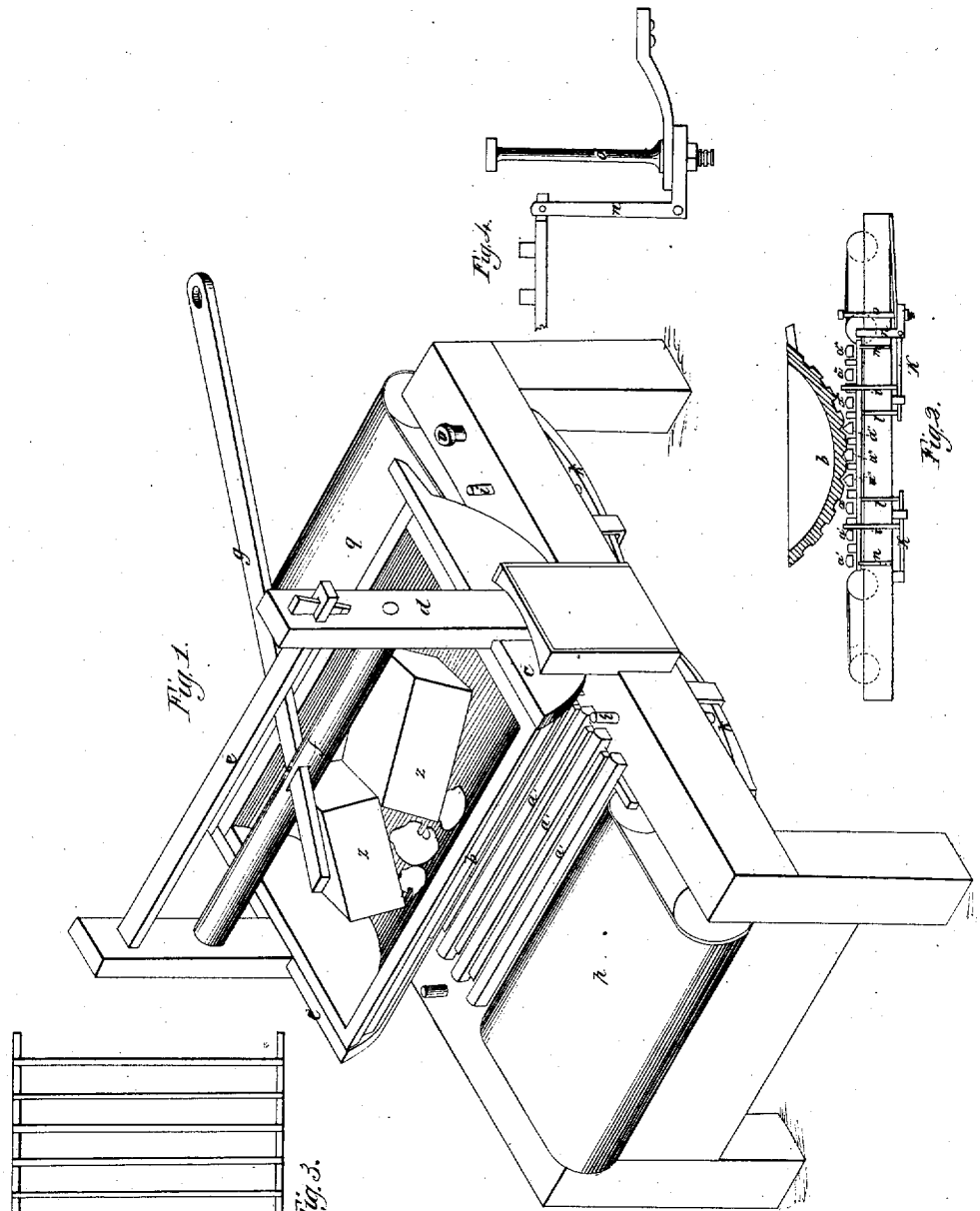
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# R. McCORMICK.

No Printed Specification Av

## Hemp Brake.

Patented Oct. 1, 1830.




N. PETERS, Photo-Lithographer, Washington, D. C.

Oct. 1 1830 6AS x 271.

Robert McCormick
Letters Patent Dated October 1. 1830.

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Robert McCormick himself of his improvements in the Machine for breaking hemp & flax.

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Be it known that I Robert McCormick of Rockbridge County State of Virginia have made an improvement in the Machine for breaking hemp & flax which is described as follows. This machine consists of the following principle parts 1st The frame. 2nd The bed of bars. 3d The flutes or rocker. 4th The upright posts & top piece. 5th The vibrating bar. 6th The cant frame & levers of the feeding & delivering apron

1st The frame is about 2½ or 3 feet high about 8 feet long & 6 feet wide & of sufficient strength to support the machinery to be hereafter described.

2nd The Bed of bars. This bed of bars consists of about 9 iron bars the tops of the 3 in front are made with obtuse filleted angles the next 3 are at an acute angle at top & angular at the shoulders, the 3 next are flat at top about ⅜ of an inch with angles at the shoulders. They are disposed in such a way as that when the hemp or flax enters it is slightly crushed; the second set break it still further & the 3d set complete the operation of breaking. They are made of cast iron 1¾ inch thick & placed apart at about 2½ inches across the frame. The may also be made of wood in the same manner but frequently strung. 3d The fluted Rocker is made of cast iron is cast three being a segment of a circle of about 3½ feet radius, the flutes are made to correspond with the bed of bars before described. It is common to have rockers made of wood one on each side & the sides are connected by a frame. The ends of the rocker extend beyond the bed of bars about 9 inches. The upright posts & top piece. There are two upright posts about 4 feet high & framed into the rockers one on each side. A top piece connects these posts by being mortised & tenoned into them. 5th The vibrating bar is made of wood

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Weylands between the post across the frame a b turns & engages in the upright post & makes a hole mortised in its middle to admit a bar

6th. The vant frame & levers. The vant frame consists of three bars of wood one between each two of the bed bars connected together by a piece of wood at each end of the bars. In the frame where the points of the rockers strike are four pins one at each corner which are pressed down by the motion of the rockers & are attached to the springs below the frame these springs cast over fulcrums & press up the vant frame by means of other pins near the center. The vant frame is prevented from rising too high by means of straps connected with it & the main frame. There are two hent levers one on each side from which the vant frame receives its motion backward & forwards. These levers are attached to springs thro' which two long screws extend down thro' the frame. The tops of which screws are operated on by a projection attached to the rocker yoke. The feeding & delivering frame. These are made similar to those used in thrashing machines & receive their motion forwards by a ratchet operated on by the levers which work the vant frame. Operation. The hemp being first properly prepared is laid upon the feeding cloth. a sufficient weight is attached to the top & upon the upper part of the first rocker. a bar or driver is put thro' the vibrating bar one end of which may be attached to any machinery that will give it a vibrating motion. Motion being given to the machine the hemp is crushed between the fluted rocker & face of bay. the vant frame & levers being operated on by the rocker carry forward the hemp about 2 inches at each vibration till it is completely broken & delivered upon the hinder apron. The rocker is kept in its place by blocks of wood grooved out to receive

ends of the rocking frame. What is here claimed as my invention is the whole of the before described Machine for breaking hemp & flax. For a further illustration of my invention Reference to the model & drawing of the same deposited in the Patent Office. In testimony that the foregoing is a true description of my invention I have subscribed my name before two witnesses at the City of Washington this 25th day of July 1850.

Witnesses
William P. Elliot
Lyon H. McCormick

Robert McCormick