

W. S. LAWRENCE.

Hemp-Brakes.

No. 141,569.

Patented August 5, 1873.

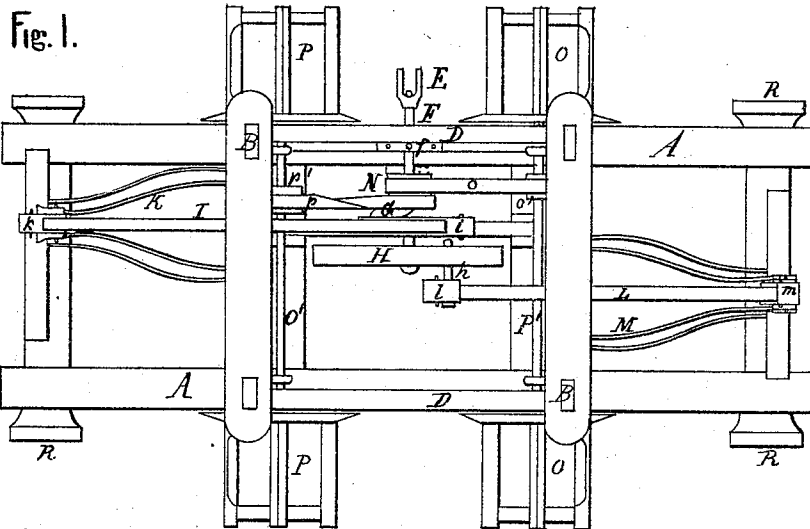


Fig. 2.

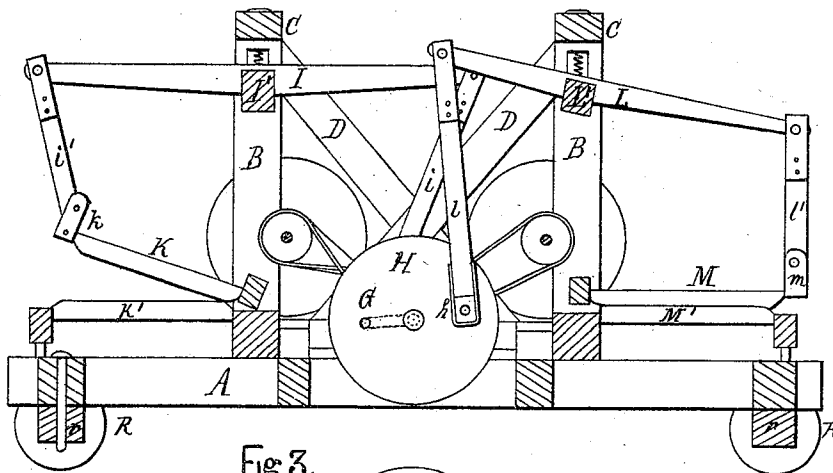
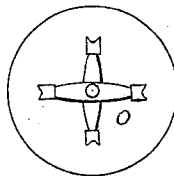


Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

WILLIAM S. LAWRENCE, OF WINCHESTER, KENTUCKY.

IMPROVEMENT IN HEMP-BRAKES.

Specification forming part of Letters Patent No. **141,569**, dated August 5, 1873; application filed April 26, 1873.

To all whom it may concern:

Be it known that I, WM. S. LAWRENCE, of Winchester, in the county of Clarke and State of Kentucky, have invented a new and valuable Improvement in Hemp-Brakes; 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 drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view of my improved hemp-brake. Fig. 2 is a vertical longitudinal section of the same, exhibiting the working parts. Fig. 3 is an end view of a reel forming a part of the brake.

My invention relates to certain improvements on a hemp-braking machine for which I obtained Letters Patent April 9, 1872, No. 125,466, as will be hereinafter more fully described and claimed.

In the drawings, A represents the fundamental part of the frame, to which are attached the uprights B B, connected by horizontal braces C C and diagonal braces D D. Power is transmitted, with the aid of the universal coupling E, to the main shaft F, which is provided with a double crank, G, crank-plate H, and crank-pin h, the double crank and the crank-pin being in diametrically-opposite positions. A pitman, i, connects the double crank G with a walking-beam, I, which is connected, through another pitman, i', with the head k of the brake K. The wrist-pin h is connected, through the pitman l, to the walking-beam L, which extends its connection to the head m of brake M, through the pitman l'. The rock-shafts I' and L' of the walking-beams

I and L have journal-boxes similarly constructed and located as those already patented, with the only difference that I do not confine myself to the use of spiral springs above and below the journal-boxes, since I have found that rubber is quite as effective. The shaft F is provided with a pulley, N, between the bearing f and double crank G, which, by means of the belts o and p and pulleys o' and p', rotates the reels O O and P P on the shafts O' and P'. The whole machine rests on axles r r, which are supported by wheels R R, so it may be drawn to any place desired.

The lower brakes K' and M' are fastened to the frame A in the same manner as they are in my patented machine above mentioned.

The operation of my machine is the same, substantially, as that of my patented machine, the reels being used to wind up the broken hemp, to keep it clean.

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

1. The combination of the double crank G, the pitman i, the walking-beam I, the pitman i', the brake K, the crank-plate H, the wrist-pin h, the pitman l, the walking-beam L, the pitman l', and the brake M, substantially as specified.

2. The reels O O and P P, in combination with the operating mechanism of a hemp-brake, substantially as herein specified, and for the purpose mentioned.

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

WILLIAM S. LAWRENCE.

Witnesses:

JACQUES SAARBACK,
J. L. KEYES.