

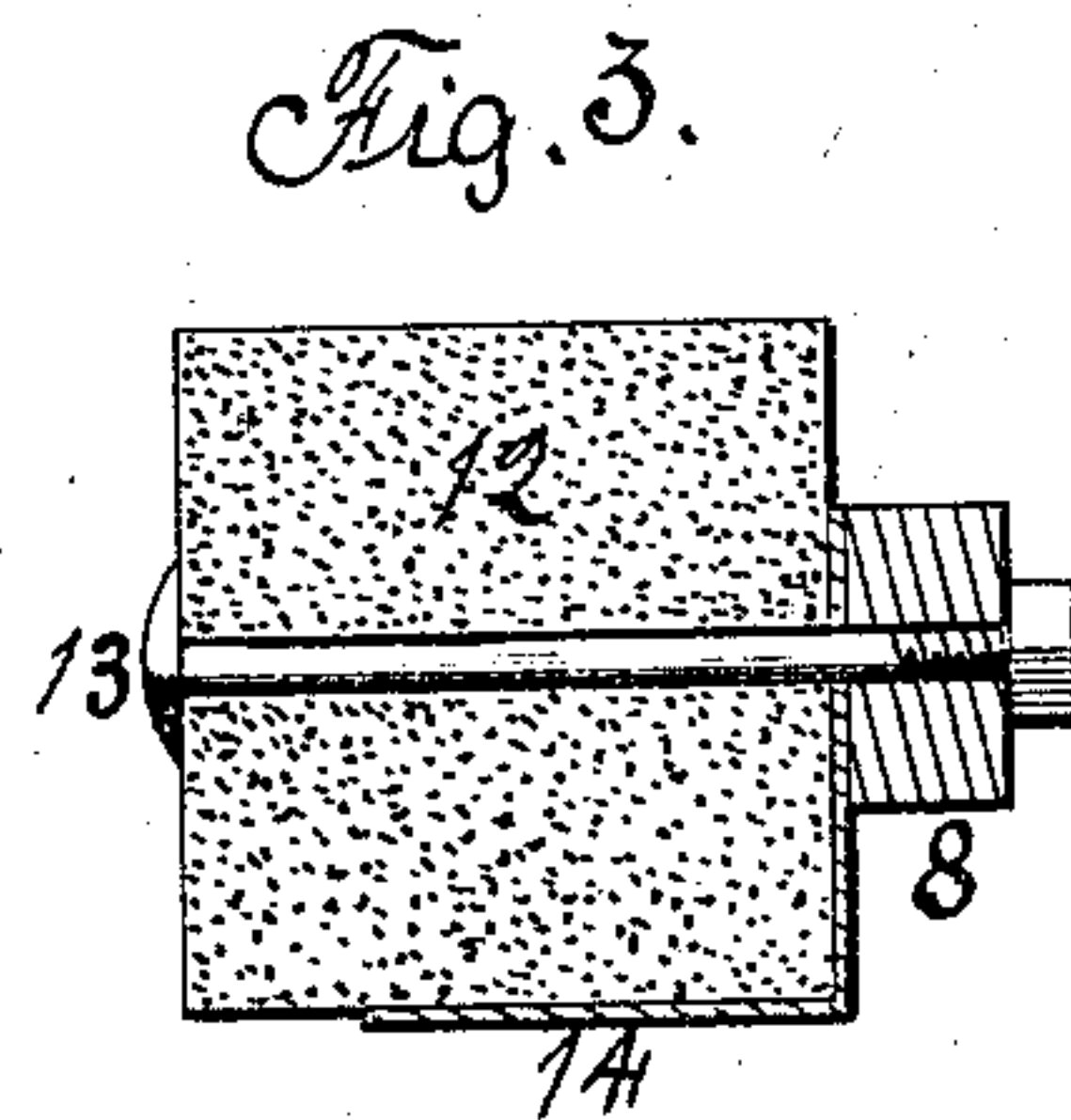
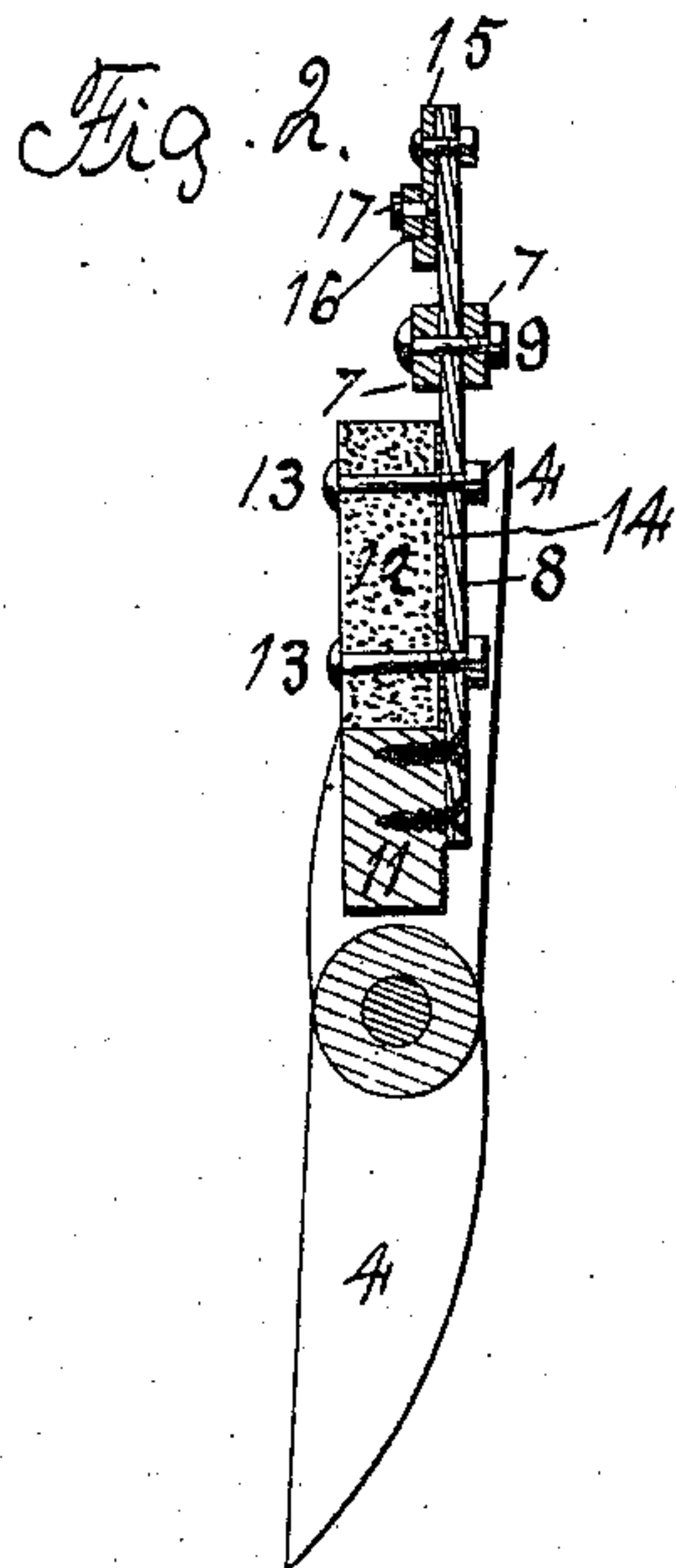
