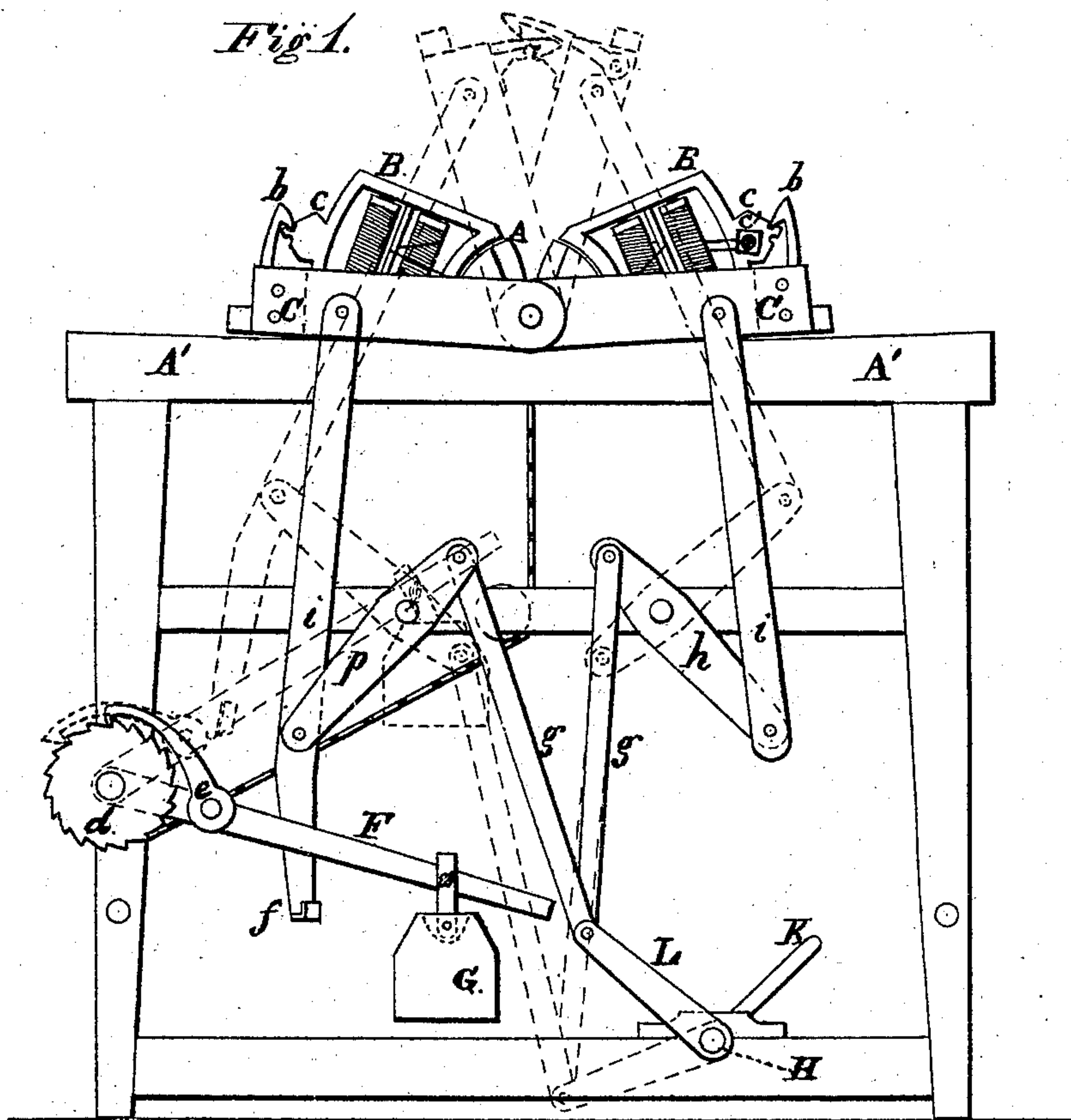


B. R. MURPHY.

Loom for Weaving Blinds, &c.

No. 133,332.

Patented Nov. 26, 1872.



Witnesses.

Charles Myers.
W. Purvis

Inventor.

