

No. 719,455.

PATENTED FEB. 3, 1903.

W. H. FULLERTON.  
SAWING MACHINE.

APPLICATION FILED MAY 26, 1902.

NO MODEL.

Fig. 1.

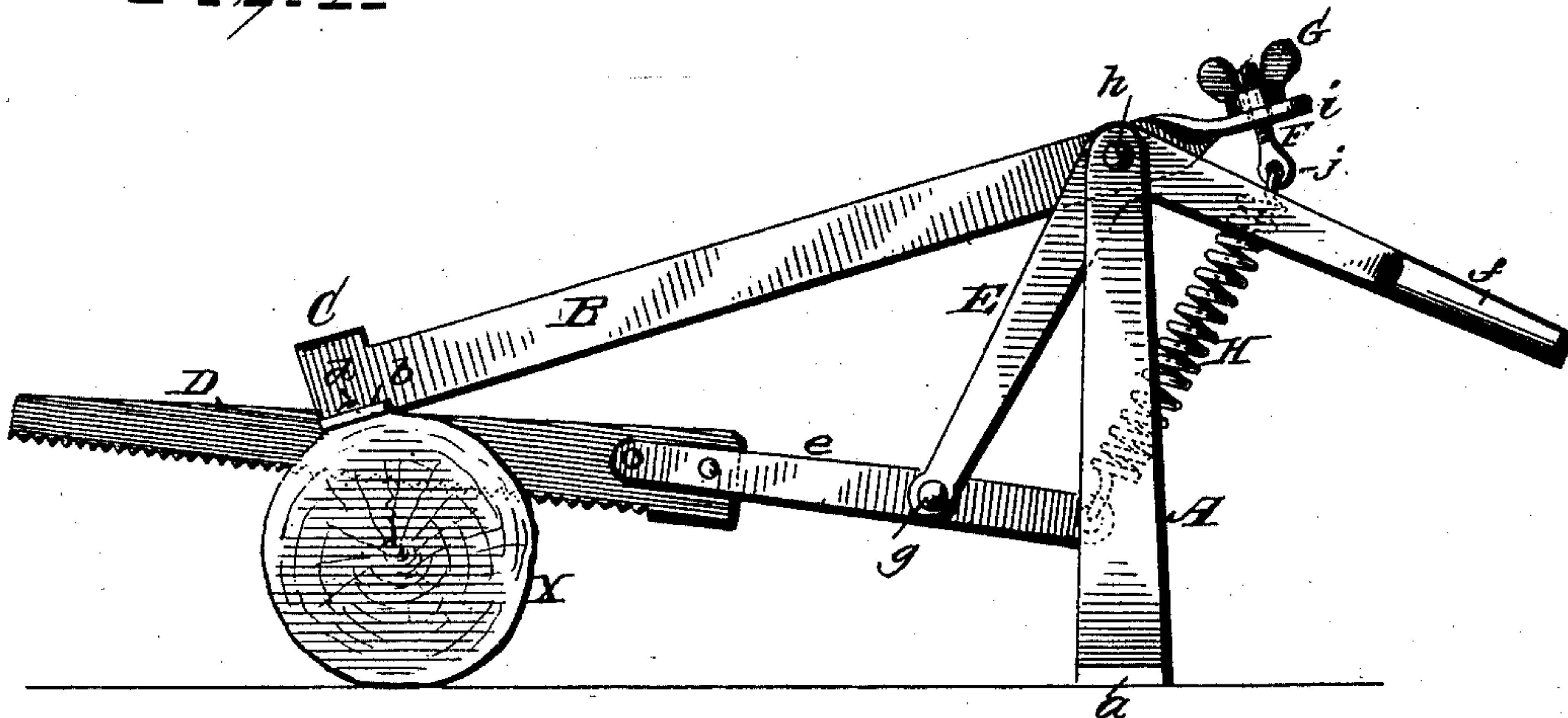


Fig. 2.

