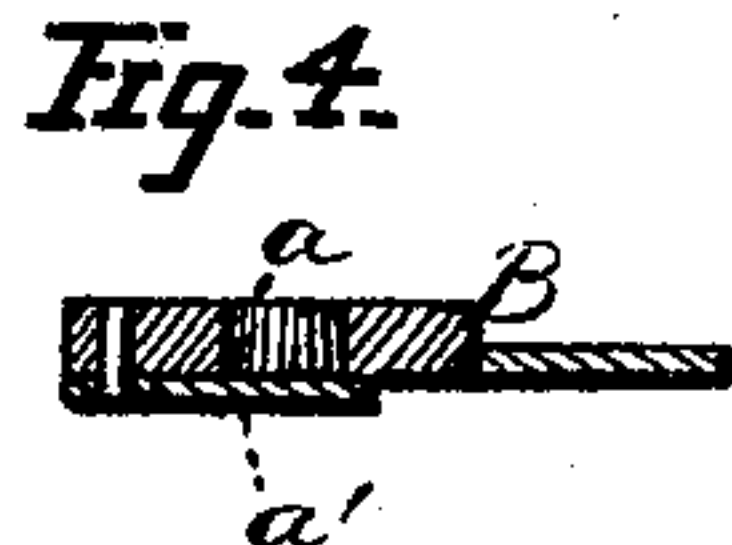
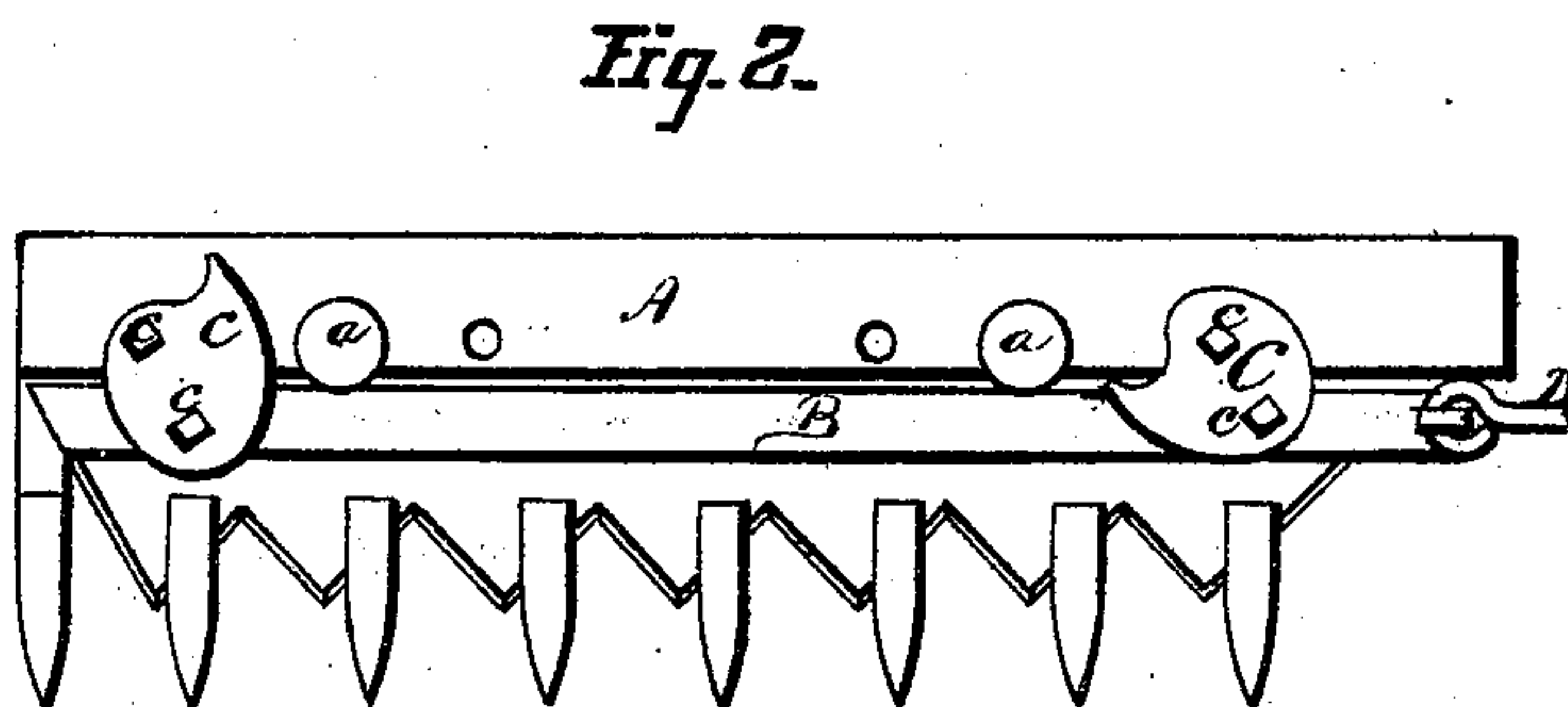
