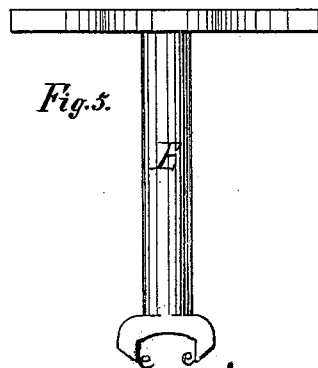
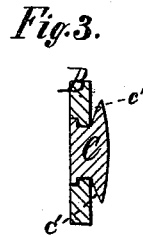
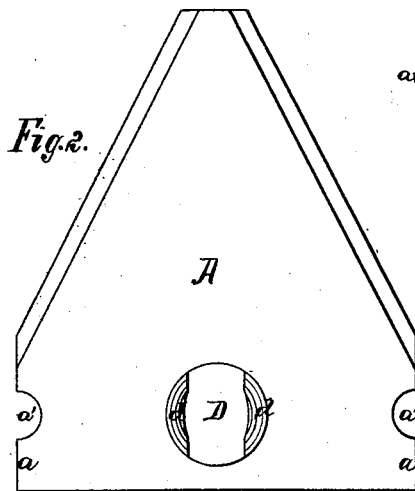
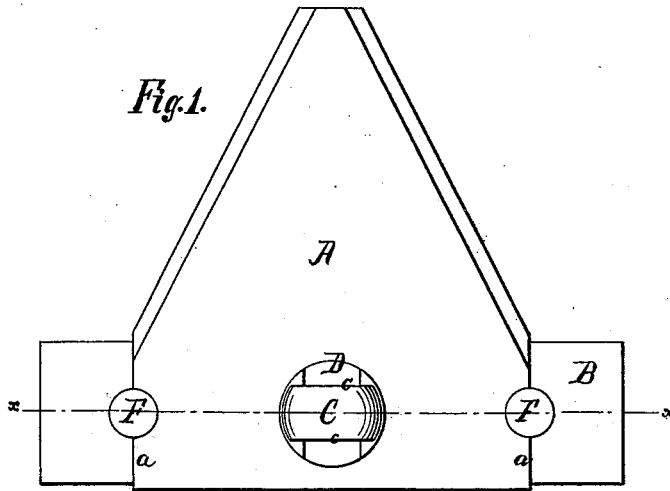


A. J. BIGELOW.  
Harvester-Cutter.

No. 200,021.

Patented Feb. 5, 1878.



Witnesses:

*Theodore Foster.*

*R. S. Black.*

Inventor

*Allen J. Bigelow*

Per: *Wm. H. Fitch*

Attys.

# UNITED STATES PATENT OFFICE.

ALLEN J. BIGELOW, OF ROSSIE, NEW YORK.

## IMPROVEMENT IN HARVESTER-CUTTERS.

Specification forming part of Letters Patent No. **200,021**, dated February 5, 1878; application filed August 25, 1876.

*To all whom it may concern:*

Be it known that I, ALLEN J. BIGELOW, of Rossie, St. Lawrence county, in the State of New York, have invented an improved device for fastening the sections or knives of mowing-machines to the cutter-bar; of which the following is a full, clear, and accurate description, reference being had to the accompanying drawing, forming part of this specification.

My invention relates to a device for detachably securing the sections or knives of a mowing-machine to the cutter-bar thereof; and it consists in a pivot-button arranged in the bar to pass through a slotted opening, having a beveled rim formed in the rear edge of the section or knife, and to be turned in said opening by means of a suitable key, so that the edges of the button will close upon and over the beveled edges of the opening, together with notches formed one upon either edge, at the sides of the section or knife, and adapted to fit upon studs set in the bar, respectively one between each of the sections, as hereinafter particularly set forth, whereby the sections or knives may be readily and quickly and firmly attached to the bar, and may be conveniently, without the aid of a skilled workman or smith, removed from the said bar and replaced, as may be desired.

Figure 1 is a plan of a portion of a cutter-bar and section or knife, showing the arrangement of my invention. Fig. 2 is a similar view of the section or knife detached, showing the slot and notches. Fig. 3 is a cross-section of the bar through the button. Fig. 4 is a longitudinal section on the line *x x*, Fig. 1; and Fig. 5 shows the key or wrench employed in locking the button.

A is the section or knife. B is the cutter-bar. In the bar B is pivoted the button C, preferably so arranged in the bar as to be located centrally under the section or knife in the space occupied by it on the bar, as shown. This button is formed with the straight or flat sides *e*, and has its under face, at its curved ends, beveled upward, as shown at *c'*.

In the section or knife is formed the opening or slot D, adapted to receive and permit the passage through it of the button C when

the button is adjusted properly on its pivot for this purpose. The said slot is formed with the downwardly-beveled lips or edges *d*, one upon either side of the rim of the slot, as shown. By means of this button and slot, the button being passed through the slot, and then, by means of the key or wrench E, (shown in Fig. 5,) turned in the slot until the beveled ends *c'* of the button are brought over and upon the reversely-beveled lips *d* of the slot, the section or knife is attached to the bar.

To prevent the section or knife from having any side motion on the bar when thus fastened, or to turn upon the button, the studs F are set in the bar intermediately between each section or knife, at the edges *a* thereof, and notches *a'* are formed in the said edges of the section or knife, which fit upon and conform to the said studs when the knife is adjusted upon the bar.

I prefer to thus arrange the studs, as a single stud thus serves to brace the ends of two adjacent knives or sections.

I prefer also to form the knives or sections with the curve or arch shown in Fig. 6 from one edge *a* to the other, so that, when they are placed upon the bar and the slot D is passed over and upon the button C, the ends *a* of the knife will be brought somewhat away from the studs F, and thus permit the notches *a'* to slip readily into position upon the said studs. In detaching the knives or sections it is also preferable, as upon releasing the lips *d* from the button the knives will spring upward somewhat in the center, and, while withdrawing by this action the notches *a'* from the studs, will also prevent the binding of the edges *a* of one section against the adjacent edges of the next sections.

In securing the sections upon the bar, when they are thus arched, the beveled faces *e* of the key or wrench fit upon and press against the lips *d* of the slot in the section, when said key is made to grasp the button C, and by such pressure the knives are flattened, so as to permit the ends *c'* of the button to pass over and upon the said lips *d*, while the ends *a* of the knives are forced outward, and the notches *a'* are brought snugly in contact with the studs F, and the sections are thus securely

attached to the bar, and prevented from rattling or shaking loose.

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

The combination of the knife A, having slot D, with beveled lips *d d*, with the bar B, provided with pivot-button C, having straight

sides *cc* and beveled ends *c' c'*, all constructed substantially as set forth.

ALLEN J. BIGELOW.

Witnesses :

G. S. CONGER,

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