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## HISTORY OF THE SAW MILL.

How surprised I was on seeing in a museum. a long time ago, such things as scheors, seal were taken from Egyptian tombs 3,000 years old t

But, after all, men were men 3,000 years ago, and women were women. They had the wants. the needs, the vanities of men and women, and they had brains not unlike our own to supply

The most boastful Yankee (not that Yankees are more boastful than other people) in some of the rooms of the British Museum is obliged to confess that the ancients originated a great many good notions which we moderns have only improved upon.

For instance, there are few tools more ancient than the saw. All the ancient nations annear to have had it; certainly the Hindous, the Egyptians, the Greeks and the Romans. saw may have existed even before there were any men on earth.

There is a creature called the saw fly, with two saws in its tail, which it actually uses for sawing the stems, leaves and fruits, wherein its eggs are to be deposited. There is also a sawfish, the long snout of which is a saw. It is said also that the original inhabitants of the island of Madeira found a ready-made saw in the backbone of a fish.

The Greeks had a pretty story attributing the invention of the saw to the accidental finding of the jaw-bone of a snake by one Talus, who used to cut through a small piece of wood. Being a slave, and finding that this jaw-bone eaced his labor, he made a saw of iron, and thus gave mankind a new and most valuable

The ancient saws differed from ours in two ways. The teeth were so arranged that the large numbers of strong men. cut was made by pulling instead of pushing, and the teeth, instead of being set one to the right and one to the left alternately, were set so that ten or a dozen in succession were slanted one way, and the same number the other

cross-cut saws for two men, also saws for cutting their strength, marble into slabs. And they had a kind of tub, similar in principle to the method now employed.

Among the pictures uncovered in the buried years city of Herculaneum there is a representation of two genii sawing a piece of wood on a car penter's beuch very much like ours and using a saw with a wooden frame similar to those now employed. Still more strange, the frame saw tightened with a rope and stick, such as our street wood sawyers use, was probably as far "ar to the Romans as it is to us.

a good while ago with a view to applying the forces of nature to the performance of this toil.

A learned German investor who has investi gated the subject very thoroughly states that for the year 1337.

The reference is slight, and does . t fix the inch thick. fact with certainty. But there are two saw mills near that city which are known to have existed as far back as 1417, and they are still used.

Before that valuable invention, all boards and planks were split with wedges, and then hewn to the requisite smoothness with the

The splitting of boards is still practiced in remote settlements, as I myself have seen, and soften it by steam, and cut it into veneers it is recorded of Peter the Great, of Russia, that he had much difficulty in inducing the dust. tumber cutters of his empire to discontinue the | Damel Webster tells us that his father had a method. At length he issued an edict forbid ding the exportation of split planks. Even in Norway, covered with forests as it was, there was not one saw mill before 1530.

man such an outery and opposition that he was further attention. - Journal of Progress. obliged to abandon it.

The sawing of timber by hand furnished occupation, at that time, and long after, to

were called, for the convenience of the sawyers, and the like. When the first paper was made one of whom stood at the bottom of the pit from wood pulp it was thought that poplar was and the other on the log.

plank and board, thick or thin, had to be saw. has been found that spruce wood made better implement. The Greeks, for example, had formidable body, both from their numbers and lalways be a much cheaper wood than spruce,

tubular saw for hollowing out a marble bath. After the failure of the Dutchman in 1663, technique of oxcelsior. Poplar usually will become wavy and pliant, and run tubular saw for hollowing out a marble bath. After the failure of the Dutchman in 1663, technique of oxcelsior. Poplar usually will become wavy and pliant, and run tubular saw for hollowing out a marble bath. After the failure of the Dutchman in 1663, technique of oxcelsior. Poplar usually will become wavy and pliant, and run tubular saw for hollowing out a marble bath. After the failure of the Dutchman in 1663, technique of the marble bath. saw mill in England for more than a hundred never grows very large but grows quite rapidly.