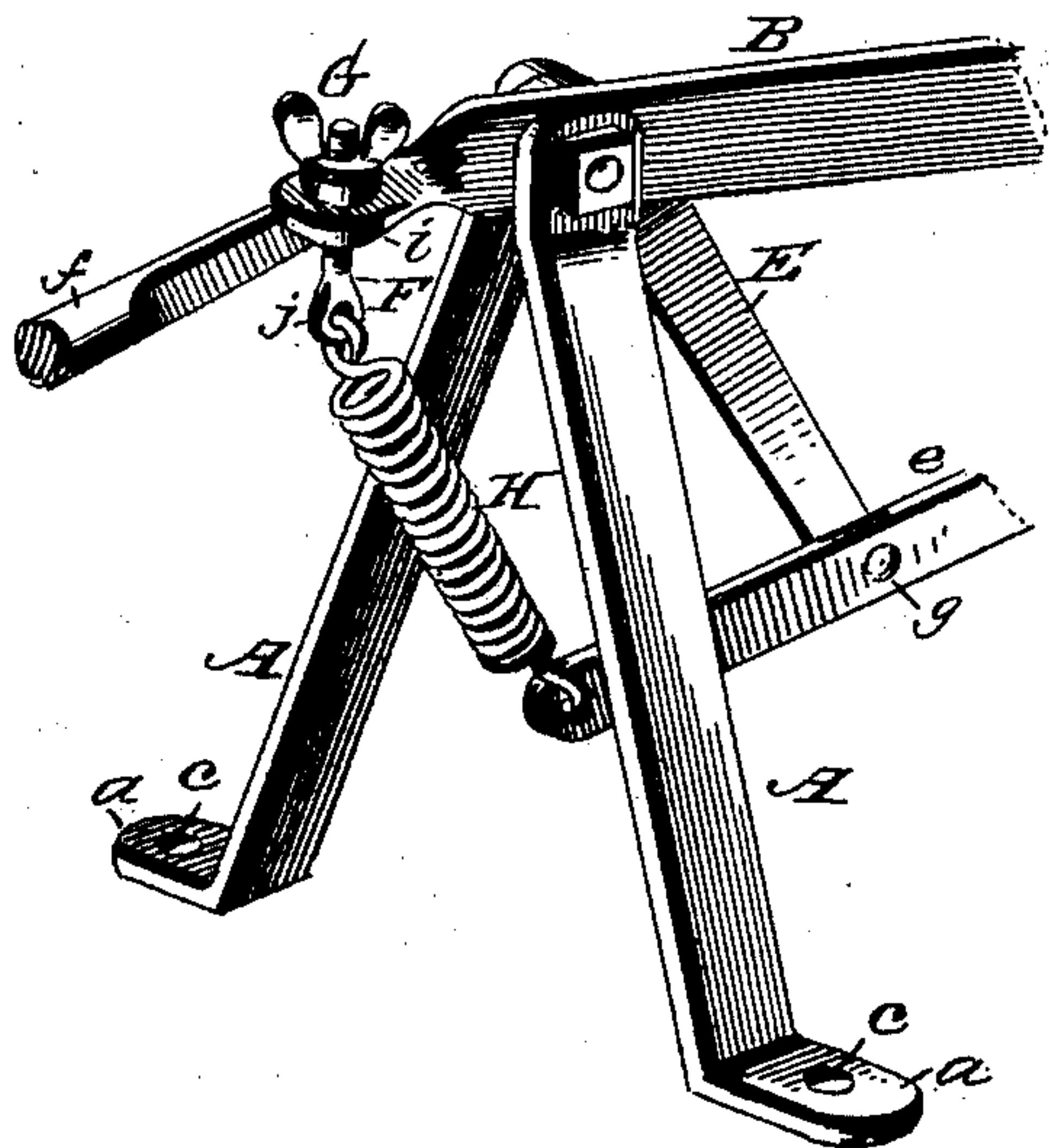


Fig. 3.

