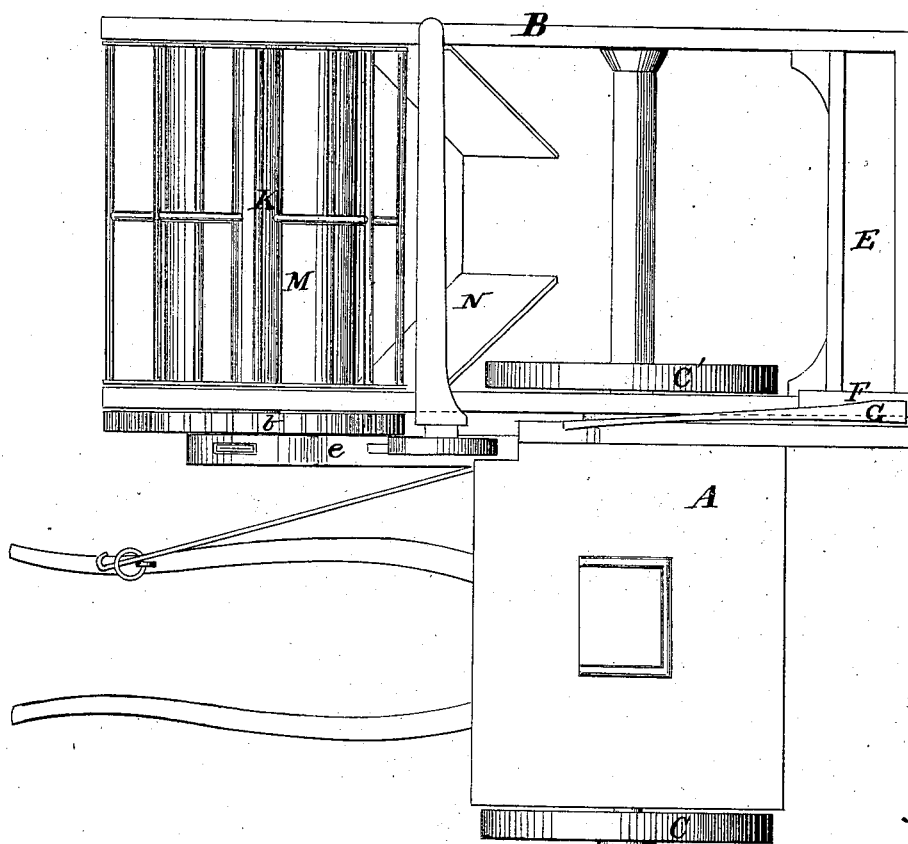


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B. M. Reeves
IMPT. IN
Flax Pullers.

PATENTED MAR 28 1871

Fig. 1.



Witnesses.
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Sheet 2.

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Fig. 2.

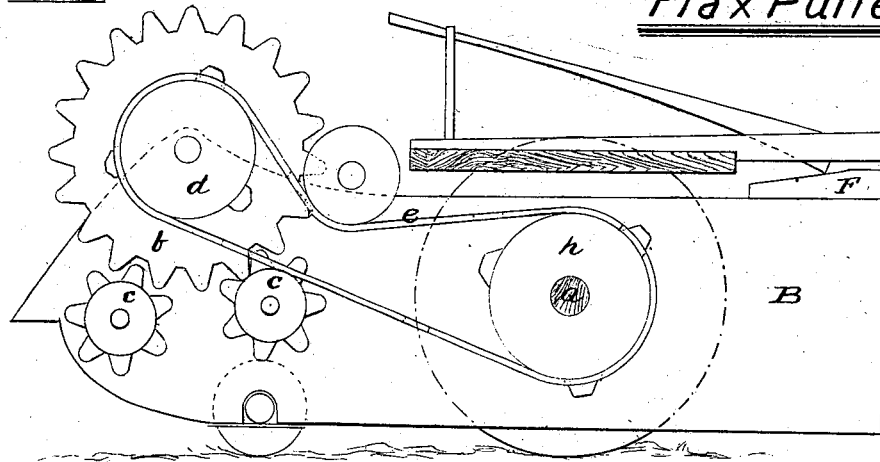
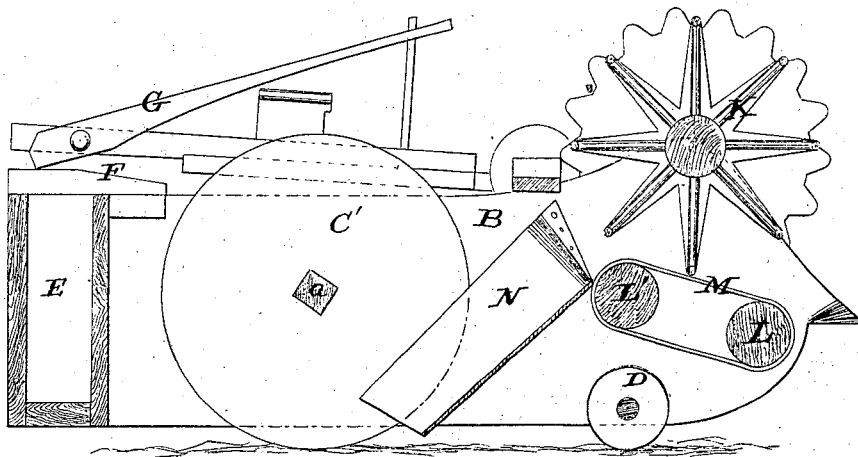


