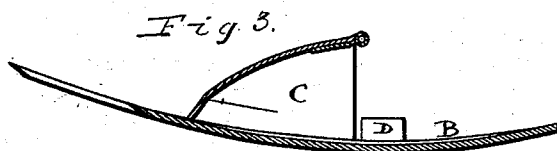
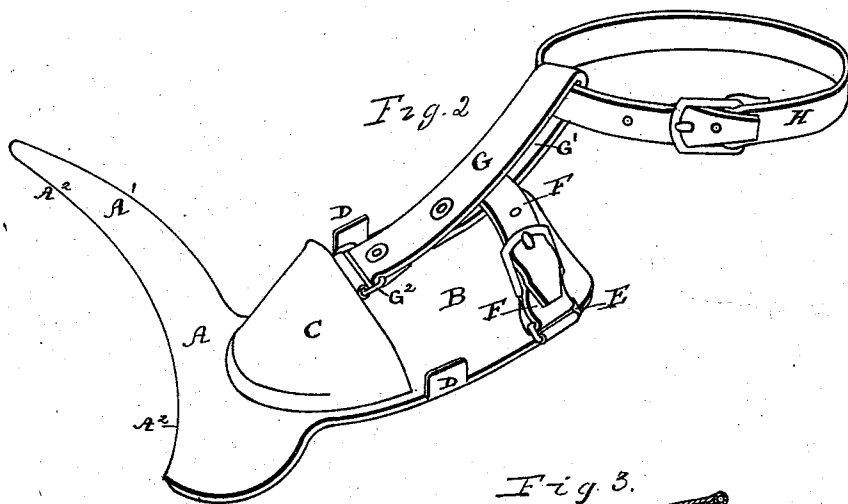
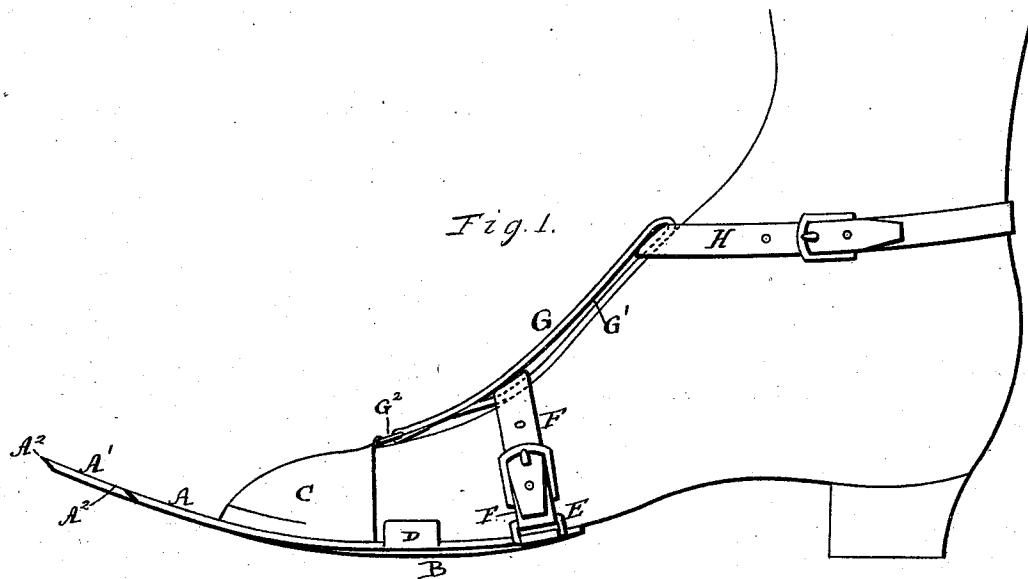


H. & S. BALL & G. PENWARDEN.

IMPLEMENT FOR HARVESTING CORN.

No. 173,435.

Patented Feb. 15, 1876.



WITNESSES

Robert Everett
A. H. Bates

INVENTOR

Henry Ball
Simeon Ball
George Penwarden
J. C. Sathrop
ATTORNEY

UNITED STATES PATENT OFFICE.

HENRY BALL, SIMEON BALL, AND GEORGE PENWARDEN, OF SHIOCTON,
ASSIGNORS OF ONE-HALF THEIR RIGHT TO GRATTAN A. MURRAY,
OF NEW LONDON, WISCONSIN.

IMPROVEMENT IN IMPLEMENTS FOR HARVESTING CORN.

Specification forming part of Letters Patent No. **173,435**, dated February 15, 1876; application filed
October 20, 1875.

To all whom it may concern:

Be it known that we, HENRY BALL, SIMEON BALL, and GEORGE PENWARDEN, of Shiocton, in the county of Outagamie and State of Wisconsin, have invented certain new and useful Improvements in Corn-Cutters attached to the foot; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification:

Our invention relates to improvements in that class of devices for cutting the standing stalks of Indian corn, which are adapted to be worn on the foot of the operator, the nature of which will be fully explained by reference to the accompanying drawings, in which—

Figure 1 represents a side view of our improved device applied to a foot. Fig. 2 represents a perspective view of the device separately, and Fig. 3 is a sectional view of parts.

In each of the views similar letters of reference are employed to indicate corresponding parts wherever they occur.

A represents the cutter, which is formed on or affixed to a sole-piece, B, so formed as to be readily applied under the sole of the boot or shoe of the operator, as shown by Fig. 1. C is a toe cap-piece, adapted to receive and embrace the toe of the boot; and D D are projections, formed on or affixed to each side of the sole-piece B, in position to bear against the opposite edges of the sole of the boot, and keep the sole piece in correct position under the sole of the boot. E are loops or suitable connections, to which are attached side straps F, which pass up over the foot of the wearer, and between the loop G¹ of a central strap, G, one end of which is connected to the cap C by means of a loop or other suitable connection, G², while at its opposite end

the strap G, by means of the loop G¹, embraces an ankle-strap, H. The cutter A is formed on or affixed to the sole-piece B in front of the cap C, and is provided with a horn-shaped extension, A¹, which is sharpened or formed with a knife-edge, A², so as readily to sever the stalks when thrust against the same by the forward motion of the foot.

It will be seen that the toe-piece C not only receives the thrust and aids in securing the implement to the foot, but it also serves to protect the boot from wear, and to prevent injury to the foot. It will be apparent that other devices may be employed for securing the blade A to the foot.

Having thus described our invention, what we claim is—

1. A corn-stalk cutter constructed with a blade, A, sole-piece B, toe-cap C, and projections D D, substantially as described.

2. The combination, with a corn-stalk cutter constructed with a blade, A, sole-piece B, toe-cap C, and projections D D, of the side straps F, central strap G, and ankle-strap H, substantially as shown and described.

3. A corn-stalk cutter adapted to be worn upon the foot, constructed with a sole piece, B, and toe cap C, and a cutter, A, formed on or affixed to and in front of the sole-piece B and toe-cap C, substantially as described.

4. A corn-stalk cutter constructed with a sole-piece, B, toe-cap C, projections D D, and a cutter, A, provided with a horn-shaped extension, A¹, and formed on or affixed in front of the sole-piece B and toe-cap C, substantially as described.

In testimony that we claim the foregoing as our own we herewith affix our signatures in presence of two witnesses.

HENRY BALL.
SIMEON BALL.
GEORGE PENWARDEN.

Witnesses:

E. S. SHEPARD,
E. A. SHARD.