> capital built a saw mill to be moved by the langer growth. After reaching that size in the spindle, and saw plate, extra lubrication is rewind. It was to ought to be a great and difficult enterprise, and it attracted much public attention. Some years before an author had explain ed the advantages and economy of saw mills: then the society of arts gave the scheme of building one their approval, and, finally, the

Sawing by hand, next to digging a stiff clay sawyers assembled in great force and tore it to to \$6.50 per cord, delivered on the cars in var rings, necklaces, and pairs compasses, that soil, is about the hardest work that men ordin pieces. The Government compensated the lous parts of New Hampshire. It is claimed arily have to do. It is therefore not surprising owner for his less, as was just. Some of by some that spince wood does not make so that our case loving race began to experiment the rosters also were convicted and imprisoned. white pulp as poplar, and that the chemicals A new mill was then built, which was allow

> ed to work without molestation, and proved so profitable that others were soon introduced. In no part of the world, probably, has the

the first trace of saw mill yet discovered is in oped than in Great Brilain, where they have the records of the German city of Augsburg, saws so fine as to cut diamonds, and circular saws nine feet in diameter and a quarter of an

They have have also veneer saws so accurately adjusted as to cut 18 slices of veneer from a rosewood plank an inch thick

In London they will put a log of mahogany upon the mill and cut it into slices thin that the sawdust weighs more than the vencer.

Yankees have beaten this performance. They take a piece of mahogany or resewood, with a k 'e, without making a grain of saw

saw mili after his removal to New Hampshire, at the source of the Merrinac river.

Daniel, who was by no means fond of labor at any part of his life, liked nothing better in Nowhere in Europe, it appears, was the in his boyhood than to attend this saw mill, be troduction of the saw mill so long resisted as cause when he had put his log in position and in England. In 1866 a Hollander erected one started the saw, he had to good minutes for near London; but it brought upon the poor rest or reading before the business required

## SPRUCE FOR MAKING PULP.

A very large quantity of logs, both spruce and poplar, are now coming into use for grind In every town there was saw pits, as they ing up as pulp for newspaper work, cardboards the best and perhaps the only wood which We can easily imagine that when every beam, | could be used, but during the last few years it because it grows very rapidly and has but few A growth of poplar 16 to 18 inches through at extra speed entirely unnecessary, but it is positthe butt is considered very good growth, ively detrimental, as more power is consumed, In 1767 an English timber dealer of large although some few specimens may be found of and more heat engendered in the bearings, average New England soils, it seems to lose, vitality and finally die. Those who cut poplar for pulp wood cut down some very small trees, even down to few inches in diameter. It is commonly cut into four-foot lengths and sold by the cord, New Hampshire lots fetching from w mill, however, by which wind, water mill was actually built by an engineer who had 84 to \$5 per cord. probably averaging about \$4

or steam is made to do the hardest part of the studied the saw mills of Holland and Norway. per cord. Spruce logs cut up in four-feet work, was not known to any ancient nation. No sooner was the mill complete than the lengths are selling at the same time at from \$6 for bleaching are somewhat more expensive in the case of the survey, but it is much sought for on account of the strength of its fibro and the better character of the wood. Lumbermen saw been more minutely and curiously devel are quite ready to get out a certain percentage of spruce for the wood pulp grinders, because they will take some seamy trees, where reasonably clear and of good growth. Such seamy trees are not profitable for sawing into any kind of lumber. There is a great difference in the color of spruce, that which is very white being much more desirable for the wood nuln people. Trees of the same variety seem to differ in whiteness or color, probably owing to the soil upon which they grow. Hence some lots are really worth a dollar a cord more to manufacture into wood pulp than other lots, while both might be worth equal prices for manufacturing into ordinary lumber pulp business is destined to grow more rapidly in the future even than in the past, for the users of pulp and paper and cardinard are becoming multiplied every year. The inventive genius of the Yankee discovers many new application for a product like this almost every day, and the time is rapidly drawing near when a large quantity of spruce and poplar will be required to meet the demands of wood pulp grinders - Manufacturers' (luzette.

## MAKING RETIMATES

Powis Bale, in "Saw-mills." gives for cross cutting soft and medium woods a speed of 10 000 feet per minute at the points of the teeth and says he has yet to be convinced that any speed in addition to this serves any useful pur pose, or is in any way necessary or desirable. In sawing very hard woods the speed of both the saw and the feed of the wood should be reduced, the former about one quarter and the latter one half, or even less. He further says suppose a circular saw, say 30 in. diameter and 12 gauge, be put on a spindle and the speed gradually increased till it reaches at the peri-After the failure of the Dutchman in 1663, economical uses, outside of the grinding up for phery say 12,000 ft or 13,000 ft per minute, it untrue, it therefore follows that not only is the quired, and the belts deterior ate more rapidly.

> THE value of planed and finished lumber, sash, doors and blinds, sent from the United States into Manitoba, during the year ending June 30th, 1885, was but \$72,000 and the value of undressed lumber was but \$22,000.