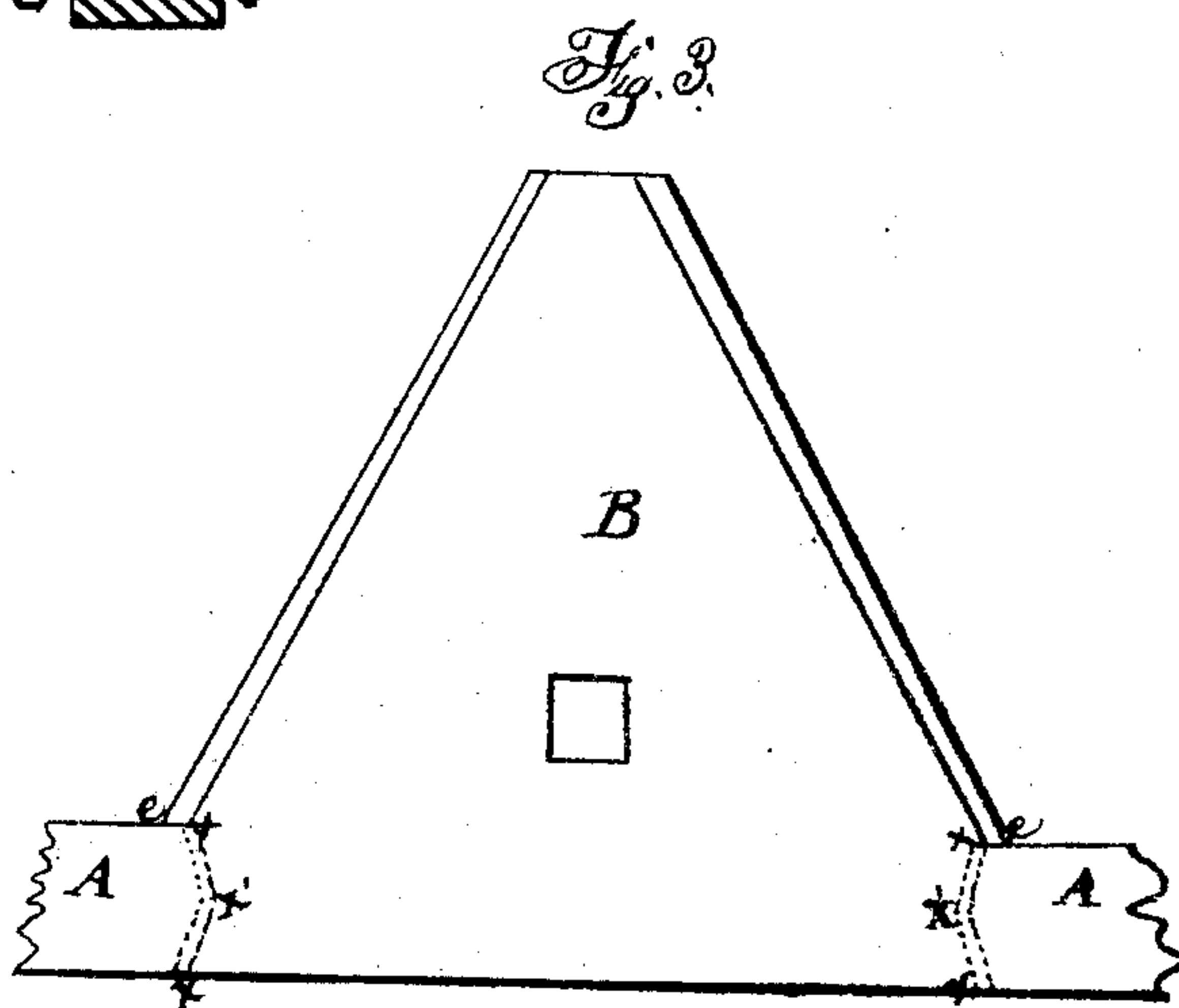
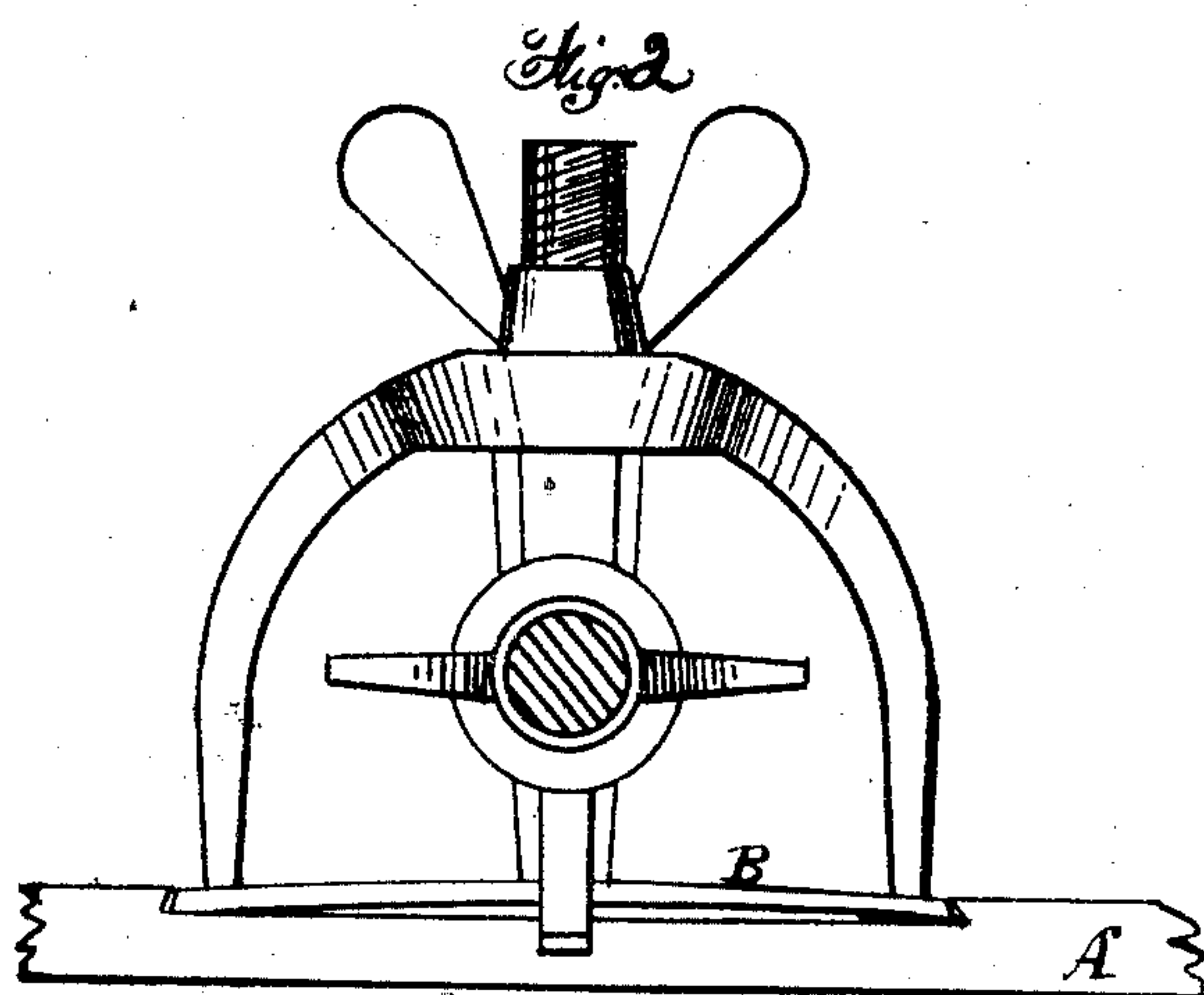
