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W. W. Formood,

Making Fellies.

Patented Nov. 19, 1833.

7804x

Fig: 3.

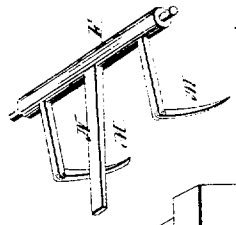


Fig: 1.

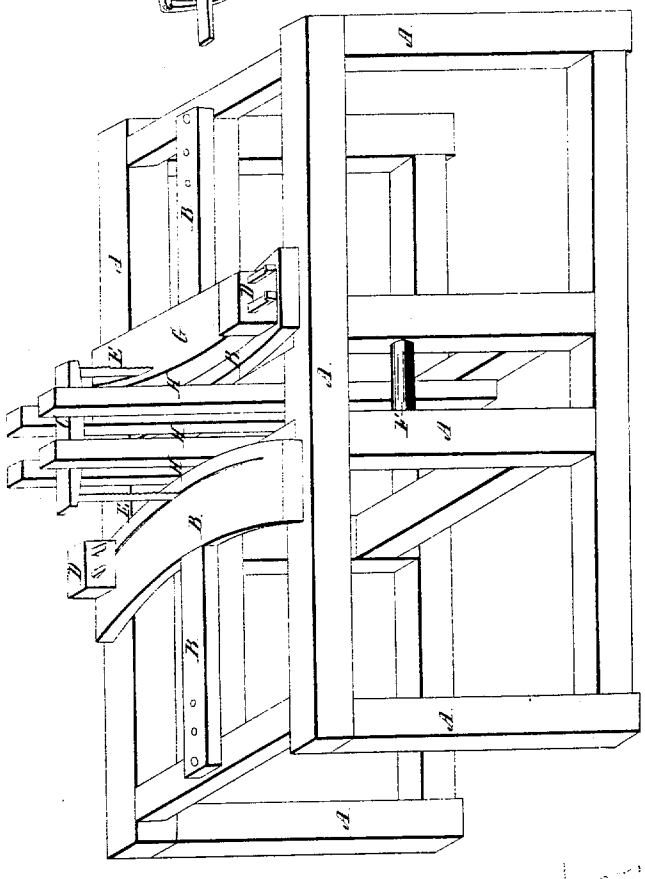
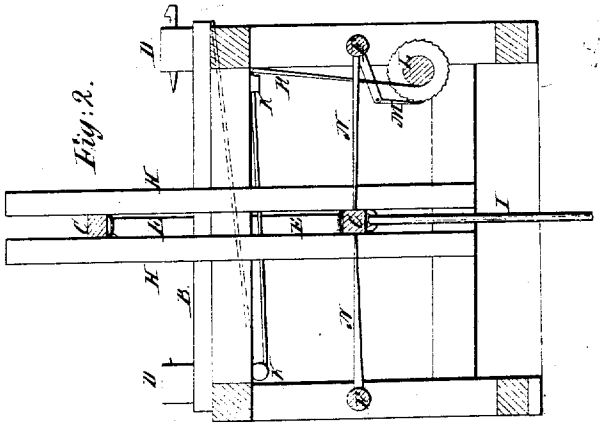


Fig: 2.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

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Nov. 19 1833 287

Wm H Howard Hartford Maryland

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Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said William H Howard himself of his improvement in the machine for sawing felloes for carriage wheels chamfering Shingles sawing knees and other curved & straight work

Be it known that I William H Howard of Hartford County State of Maryland have made an improvement in the machine for sawing felloes for carriage wheels, chamfering Shingles sawing knees and other curved & straight work which is described as follows. —

The frame is made of timber ten feet long four feet high & two feet ten inches wide with eight posts each 4 by 5 inches thick the four inside ones placed nine inches apart, mortised into the top plate & the sills. The two end posts wide & ten inches thick are let into the top plate & square over the inside posts placed nine inches apart for the carriage to stand on. In each end is inserted into each top plate three or four inches from the end, A piece of timber is inserted into the end his one end in the centre thereof each & the other end pinned to the knees which support the carriage. — — —

The carriage is in the shape of a segment of a circle with the pivot set upon which is fixed a head block near each end to receive a key for keeping the block of timber to be sawed in which key can be driven into the block by a wedge or otherwise. A hinge is let into the centre of the chord of the carriage with holes in it at different distances from the centre of which a pin can be inserted into the piece of timber for the purpose of varying the size of the circle. —

A slit is made in the carriage four inches from the one end parallel with it for the saw to run thro. — a cord is attached to one of the carriage passing around the pulley and runs a third way down to the rag wheel. There are four pulley posts six feet long and two and a half inches square for the above frame & machine all sufficiently for

Drawing

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spool to allow the cover of the door frame to work freely thereon. The door frame is nine inches wide and three feet long, with an oval hole formed lengthwise through the middle part to receive a saw at each end perpendicular to the slit in each carriage. There is a roller on each side extending from one inside post to the other, to each of which is adapted a tongue. The end of one is attached to the door frame & the end of the other in a mortise to regulate the pressure of the rollers. There is a tongue placed on each side of the center tongue to which are attached pins for the log to work the rag wheel.

The machine is operated in the usual manner by a fall wheel & crank shaft with pitch & lantern & rag wheel.

In a further illustration of my invention & reference to the annexed drawing of the same deposited in the Patent Office.

Now what I claim as my invention and desire to secure by Letters Patent is the combination and arrangement of the several parts of the above described machine for sawing felloes and the parts thereunto.

In testimony whereof I have hereunto subscribed my name this 14 day of September 1833

Witness
Wm Elliot
Saml Pleasants

William H Barnard

(Patented 19 Nov 1833)

690 acres