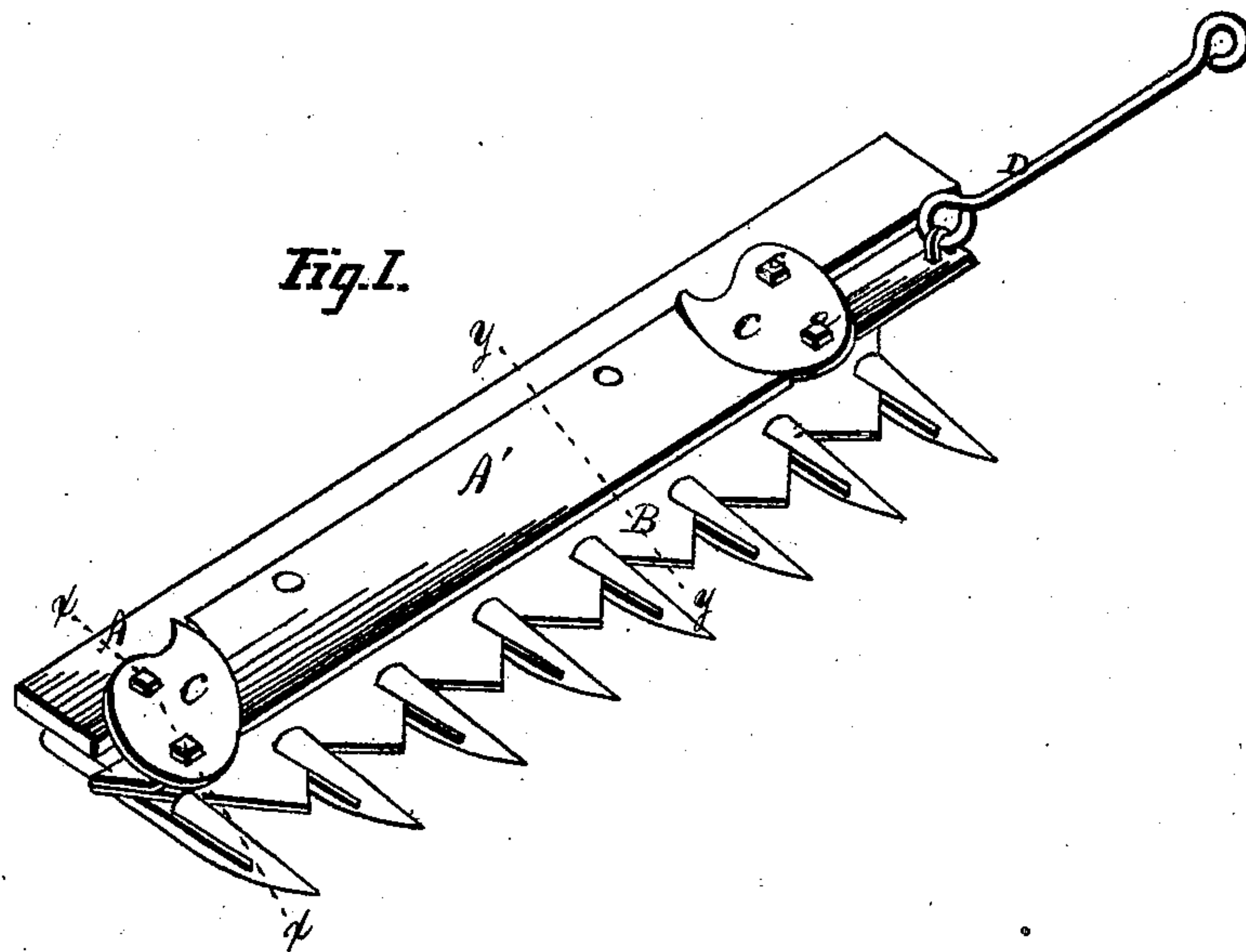


