

W. J. Oker.
Harvester Cutter.

No 103 361.

Patented May 24 1870

Fig. 1

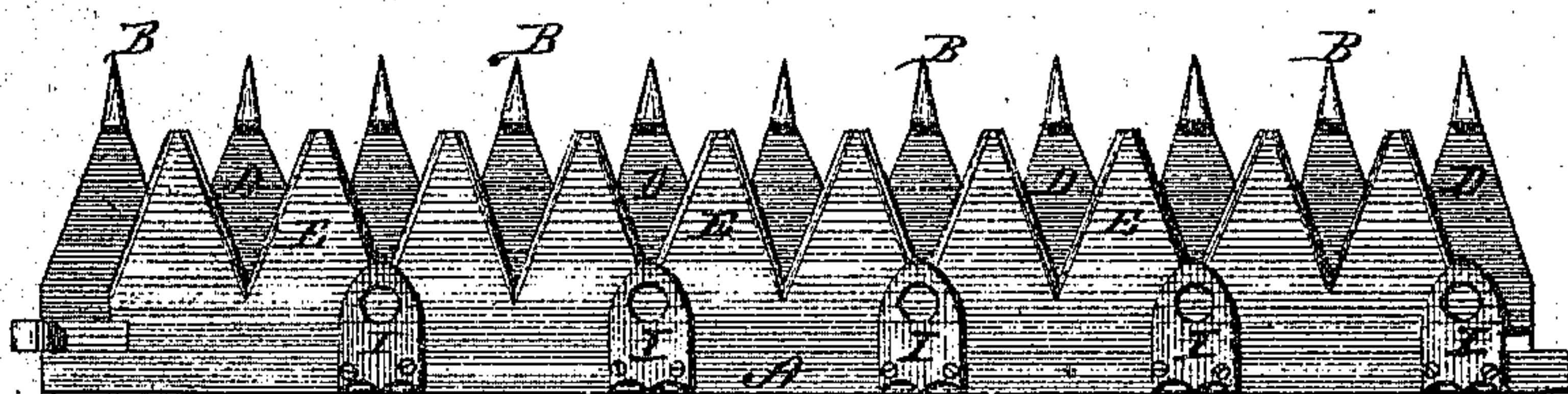


