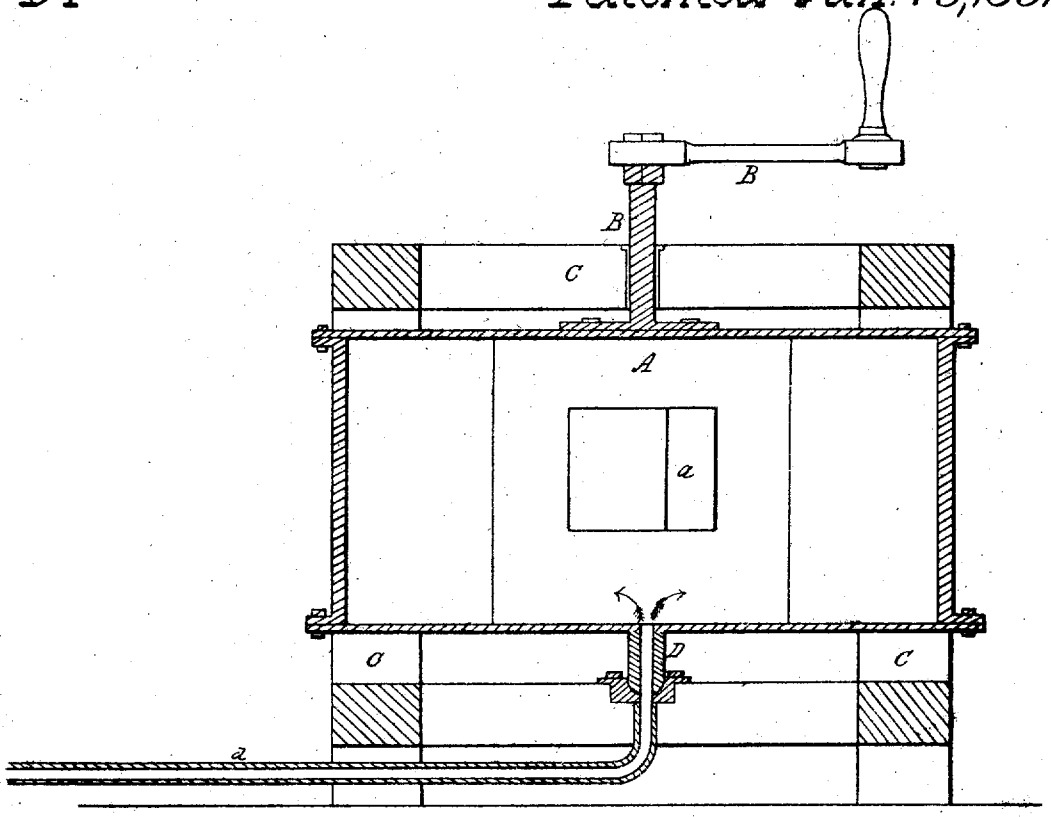
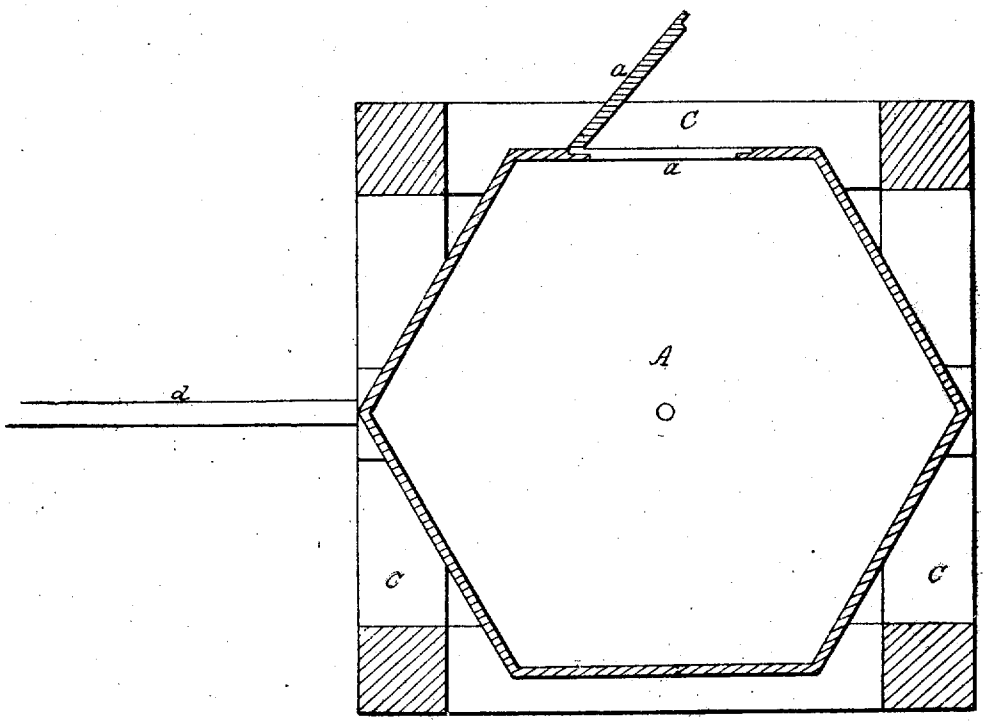
D. Sutton.