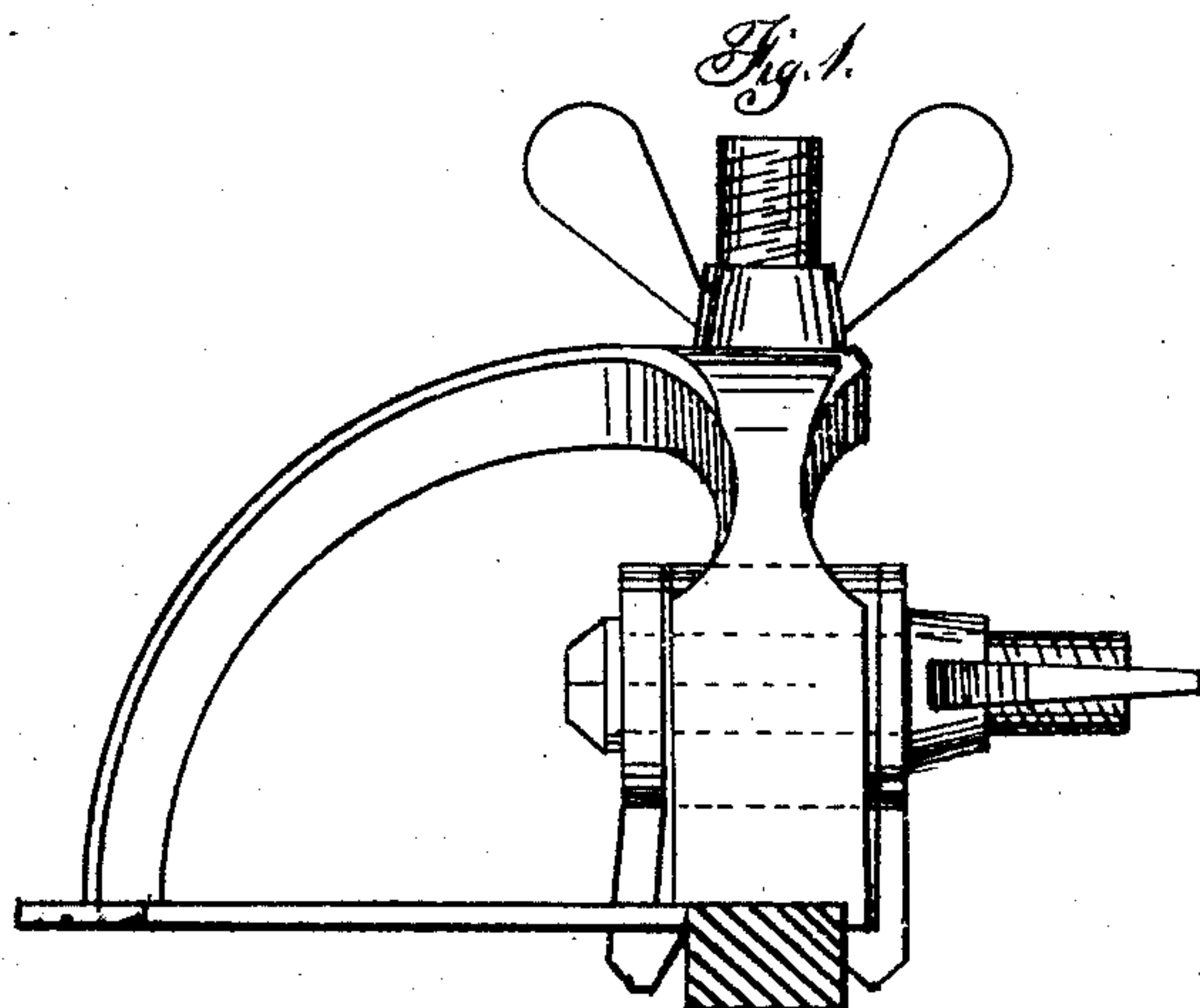


