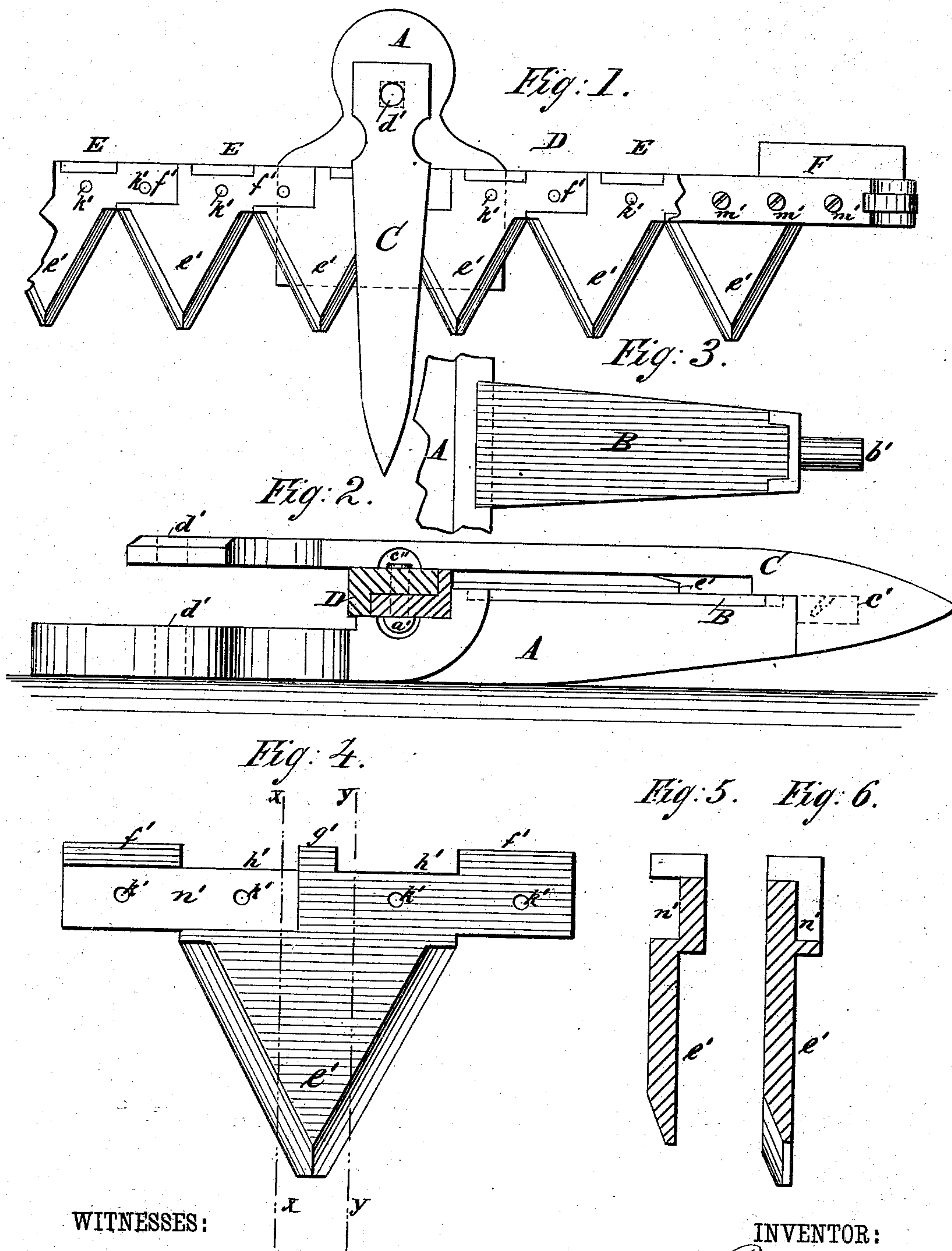


(Model.)

P. DEEVY.
Guard Finger and Sickle Bar.

No. 235,855.

Patented Dec. 28, 1880.



WITNESSES:

Achilles Schehl.
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UNITED STATES PATENT OFFICE.