Fig. 2

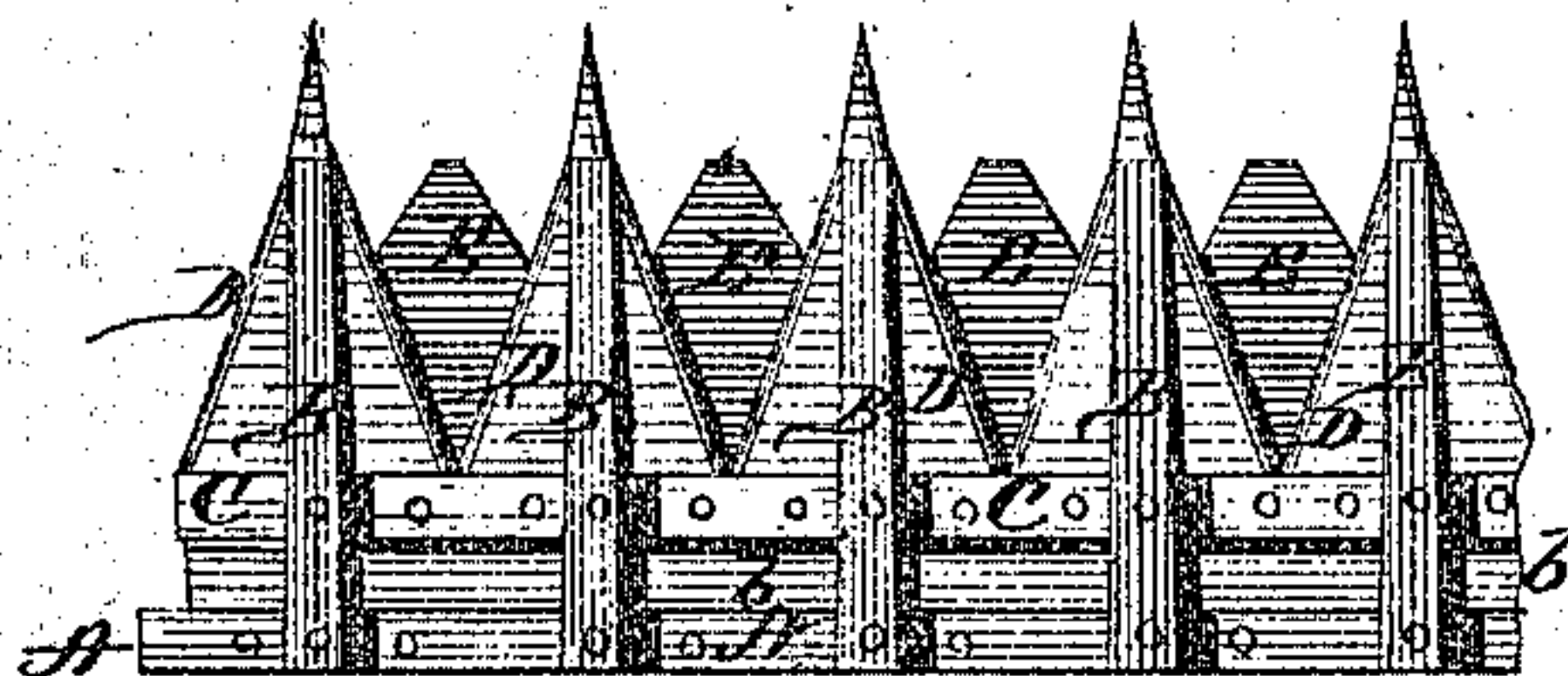
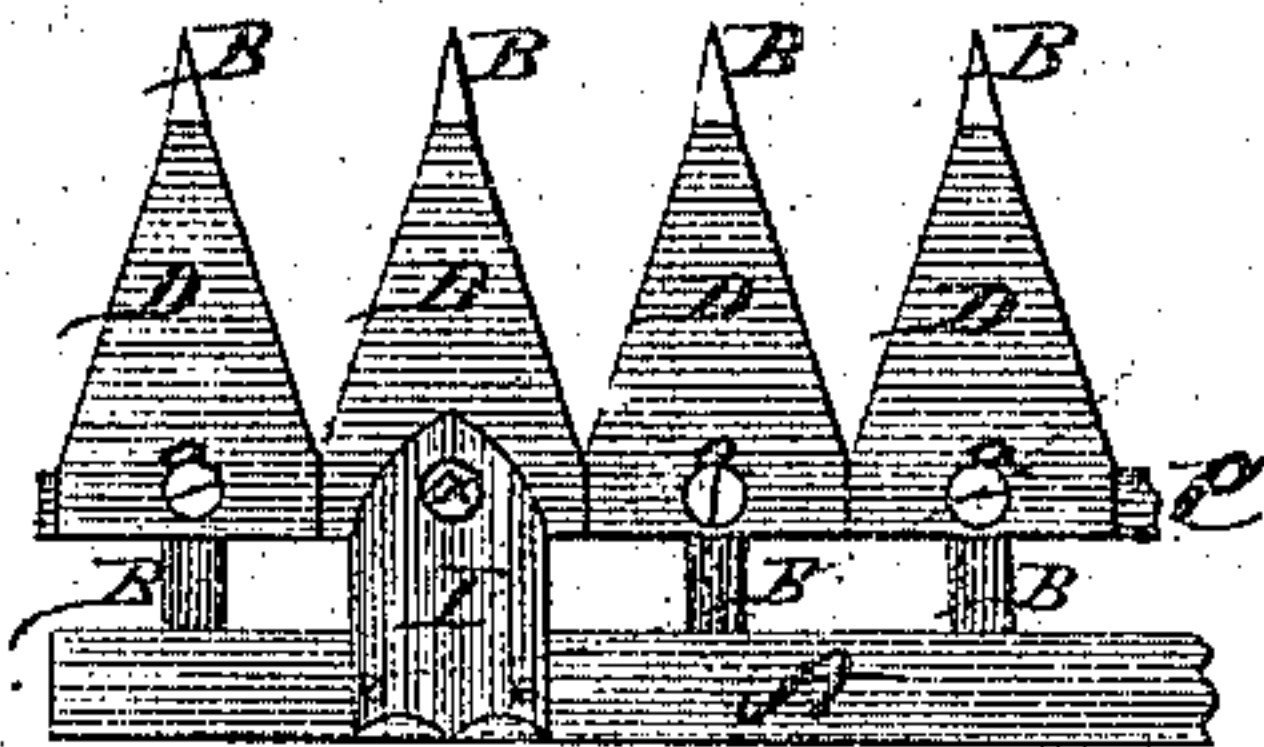


