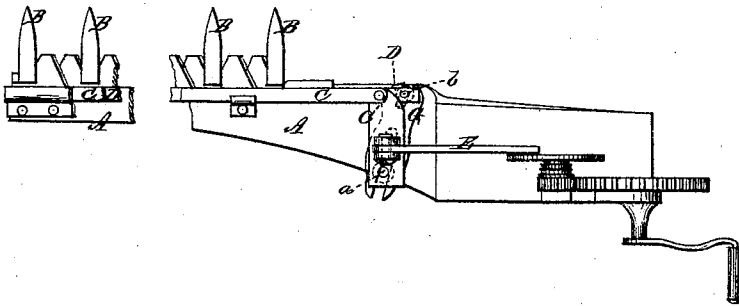


S. W. BEACH.

Improvement in Cutting Apparatus for Harvesters.

No. 128,456.

Patented July 2, 1872.



Witnesses
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UNITED STATES PATENT OFFICE.

SYLVESTER W. BEACH, OF YPSILANTI, MICHIGAN.

IMPROVEMENT IN CUTTING APPARATUS FOR HARVESTERS.

Specification forming part of Letters Patent No. 128,456, dated July 2, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, SYLVESTER W. BEACH, of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Reaping-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

My invention relates to that class of cutter-bars for reapers and mowers in which there are two reciprocating cutters operating in opposite directions; and it consists in the arrangement of the devices whereby the cutters are made to operate in opposite directions, as will be hereinafter more 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 is represented a plan view of my cutter-bar.

A represents the finger-bar with the fingers B B. C and D are the two cutter-bars, operating on the finger-bar A through the fingers B B, all being constructed in any of the known and usual ways. The cutter-bar C is, at its inner end, provided with an extension or bar, C', rigidly attached to it, and extending at right angles with it toward the rear. To this extension C' is pivoted the pitman E, which gives motion to said cutter-bar C, and is oper-

ated by any suitable mechanism on the body of the reaper or mower. On the inner end of the finger-bar is placed a lever, G, which is pivoted through its center, and both ends are slotted, as shown. From the rear end of the extension C' a pin, *a*, extends downward into the slot at one end of the lever G, while a similar pin, *b*, extends downward, from the inner end of the cutter-bar D, into the other end of the said lever.

Thus it will be seen that as the cutter-bar C is, by the machinery on the body of the reaper or mower, operated back and forth, the other cutter-bar D is, by the pins *a b* and the slotted centrally-pivoted lever G, also operated back and forth, but always in the opposite direction from that of the former.

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

In combination with the reciprocating cutter-bars C D the extension bar C', pitman E, centrally-pivoted lever G having slotted ends, and the pins *a b*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

SYLVESTER W. BEACH.

Witnesses:

JOSEPH H. MANNING,
WM. PETERSON.