E. M. Allen.
Harvester-Cutter.
N^o 76135 *Patented Mar. 31, 1868.*



Witnesses.
V. D. Stockbridge
C. P. Blue.

Inventor.
Edward M. Allen
per
Alexander Thomson
att.

United States Patent Office.

EDWARD M. ALLEN, OF DARLINGTON, MARYLAND.

Letters Patent No. 76,135, dated March 31, 1868.

IMPROVEMENT IN HARVESTER-CUTTERS.

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, EDWARD M. ALLEN, of Darlington, in the county of Harford, and in the State of Maryland, have invented certain new and useful Improvements in Mode of Attaching the Knives to Cutter-Bars on Harvesters; and do hereby declare that the following is a full, clear, and exact-description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A represents a portion of a cutter-bar of a reaping or mowing-machine, and B represents a knife or cutter which is secured to it.

The invention in this case relates to the mode of securing this knife to the cutter-bar, which is effected as follows: I cut a broad groove crosswise of the bar A, said groove to be equal in depth to the thickness of the knife, and a little shorter than the knife is broad. The groove may be made straight across the bar, or angling, as is seen in Figure 3, from x' to z , but is made dove-tailed or V-shaped. The edge of the sides at the rear end of the knife is made to correspond with the shape of the groove in the bar, being also dove-tailed like the groove. This knife being slightly wider than the groove is long, is inserted in the groove by springing or bending the knife by any suitable instrument until it is sufficiently contracted to enter the groove. The instrument is then removed, so that the knife will straighten and fit tightly within the groove.

I use an instrument, which is here represented, which bears upon the knife at three points upon its upper face, and two upon its lower face, so that it may have its centre at its rear end sprung upward sufficiently to allow its edges to enter the groove.

I do not propose to confine myself to the shape of groove or shape of knife, as a variety of forms will answer the purpose. I may use any kind of instrument for bending or springing the knife which will be suitable.

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

Securing knives to cutter-bars of reapers or mowers, by means of the elasticity of said knives, substantially as and for the purpose set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 30th day of January, 1868.

EDWARD M. ALLEN.

Witnesses:

A. N. MARR,

A. A. YEATMAN.