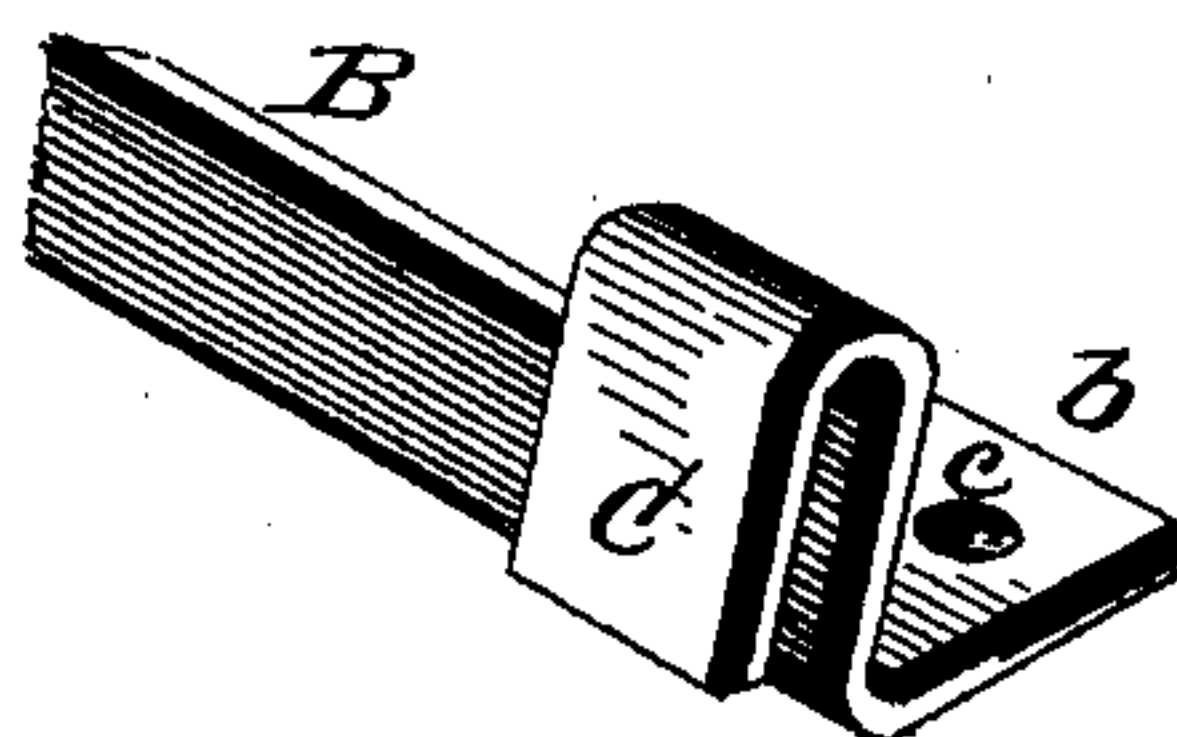
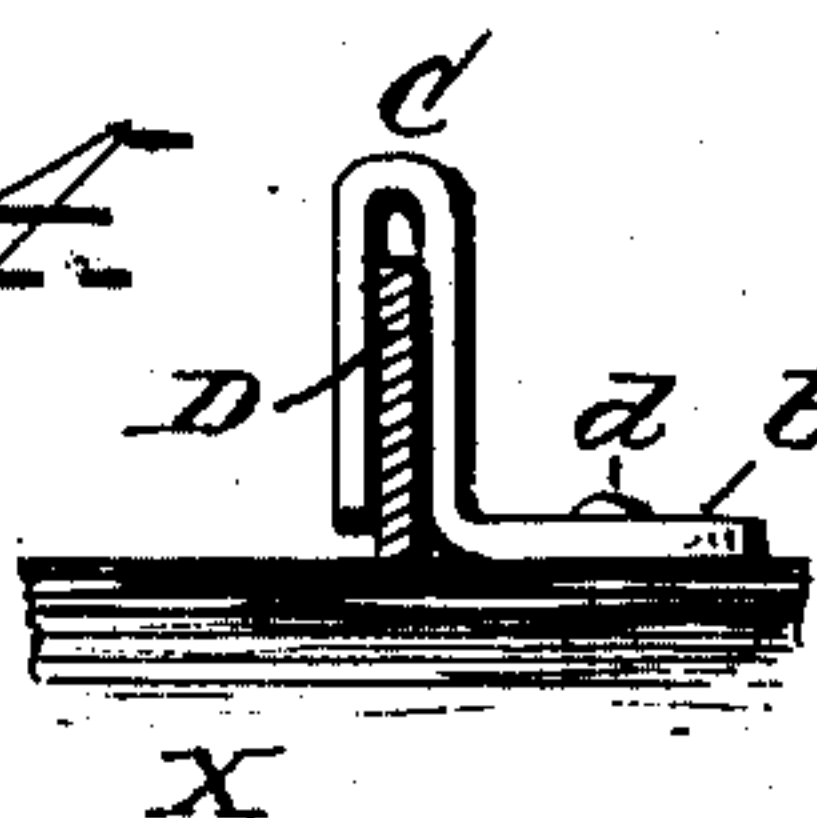


