it be despected would district, with its factories, is including given that will apply to all cases. A thorough kinds of paper can be made from this pulp cayed or sound. The knee is cut out in a rough ed in this rejuvenated forest section, and from examination of each case is always necessary to without the addition of rags, cutton, or juto, it manner with an axe and shipped to the nearest there are obtained second-growth pane logs determine the best method of procedure, and it can be manufactured at a reduction of from 30 buyer. Sometimes the tree trunk is taken from which so many millions of box-boards are is always easier to keep a boiler clean than it is to 50 per cent or the breezent contributions of the procedure. out for timber, but it is oftener left where it sawn, and the poplar, of which so much has to clean it after it is brilly foeld. - The Loco-

KEEP A RECORD.

Some weeks since we called upon an engineer ing the roots aside and thus forming the desired the New England and Middle States, while friend who was thoroughly wrapped up in his angle. The knees, as its name indicates, is thousands of sacks of finished spools are in to machine. In the course of the conversation he formed of two parts at right angles with each Connecticut and elsewhere. -J. D. in Maint produced a book in which he had for months other. The lodger is known as the stock and Industrial Journal. | kept a record of the coal consumed each day, and the horse power developed by his engine as shown by indicator cards taken in the fore Leakego at tube ends is one of the most tre- and afternoon. These cards, being filed, served length of stock and two feet root for a No. 4 quent and annoying defects to which the ord- as a record of the condition of the engine in knee, to five feet six inches stock and four teet many horizontal and upright tubular boilers are; these respects which are apparent from the card, not for a No.10 The thickness varies, according subject, and while it is not necessarily on its. This was kept for a long time without his to these dimensions, from four inches to ten, first appearance dangerous, it indicates that couployer's knowledge, half in fear that some after the rough knees have been run through a something is wrong either in construction or objection would be raised, but was at length Daniel's planer. The prices paid by dealers to management of the boiler, and it should be produced to settle one of the innumerable attle the cutters are as follows. No. 4, 20 cts. (ach, attended to at once, for it neglected the result points, which only such a record can definitely No. 5, 50 cts. each; No. 6, 65, cts. each. No. 7: ing corrosion of the head and tube ends will settle, and met with so hearty an approval that No. 5, 50 cts. each; No. 6, 65, cts. each, No. 7: ing corrosion of the head and tube ends will settle, and met with so hearty an approval that \$1.25 No. 8, \$2.25, No. 9, \$3.25 No. 10 speedily induce a dangerous condition. Many the engineer was supplied with a record book, explosions of upright tubular boilers have re- purposely ruled and lettered, and a planimeter The greater part of the knees that collect to suited solely from this cause. Faults of con- for the more convenient and accurate working

timber growth of Piscataquis I heard a good which the ends may be split or cracked, so that ox ent should mangurate a system of this kind parn the other day. It seems that away back it is impossible to keep them tight. The second Keep a record not only of your coal and power, in the dim z id legendary good old times that defect is, perhaps, more frequent than the first. but of changes which are made and their we hear so much about, there was in Maine a The feed-pipe is also very frequently wrongly effect upon your fuel consumption and the

SAWDUST PAPER

A Vermont newspaper has recently appeared which is entirely printed on paper made from sawdust, the product of Mr. Pond's roller pulp machine, by which sawdust, shavings, chips and pieces of wood can be made with great rapidity into a pulp of clear, fine fibre. This machine will also manipulate the stocks of cotton, sugar cane, wild hemp, etc., at the rate of from 2 tons of dry pulp per diem. The resulting pulp is far superior to any other form of wood pulp because the fibre is preserved intact and the cellulose is left with it, giving it great strength, softness. and pliability The tensile strength per square inch of newspaper, which contains from 50 per to 50 per cent, or the present cost. The un bleached pulp is also useful for wrapping-paper, and is equal in color and strength to the best Manilla. The woods most adapted to the proress are the soft woods, such as spruce, fir, pine, poplar and hemlock, the latter making the strongest fibre being equal to jute in strength. Resides the manufacture of paper, the pulp can be utilized for woodware, such as pails, barrels and mouldings - Journal of Progress.

A DESPATCH from Pichanock on Oct 5th Lumbering is going to be very brisk in this neighborhood this season. For the last three or four years nothing has been done on the Gilmour limits, and this year several jobbers have received contracts from Mr. Gil mour at very fair prices, and a number of them have already entered on the fulfilment of their Men and provisions are arriving daily, and there is every prospect of thinks being pretty lively here this winter. Mr. Gilmour's Pickanock farm has been re opened, as have also the offices and stores. The Gilmours themselves will also carry on operations on a fairly large scale. Prices average to jobbers from 80 cents to 90 cents per standard.

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