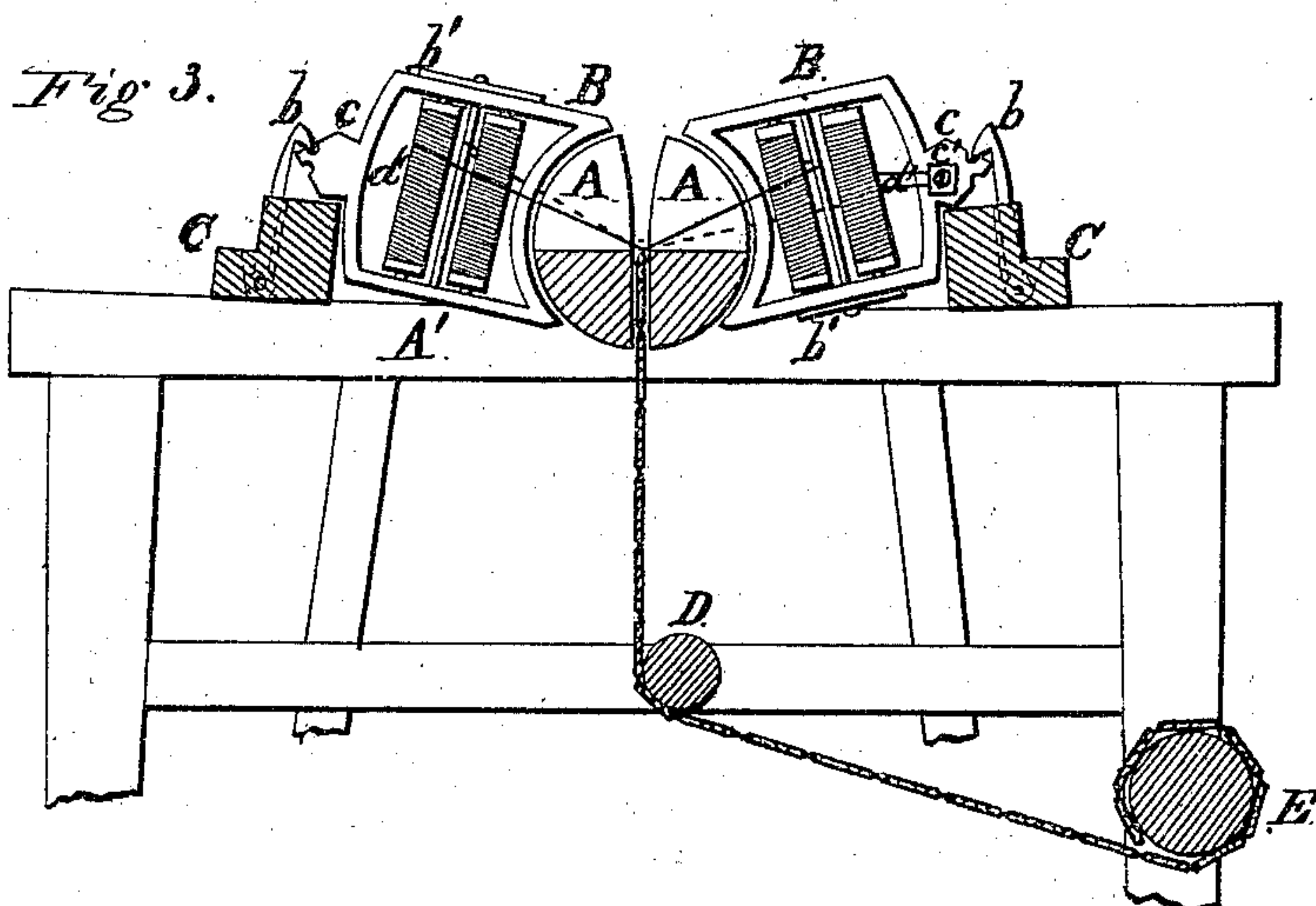
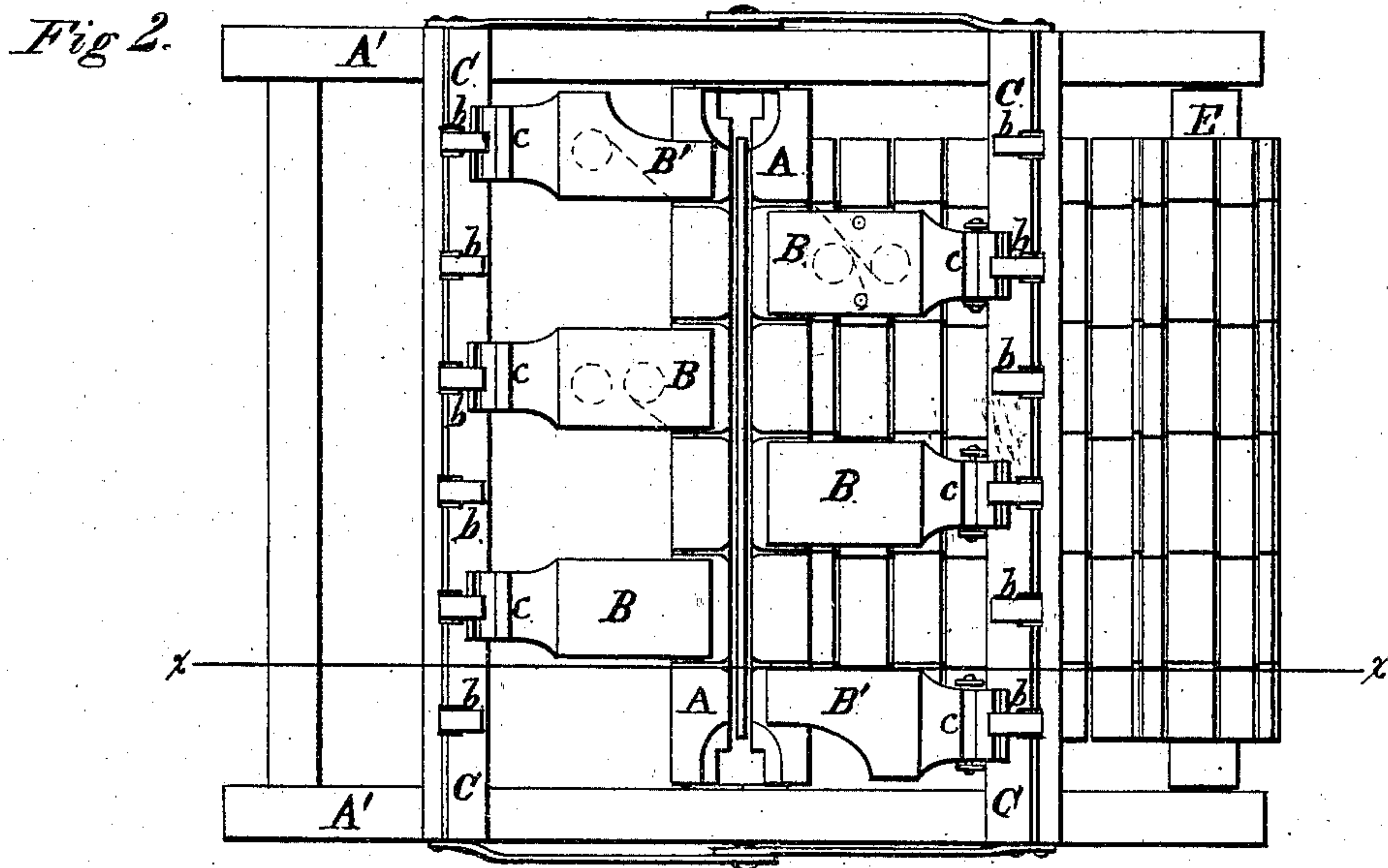
Benj' R. Murphy.
By Attorney.
G. B. Towles.

