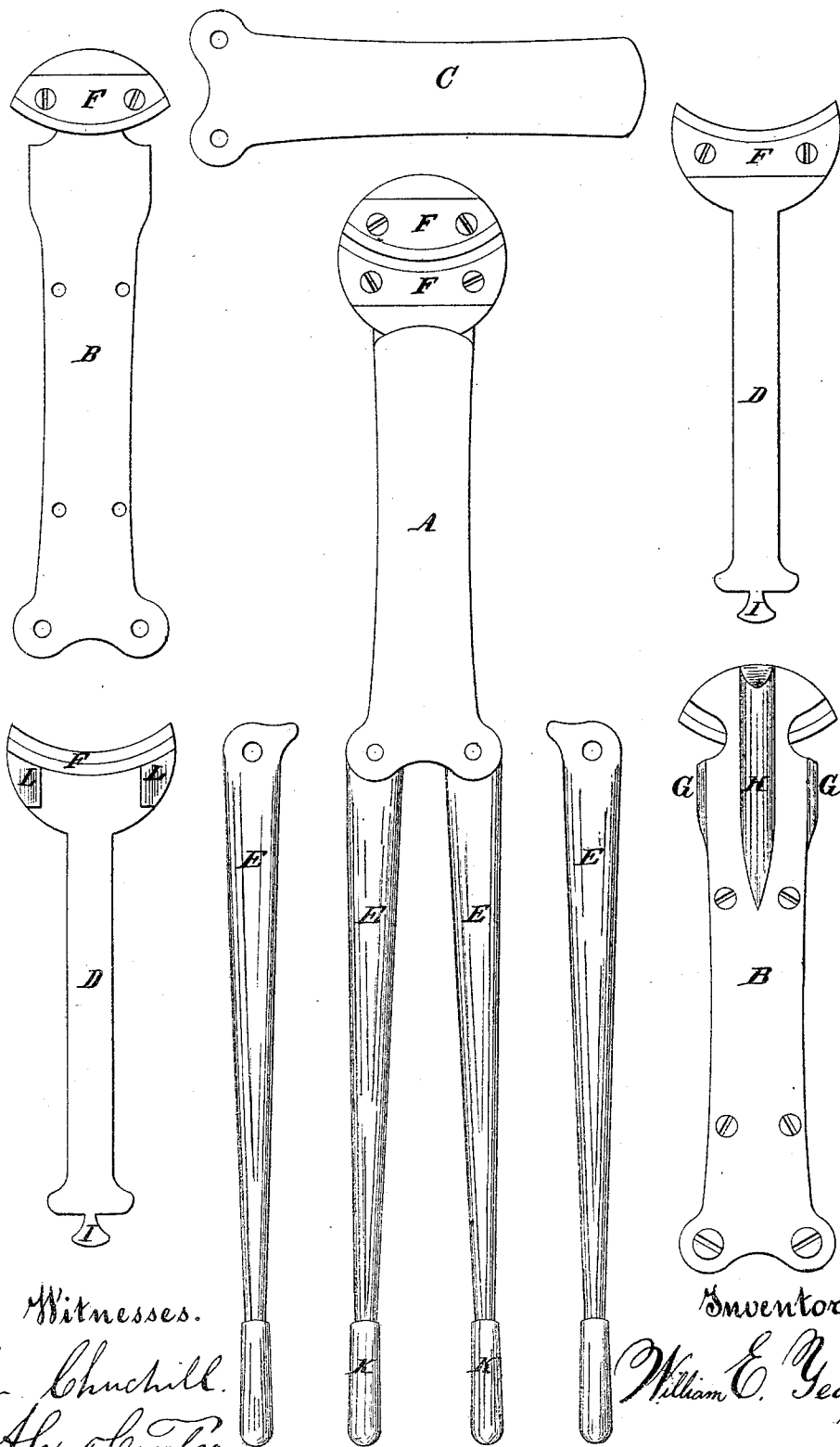


WILLIAM E. YEAGER.
Improvement in Bolt-Cutters.

No. 114,383.

Patented May 2, 1871.



Witnesses.
Jm Churchill.
Alex. O. Carter.

Inventor.
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United States Patent Office.

WILLIAM E. YEAGER, OF LAWRENCE, KANSAS.

Letters Patent No. 114,383, dated May 2, 1871.

IMPROVEMENT IN BOLT-CUTTERS.

The Schedule referred to in these Letters Patent and making part of the same.

I, WILLIAM E. YEAGER, of Lawrence, in the county of Douglas and State of Kansas, have invented certain Improvements in Bolt-Trimmers, of which the following is a specification.

Nature and Object of the Invention.

The first part of my invention relates to the knives projecting on the right and left side of the machine in such a manner that a bolt or rivet may be cut in the right or left corner of a wagon or carriage-body.

Second, the distance from the knives to the levers prevents said levers interfering against the side on which the bolt is to be cut.

Third, the movable shaft to which one knife is attached is dovetailed to the back of the machine in such a manner as to close the knives evenly, and adds great strength to said back and shaft.

Fourth, the levers press against the end of the shaft, and by the knob attached to the shaft it is drawn back; thus cogs are dispensed with, which are so liable to break.

Fifth, the shaft moving in a box between the knives and levers, prevents said shaft from springing, and thereby I am enabled to get the distance between the knives and levers, which adds greatly to the convenience of the machine.

Description of Accompanying Drawing.

- A, the machine complete.
- B B, the top and bottom of the back.
- C, the box between the knives and levers.
- D D, the top and bottom of the shaft.
- E E, the levers.
- F F, the knives.
- G G, the dovetail on which the shaft D moves.
- H, the rib on back B, to add to its strength.

I, the knob by which the shaft *d* is drawn back.

K K, the wooden handles.

L L, the dovetail on shaft D.

General Description.

B is the back, to which one of the knives is attached by two strong screws.

The bevel G G, on each side, to secure the shaft D, or to form the dovetail mentioned in the foregoing.

The rib H, to increase the strength, (where needed.)

D is the movable shaft passing through box C, and attached to back B by dovetail, and securing the other knife by screws as aforesaid.

C, the box to which the back B is fastened by four screws, through which the shaft D passes from the levers E E to the knives F F.

The levers E E work on two bolts through back B and box C.

The levers are so formed to press against the end of shaft D that, in bringing the levers together, the knives are closed, and by the knob I the shaft is drawn back when said levers are drawn apart.

The back B, box C, and shaft D are malleable iron; the knives are cast-steel; the levers are wrought-iron.

Claim.

I claim as my improvement in devices for cutting off the heads of bolts, rivets, and the like—

The broad support for the cutters F at the end of the shaft D, and the recesses in the cutter-head, conforming in shape to the cutting-edges of the laterally-extended cutters, as and for the purpose set forth.

WILLIAM E. YEAGER.

Witnesses:

GEO. CHURCHILL,
ALEX. CENTRI.