Felling Machine.

No 6607X

Patented Jun. 13, 1831.





June 13 1831 10.

David Sutton

Letters Patent

6607X
6/13/1831

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said David Sutton himself of his improvement in the art of dizzing hat felts and napping or coating the exterior of hat bodies with fur by steam.

— — To all to whom these presents shall come — — —

Be it known that I David Sutton of Lancaster, County of Garrard and State of Kentucky, have invented a new and useful improvement in the art of dizzing hat felts and napping or coating the exterior of hat bodies with fur by steam. and that the following is a full and exact description of the construction and operation of said machine and of its application to the purposes claimed by me. 1st A boiler in which the steam is generated. that will contain fifteen gallons. the size of which however may be enlarged or diminished to suit the quantity of work to be performed — the boiler may be made of sheet iron or any other suitable material, the form of which is not material. on which is fixed a safety valve to prevent too great an accumulation of steam — 2nd An octagon or hexagon cylinder with two flat ends 24 inches apart 4 feet in diameter which may be enlarged or diminished (without paying much regard to these proportions) so as to accomodate it to the work to be performed, in which is a small door made light by which the hat felts or bodies are placed into it — in the centre of one end of this cylinder is a gudgeon upon which is fixed a crank 12 inches long by means of which when the cylinder is placed on a suitable frame for the purpose it may worked by the hand — in the centre of the other end of the cylinder

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cylinder is a hollow gudgeon 3d A frame &c any convenient construction in which rides for the gudgeons of the cylinder are placed. 4th A small tube or pipe made of copper or other suitable material by which the steam is conveyed from the generator through the hollow gudgeon into the cylinder. 5th After sticking the mapping or coating on the hat bodies they are then placed in the cylinder in a wet state, the cylinder having no water in it, the steam is then let into the cylinder as above described, after it becomes hot it is then revolved by means of the crank a short time, say from twenty to thirty minutes (according to the fur you nap with) thus by the power of the steam and the revolution of the cylinder the body is prepared to kindly receive the nap and it is forced into the body in a neat and durable manner— as many hats may be placed into the cylinder as can be revolved. 6th To reduce or size hat felts either wool or fur after they are shrunk a little say one eighth they are placed in the cylinder as in a wet state (the cylinder having no water in it) the steam is then let in upon them until they are made hot and then by revolving the cylinder a short time say about twenty or thirty minutes they are reduced to the proper size for napping or coating. Now that to which I claim the right of exclusively using or vending to others to be used. is the application of steam as above described to the reducing or sizing of hat felts either wool or fur and the mapping of hat bodies either wool or fur.

Witnesses

Thos Hilton
Franklin Carell

David Dutton

Ford,
Mfc.

Hobo