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Chas. Myers.
W. Burris

Inventor.

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Benj' R. Murphy
By Attorney
G. B. Fowles.

UNITED STATES PATENT OFFICE.

BENJAMIN R. MURPHY, OF PARKERSBURG, WEST VIRGINIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO CHARLES A. WADE, OF SAME PLACE.

IMPROVEMENT IN LOOMS FOR WEAVING BLINDS, &c.

Specification forming part of Letters Patent No. 133,332, dated November 26, 1872.

To all whom it may concern:

Be it known that I, BENJAMIN R. MURPHY, of Parkersburg, in the county of Wood and State of West Virginia, have invented a new and useful Machine for Weaving Blinds and other similar articles; 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 accompanying drawing making a part of this specification, in which—

Figure 1, Sheet 1, is a side elevation; Fig. 2, Sheet 2, is a top view; and Fig. 3, Sheet 2, is a transverse section, as shown at line *xx*.

Like letters in the various figures of the drawing indicate like parts.

Nature of the Invention.

My invention consists of bobbin-holders arranged to oscillate alternately from side to side upon a center beam made with a longitudinal slot to receive the slips, slats, or other filling, and provided with transverse slots to receive the threads of the warp. The inner ends of the holders are made concave to fit the round surface of the center beam, and the outer ends are provided with double shoulders to rest on either side upon the beams of the carriages, and with double notches to receive automatic catches, arranged to automatically fasten and unfasten themselves, so as to alternately change the holders from one side of the beam to the other, thus crossing the threads of the warp over the top of each slip or slat and weaving a complete blind, screen, or web. The carriages are operated by means of a shaft provided with a crank at one end and a pitman at each end attached to pivoted arms connecting with the carriages.

Description.

A is the center beam provided with the longitudinal slot *a* in the middle, and is rigidly attached to the top of the loom-frame A'. B B' are the bobbin-holders. C C are the bobbin-carriages, pivoted to the frame A' opposite the center of beam A. The inner ends of the holders are made concave to fit the round surface of the center beam, and the outer ends are provided with double notches to receive the automatic catches *b b*, and with double shoulders

cc to rest on either side, upon the beams of the carriages, as seen in Figs. 1 and 3. For each holder there are two of the automatic catches *b b*, one on each side of the center beam, attached so as to work up and down loosely upon the beams of the carriages; and the ends of the catches are beveled, as shown in Figs. 1 and 3, so that when the ends of the two rows meet over the beam, as shown in Fig. 1, those at rest will slide under and loosen those fastened to the holders and automatically fasten themselves to the holders, carrying them over by the return of the carriages to the opposite sides of the center beam, drawing the threads of the warp through the transverse slots, and crossing the threads over the top of the slip or slat, and pressing it down to the center of the beam, ready to receive another slat; and as the slats are thus woven together they pass down through the longitudinal slot and under roller D, and are wound up upon the roller E, which is operated by means of the lever L, weight G, ratchet-wheel *d*, and catch *e*, and hook *f*, in combination with a ratchet-wheel and catch, arranged upon the opposite end of the roller. H is a shaft extending through the loom-frame, and has its bearings on the bottom beam of the frame, as seen in Fig. 1. K is a crank attached to one end of the shaft, and L L are pitmen attached at each end of the shaft and connected by pivot-joints to the arms *g h i*, and the upper ends of the arms *i* are pivoted to the ends of the bobbin-carriages. Holders B' carry each only one bobbin, *d'*, while holders B carry each two bobbins, which are made with pivots at each end to revolve in depressions on the inner surfaces of the holders and springs *b'*, by which they are held in place, and they are arranged so that two threads, one from each adjacent holder, will run in the same transverse slot of the center beam. Warp-tensions C' are attached to the holders, as seen in Figs. 1 and 3.

Operation.

To prepare for operation, place an equal number of the holders, with their bobbins properly filled on each side of the center beam, alternately with the catches, so as to have a vacant catch between each pair of holders and a vacant catch and space opposite each holder,

holders B' being at the ends, all as shown in Fig. 2. Draw one thread from each adjacent holder down through each transverse slot, and secure the ends of the threads under the center beam, place in the longitudinal slot *a* a slat, slip, or other filling to be woven; then move the crank forward till the ends of the catches meet and automatically readjust themselves over the top of the center beam, when the crank is moved back, carrying the holder alternately over to opposite sides of the beam, crossing the threads over the top of the slat, as before described.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

1. A machine for weaving blinds, having bobbin-holders arranged to oscillate alternately from side to side upon a center beam made with a longitudinal slot to receive the slip or slat, or other filling, and provided with transverse slots to receive the threads of the warp, substantially as set forth.

2. The combination of the bobbin-holders with the oscillating carriages, provided with automatic catches, or their equivalents, arranged

to automatically fasten and unfasten themselves, so as to alternately change the holders from one side of the beam to the other, substantially as and for the purpose set forth.

3. The bobbin-holders B, provided with springs *b'* and warp-tensions *c'*, and having their inner ends made to fit the round center beam A, and their outer ends with shoulders having notches to receive the automatic catches *b* of the oscillating carriages C, substantially as set forth.

4. The combination and arrangement of levers L, weight G, ratchet-wheels *d*, catches *e*, hook *f*, arms *g h i*, and oscillating carriages C, provided with automatic catches *b*, in connection with bobbin-holders B and rollers D E for winding the blind or screen up, substantially as shown and set forth.

As evidence that I claim the foregoing as my invention I have hereunto set my hand in the presence of two witnesses.

BENJAMIN R. MURPHY.

Witnesses:

WARREN MOREHEAD,
W. I. BOREMAN.