PATRICK DEEVY, OF MELROSE, IOWA.

GUARD-FINGER AND SICKLE-BAR.

SPECIFICATION forming part of Letters Patent No. 235,855, dated December 28, 1880.

Application filed April 30, 1880. (Model.)

To all whom it may concern:

Be it known that I, PATRICK DEEVY, of Melrose, in the county of Monroe and State of Iowa, have invented a new and Improved Finger and Sickle Bar, of which the following is a specification.

Figure 1 represents a plan of the device. Fig. 2 is an enlarged side elevation of the finger. Fig. 3 is a section of the finger, giving a plan view of the removable knife therein. Fig. 4 is a plan of a sickle. Fig. 5 is a sectional elevation on line *x x*, Fig. 4. Fig. 6 is a sectional elevation on line *y y*, Fig. 4.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide for mowing and reaping machines a sickle-bar made in sections, that may be readily and firmly fitted together, in which each section is provided with a sickle or cutter, and a finger or guard constructed in sections, and having a removable knife or blade that can readily be removed for sharpening, and replaced securely without the aid of screw or bolt.

The invention consists of a sectional sickle-bar, each section of which carries a sickle or cutter as a part of it, and is tongued and grooved, so that they may be readily fitted to and upon each other and be interchangeable, and when fastened together by screws form a rigid and complete cutting-bar; and it consists, further, of a finger or guard made in two parts that are mortised and tenoned together at one end, and in the under part or section is a mortise in which is fixed a cutting-blade that can be readily removed to be sharpened.

In the drawings, A represents the under side of the finger, in which the sickle-bar moves transversely. *a'* is a groove extending transversely in it, to permit the free passage of the heads of the rivets, screws, or bolts that hold together the sections of the sickle-bar.

B is a flat cutting-blade with beveled edges mortised into a depression in A, and held there by the mortising and by the pressure of the sickle-bar when in operation.

b' is a pin projecting from the outer end of

the under section of the finger, and made to enter a socket, *c'*, in the end of the upper section, C, of the finger, which is also provided with a groove, *c''*, whose purpose is like that of groove *a'*. By the entrance of this pin into the socket and a bolt passing through the holes *d'* the parts of the finger are held together and to the finger-bar.

The sickle-bar D is formed by the toothed sections E, each section consisting of a tooth or sickle, *e'*, projecting from a longitudinal bar, *f'*, each bar being of full thickness at its center *g'*, and being grooved or mortised, as at *n'*, for nearly half its length on opposite and reverse sides, and being also mortised, as at *h'*, on its lower edge. The sections E, as many of them as are desirable, are fitted together to form the sickle-bar, the extreme end of the bar, of course, terminating with a section to which no other can be attached, and firmly secured by bolts, rivets, or screws passing through the holes *h'*. That end of the sickle-bar that is nearest the machine is so fashioned as to fit into a mortise in the hinge or strap F, to which the bar is further secured by the screws *m'*, by which the device is attached to the reaper or mower.

The shape of the hinge may be made to suit any mower or reaper, and the sickle-bar be made of any desired length.

Having a few extra sections on hand the farmer can repair his own sickle without sending it to the shop or factory, and thus save time and money.

The bars and sickles are made of steel, strong and light, and not likely to get out of shape.

The steel knife or cutting-blade B in the finger can be readily removed for sharpening, and as easily replaced without using bolts or screws.

I am aware that adjustable and removable teeth or sickles are not new; but,

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

1. The guard or finger composed of two parts, A and C, and provided with movable

cutting-blade B, pin *b'*, socket *c'*, grooves *a'* and *e''*, and bolt-holes *d'*, constructed and arranged substantially as herein shown and described.

- 5 2. In a mowing and reaping machine, and in combination therewith, the sickle-bar D, composed of toothed sections E, having sickles *e'* and bars *f'*, each section being grooved or mortised, as herein shown and described, that

it may fit in and upon another, substantially as and for the purpose described. 10

PATRICK DEEVY.

Witnesses:

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DAVID CLARK.