J. W. H. DOUBLER.
Harvester-Cutters.

No. 141,210.

Patented July 29, 1873.



Witnesses
Jas. C. Hutchinson
Wm. M. Lynch

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UNITED STATES PATENT OFFICE.

JOHN W. H. DOUBLER, OF WEST ALDEN, NEW YORK.

IMPROVEMENT IN HARVESTER-CUTTERS.

Specification forming part of Letters Patent No. **141,210**, dated July 29, 1873; application filed January 13, 1873.

To all whom it may concern:

Be it known that I, JOHN W. H. DOUBLER, residing in West Alden, in the county of Erie and State of New York, have invented a new and useful Improvement in Harvesters, of which the following is a specification:

This invention relates to improvements in harvesters; and consists, first, of cushions seated in a finger-bar in rear of the cutter-bar; second, of the combination and arrangement, with the cutter and finger bars, of cams, which connect them together, cushions, and a plate or stop, as hereinafter more fully described and claimed.

In the accompanying drawing, Figure 1 represents a perspective view of the ordinary finger-bar and cutter-bar of a harvester with an embodiment of my improvement, the cushions or rubber disks being obscured from view. Fig. 2 is a plan view of the same with the plate covering the cushions, and against the ends of which the tail of one of the seat-cams and the periphery of the other alternately strike as the cutter-bar is operated, removed, exhibiting the said cushions. Fig. 3 is a transverse section through the dotted line *xx* of Fig. 1, and Fig. 4 is a similar view through the dotted line *yy* of the same figure.

Corresponding parts in the several figures are designated by like letters.

A refers to the finger-bar, with fingers of the usual construction, and B to the cutter-bar. Cut in the inner longitudinal edge of the finger-bar A, at points in juxtaposition with its ends, are concavities or recesses to receive the confined portions of the disks or cushions *a a*, made of rubber or other elastic material, and which act as cushions for the cutter-bar B. These cushions are clamped or confined in place by lugs *a'* and the plate *A'*, which are themselves bolted or otherwise suitably fastened to the cross-head A. These cushions, against which the rear edge of the cutter-bar strikes when operated, overcome the concussions incident to the vibratory

movement of the said bar, and also impels it, upon its return movement, with an additional speed, thereby assisting the machine in its operation. C C refer to cams which are fitted loosely upon bolts *c c* entering the finger-bar A and the cutter-bar B, and by which the cutter-bar is so seated that it shall have a motion like that given to the ordinary hand sickle or scythe, a sweeping motion, which will enable the cutter-bar to perform its work to a greater advantage than by that heretofore given it. The cams C C are of such construction and so connected to the cutter and finger bars as that, at the end of each throw or stroke of the cutter-bar, their tails will alternately bind against the ends of the plate or stop *A'*, and thus bring the cutter-bar to rest at some point slightly distant from the upper front edge of the finger-bar to prevent the rubber cushions *a a*, interposed between said bars, being compressed too much, or the cutter-bar coming in contact with the finger-bar. D refers to the pitman connected to the cutter-bar, and which is designed to communicate motion from the driving mechanism of the machine to the said cutter-bar.

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

1. The combination of the cutter-bar B with the cushions *a a*, arranged in rear of the said bar and seated in the finger-bar A, as shown and described, substantially as and for the purpose set forth.

2. The combination and arrangement of the cams C C, plate *A'*, cutter-bar B, cushions *a a*, and finger-bar A, substantially as shown and described, and for the purpose set forth.

In testimony whereof I have hereunto signed my name this 28th day of December, 1872, in presence of subscribing witnesses.

JOHN W. H. DOUBLER.

Witnesses:

JOHN B. PRIDE,
JANE L. PRIDE.