Fig. 3.



Witnesses.

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United States Patent Office.

BENJAMIN M. REEVES, OF FRANKLIN, PENNSYLVANIA.

Letters Patent No. 113,094, dated March 28, 1871; antedated March 16, 1871.

IMPROVEMENT IN MACHINES FOR PULLING FLAX.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, BENJAMIN M. REEVES, of the city of Franklin, in the county of Venango and State of Pennsylvania, have invented a new and valuable Improvement in Flax-Pullers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a plan view of my invention;

Figure 2 is a side view of the flax-puller; and

Figure 3 is a vertical longitudinal section thereof.

My invention has relation to machines for pulling flax; and

It consists in the construction and novel arrangement of devices designed to pull the flax from the ground without injuring the fiber of the plant.

The letter A of the drawing represents the body of the carriage, upon which the driver's seat is arranged.

B designates the frame-work of the flax-puller, arranged usually on the right of the carriage A, and pivoted on the shaft of the wheels.

C C' designate the wheels upon which the machine moves. One of these wheels revolves freely on its spindle at the end of the shaft *a*. The other, C', is keyed on the shaft, which is carried around with it in the rotation thereof.

D represents a smaller wheel, upon which the forward weight of the flax-puller is designed to rest when in operation.

E is a trough or box, attached to the rear of the frame-work B, and serving to contain the pulled flax. It also serves to counterbalance the forward weight of the reel and other attachments when it is necessary to raise the same, as in traveling to or from the field.

F represents a wedge-shaped piece or inclined plane, attached to the rear of the frame B in such a manner that a proper engagement with the cam-lever attached to the driver's carriage may be effected.

G designates the cam-lever, which regulates the inclination of the flax-puller frame B.

H represents an upright rest for the handle of the lever when the same is not in contact with the inclined plane F.

K represents the gathering-reel, made very firm and strong, and designed to press the flax against the forward-bearing roller.

L represents the forward bearing roller, around which the flax is bent by the action of the reel.

L' represents a similar roller in rear of L, near the point of delivery.

M designates an endless apron passing around the rollers L L', and designed to convey the flax to the rear, depositing it upon the ground through the inclined funnel or tapering guide-way N attached to the frame B. The flax may be deposited upon a suitable platform attached to the frame B if thought advisable.

Rigidly secured to the inner end of the reel-shaft is a large spur-wheel, *b*, arranged to engage with the pinions *c c*, secured to the ends of the rollers L L'.

The spur-wheel *b* is provided with a pulley, *d*, which is connected, by the belt *e*, with the driving-pulley *h*, secured to the wheel-shaft *a*.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a flax-pulling machine, the combination of the reel K, rollers L L', and endless apron M, substantially as and for the purpose specified.

2. The flax-pulling machine herein described, having the reel K, rollers L L', endless apron M, tapering guide-way N, pivoted frame B, inclined plane F, and cam-lever G, substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.
BENJAMIN M. REEVES.

Witnesses:

J. M. BROTHERS,
THOS. ELLIS.