Fig. 3



Witnesses

J. Lehmann
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Attys

UNITED STATES PATENT OFFICE.

WILLIAM JAMES OXER, OF WILLIAMSPORT, INDIANA.

IMPROVEMENT IN CUTTER-BAR FOR HARVESTERS.

Specification forming part of Letters Patent No. 103,361, dated May 24, 1870.

To all whom it may concern:

Be it known that I, WILLIAM JAMES OXER, of Williamsport, in the county of Warren and in the State of Indiana, have invented certain new and useful Improvements in Cutter-Bars for 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, making a part of this specification.

The nature of my invention consists in the construction and general arrangement of a cutter-bar for harvesters, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view of the entire cutter-bar. Fig. 2 is a bottom view of a portion of the same, and Fig. 3 is a plan view of a portion of the underknives and fingers or guards.

A represents the finger-bar, to which the fingers or guards B B are attached in any suitable manner. On the upper side of the guards B B a suitable distance from the finger-bar A, and running parallel with the same, is secured a bar, C. This bar is secured by screws *a a*.

The sections D D, which form the under knife, are fastened to the bar C by rivets, the points of said sections passing under the points of the fingers B B or guards, in a groove or grooves made in the same. The fingers or guards B B, it will be seen, thus extend only so far on the upper side of the sections or knives D D as is necessary to hold them in position on the same.

The screws *a a*, that hold the bar C to the fingers or guards B B, pass entirely through the sections D D, said sections being for that purpose provided with a hole at the base, in the center, so as to pass freely over the heads

of the screws. By this means the rivets, when broken, may be taken out of the knife without removing the screws; and by removing said screws the lower knife may be taken out and ground, when so desired.

On the upper side of the lower knife D is placed the sickle E, having at its base, on the under side, a bar, *b*, which fits between the finger-bar A and the knife-bar C. The sickle E is of such size as to cover the under knives, when the crank is on its extreme stroke, so that the sections commence cutting in the center, and has its cut equally divided on the knives.

The sickle E is held close to the lower knife D by means of spring shields I I, secured to the upper side of the finger-bar A by screws, so that they can be tightened at pleasure, and cause them to press the edges of the knives close together, so as to insure a true cutting-edge, and keep the machine from clogging or choking. The points of the shields I are provided with holes, so that the screws *a a* may be removed without removing the shields.

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

1. In combination with the sickle E, with its under projecting bar or enlargement fitting into the groove described, the shield-shaped springs I, provided with openings at their ends, and secured to the bar A, with their ends resting upon the sickle E, substantially as specified.

2. The arrangement of the bars A and C, fingers B B, knives D D, sickle E with bar *b* and the springs I I, all constructed to operate substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 11th day of September, 1869.

W. J. OXER.

Witnesses:

LEVIN T. MILLER,
J. C. MILLER.