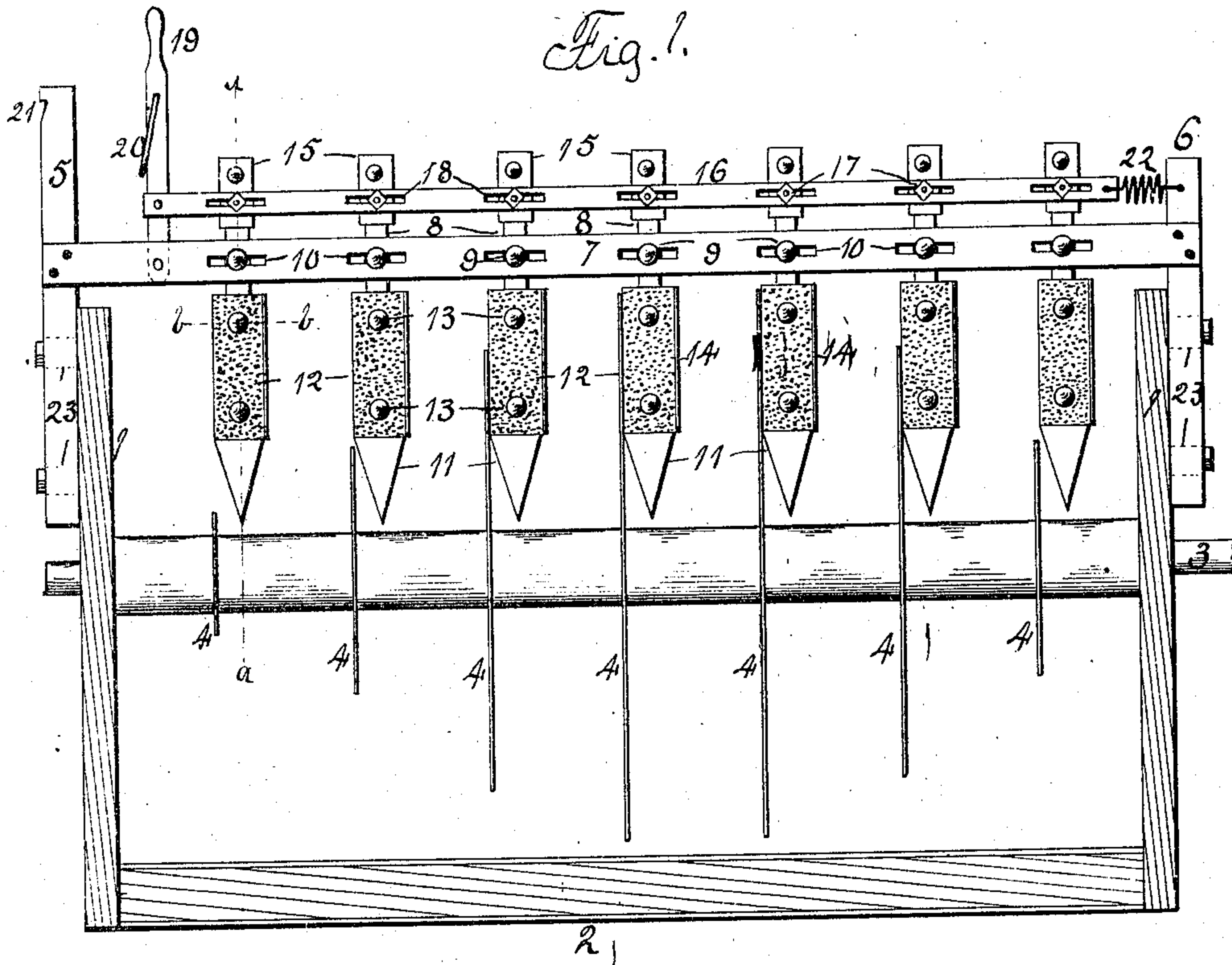
No. 617,318.

