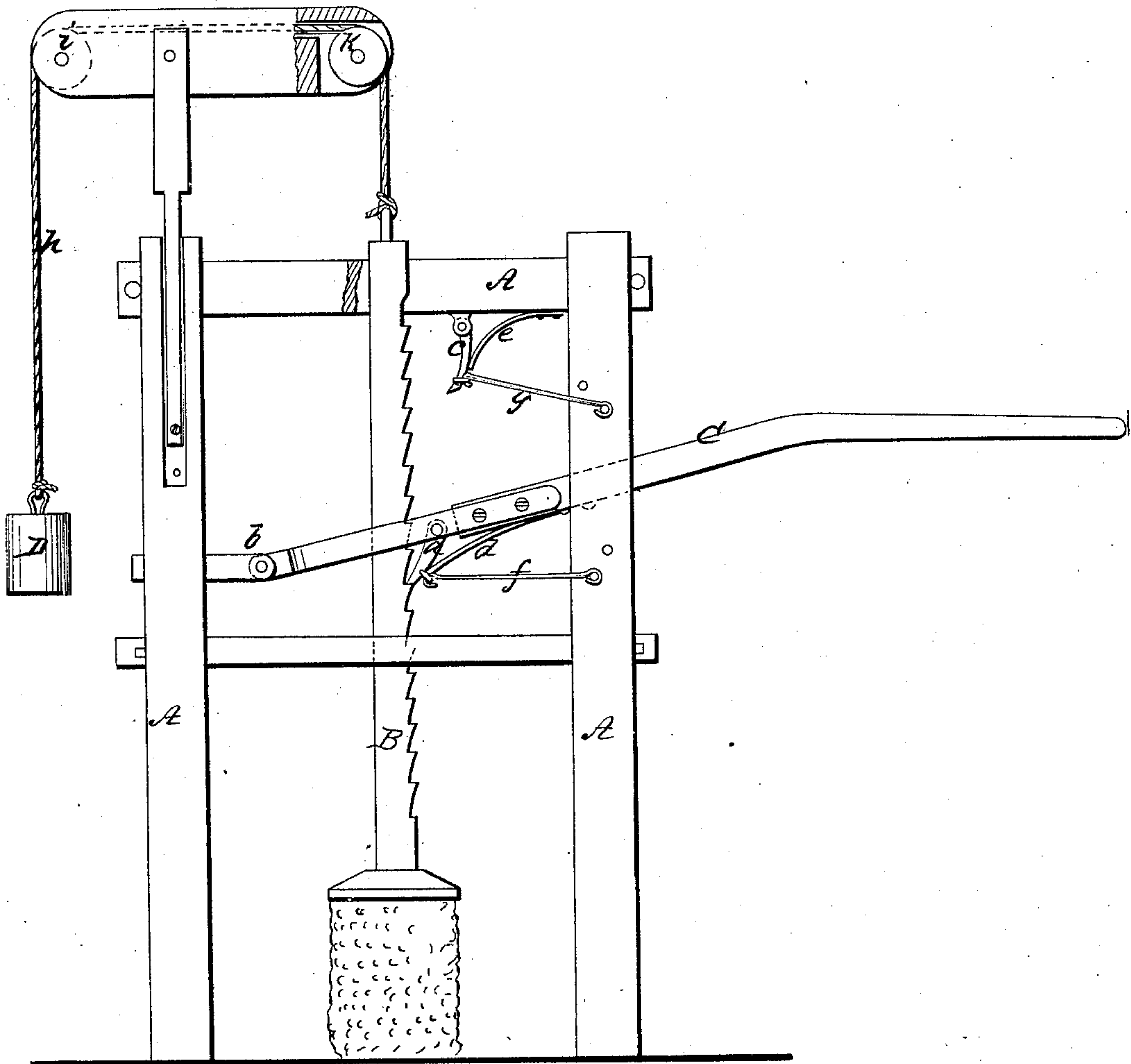


B. S. Norris,

Hay Press.

N^o 78,318.

Patented May 26, 1868.



Witnesses
H. C. Ashkutt
Wm A Morgan

Inventor
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United States Patent Office.

B. S. NORRIS, OF RIPLEY, OHIO.

Letters Patent No. 78,318, dated May 26, 1868.

IMPROVED PRESS.

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, B. S. NORRIS, of Ripley, in the county of Brown, and State of Ohio, have invented a new and useful Improvement in Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The nature of my invention relates to improvements in presses, whereby it is designed to provide a more simple, cheap, and effective press than any now in use.

And it consists in providing, in a suitable frame, a vertical presser, which is worked in a downward direction by a ratchet on the same, and a pawl, on a lever which is worked by hand.

A spring-holding pawl is also provided, for preventing it from sliding backward, and a weight for balancing the same, as will be more fully described on reference to the accompanying drawings, wherein is shown a side elevation of the same, with parts broken away.

A represents a suitable frame, firmly secured to the flooring or to the ground, and provided with two cross-pieces, having mortises at about the centres of the same, through which slides the presser B in a vertical position.

The presser-stem is provided with ratchet-notches on one side.

C represents a hand-lever, which is jointed to one post at *b*, and works through a long slot in the other post, and is provided with a pawl, *a*, to actuate the presser B.

c represents a holding-pawl, which also takes into the ratchet, to prevent it from sliding back when the pawl *a* is raised.

d and *e* are springs, to hold the pawls in action with the ratchet.

f and *g* are links, to hold the pawls away from the ratchet, when it is desired to raise the presser.

D represents a weight, connected to the top end of the presser-stem by a cord, *h*, working over pulleys *i* and *k*, to balance the same, and hold it up when it has been raised.

When it is desired to raise the presser up, the pawls *a* and *c* are held away from contact with the presser-stem by hooking the links on the proper pins on the post; and when it is desired to operate the press, the article to be operated upon being placed under the presser, the pawls are allowed to be forced against the ratchet on the stem of the presser by the springs, when, by power being applied to the end of the lever, so as to move it up and down, the presser will be forced down upon whatever may be under it with great force.

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

The combination, with the frame A, of the presser B, hand-lever C, spring-pawls *a* and *c*, and the weight D, substantially as and for the purpose described.

The above specification of my invention signed by me, this 3d day of March, 1868.

B. S. NORRIS.

Witnesses:

JOHN M'CAGEN,

M. CREEKBAUM.