Fig. 4.



Witnesses  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. FULLERTON, OF SCOTT, ARKANSAS.

## SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 719,455, dated February 3, 1903.

Application filed May 26, 1902. Serial No. 108,980. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. FULLERTON, a citizen of the United States, residing at Scott, in the county of Lonoke and State of Arkansas, have invented certain new and useful Improvements in Sawing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has relation to drag-saws or that class of sawing-machines operated by a lever mechanism; and the object thereof is to improve the same in the several details of construction whereby the saw may be easily and effectively operated and the pressure of the saw regulated to adapt it to the various qualities of timber being sawed. The invention consists in a sawing-machine constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a side elevation of a sawing-machine constructed in accordance with my invention, showing the saw-blade in engagement with a log or other piece of timber; Fig. 2, a detail perspective view on an enlarged scale; Fig. 3, a perspective view of the forward end of the brace-bar; Fig. 4, an end view of the guide end of the brace-bar, showing the saw in section and a portion of the log or other timber.

In the accompanying drawings, A represents two standards or supports having feet *a*, by which the standards or supports may be securely fastened to a suitable foundation. These standards or supports may be of any suitable construction and have rigidly connected to their upper ends a brace-bar B of the required length and thickness, the free or forward end of the brace-bar having a suitable guide C for the saw-blade to engage, said guide being integral with the brace-bar and provided with a flange *b*, with hole *c*, by which the same may be secured to a log or other timber, as indicated at X, by means of a nail, screw, or other fastening *d*, or any suitable means may be employed for rigidly connecting the brace-bar to the log or timber to hold the bar stationary during the operation of sawing.

The saw-blade D has connected to its rear end a suitable shank *e*, to which is pivoted one end of a bell-crank lever E, said lever at

the apex of its angle being pivoted to the standards or supports A and is provided with a suitable handle *f* for operating it. The bell-crank lever E is pivoted to the saw-blade at *g* and to the standards or supports at *h*, and by operating this lever a perfect action of the saw-blade is obtained, the bell-crank form of lever adding materially to the effectiveness of the machine.

The brace-bar B at its rear end is bent at right angles to form a bracket *i* to receive a regulating screw-rod F, with which engages a thumb-nut G.

The rod F has an eye *j*, to which is connected one end of a coil-spring H, the opposite end of the spring being suitably connected to the rear end of the shank *e* of the saw-blade. With this means the tension of the spring may be regulated and the pressure on the saw-blade increased or diminished as may be required in sawing different qualities of lumber, thereby materially improving the machine and decreasing the labor of sawing.

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

In a sawing-machine, the combination with the standards, a brace-beam mounted between the upper ends of the standards having on one side of its outer end a U-shaped guide, and a laterally-extended flange on the opposite side of said end, the inner end of the brace-beam being twisted to form a flat bearing for the passage of an eyebolt having a winged adjusting-nut thereon, a saw adapted to have movement between the guide provided on its inner end with an extended shank, a spring having one end hinged to the shank, the other end of the spring being hinged to the eye of the bolt so as to permit of said spring having a reciprocating forward-and-backward movement with the saw-shank between said standards, of the operating bell-crank lever pivotally secured at its bend to said standards and also approximately pivoted at its inner end to the saw-shank and an operating-handle on the outer end of said lever, substantially as specified.

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

WILLIAM H. FULLERTON.

Witnesses:

THOS. J. NEELY,  
CHAUNCEY SCOTT.