Patented Jan. 10, 1899.

J. E. CROWLEY.
SHARPENER FOR KNIVES FOR BAND CUTTERS.

(Application filed July 2, 1898.)

(No Model.)



Witnesses:
J. T. Taylor
E. Behl

Inventor:
Jeremiah E. Crowley
By A. O. Behl
Atty.

UNITED STATES PATENT OFFICE.

JEREMIAH E. CROWLEY, OF OWEN, ILLINOIS.

SHARPENER FOR KNIVES FOR BAND-CUTTERS.

SPECIFICATION forming part of Letters Patent No. 617,318, dated January 10, 1899.

Application filed July 2, 1898. Serial No. 685,023. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH E. CROWLEY, a citizen of the United States, residing at Owen, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Sharpeners for Knives for Band-Cutters, of which the following is a specification.

The object of this invention is to provide means for sharpening the knives of a band-cutter of threshing-machines while the knives are in operation; and it consists of emery-blocks movable into contact with the knives and held in grinding position by spring action.

In the accompanying drawings, Figure 1 is a transverse section of a feeder for threshing-machines. Fig. 2 is a vertical section on dotted line *a*, Fig. 1. Fig. 3 is a transverse section on dotted line *b*, Fig. 1.

The feeder-frame is of the usual construction, consisting of the side bars 1, endless carrier 2, composing the bottom, and a shaft 3, supporting knives 4.

To the side bars of the feeder-frame are secured uprights 5 and 6, and horizontal bars 7 connect the uprights. Between the horizontal bars are located a series of standards 8, having a pivotal connection therewith upon the bolts 9 and adjustable in the lengthwise direction of the horizontal bars by the slots 10. To the lower end of these standards are secured wooden blocks 11, having their lower ends pointed. These standards support emery-blocks 12 by the bolts 13, and a shield 14, protecting one corner of the blocks, is held in position by the same bolts. To the upper end of the standards are pivoted brackets 15, which support a bar 16 by the bolts 17, passing through slots 18 in the bars. A hand-lever 19 has a pivotal connection with the horizontal bars 7, and also with the bar 16. A link 20 is supported by the hand-lever, adapted to pass over the upright 5 and engage the notch 21. A coiled spring 22 forms a connection between the bar 16 and the upright 6.

The emery-blocks are so located with relation to the knives that when the parts are in the position shown at Fig. 1 the action of the spring will hold the emery-block against the knives, and when the knives are revolved they will pass in contact with the emery-blocks, which will impart a cutting edge to the knives. The frame supporting the emery-blocks forms a part of the feeder-frame, and by means of the slots 23 in the uprights it can be adjusted to bring the knives the proper distance above the knife-driving shaft 3, and by means of the slots 10 and 18 each emery-block can be adjusted so that its face can be brought in contact with the knife, and when the link 20 engages the upright 5 the emery-blocks will be held free of the knives against the action of the spring 22. After one face of the emery-blocks has been worn the block may be reversed, thereby presenting a new face, and the shield 14 serves to assist the bolts in holding the emery-blocks in working position.

I claim as my invention—

1. In a band-cutter for threshing-machines, the combination of a rotatable shaft, a series of cutters secured thereto, a support located over the cutters, blocks of grinding material pivotally connected to the support, a bar connecting the upper ends of the blocks and a handle for moving the bar.

2. In a band-cutter for threshing-machines, the combination of a rotatable shaft, a series of cutters secured thereto, a support located over the cutters, blocks of grinding material pivotally connected to the support, a bar connecting the upper ends of the supports and a handle for moving the bar, the blocks being capable of adjustment in connection with the support and bar.

JEREMIAH E. CROWLEY.

Witnesses:

E. BEHEL,
A. O. BEHEL.