

(No Model.)

T. C. BELDING.
KNEE CUTTER.

No. 343,100.

Patented June 1, 1886.

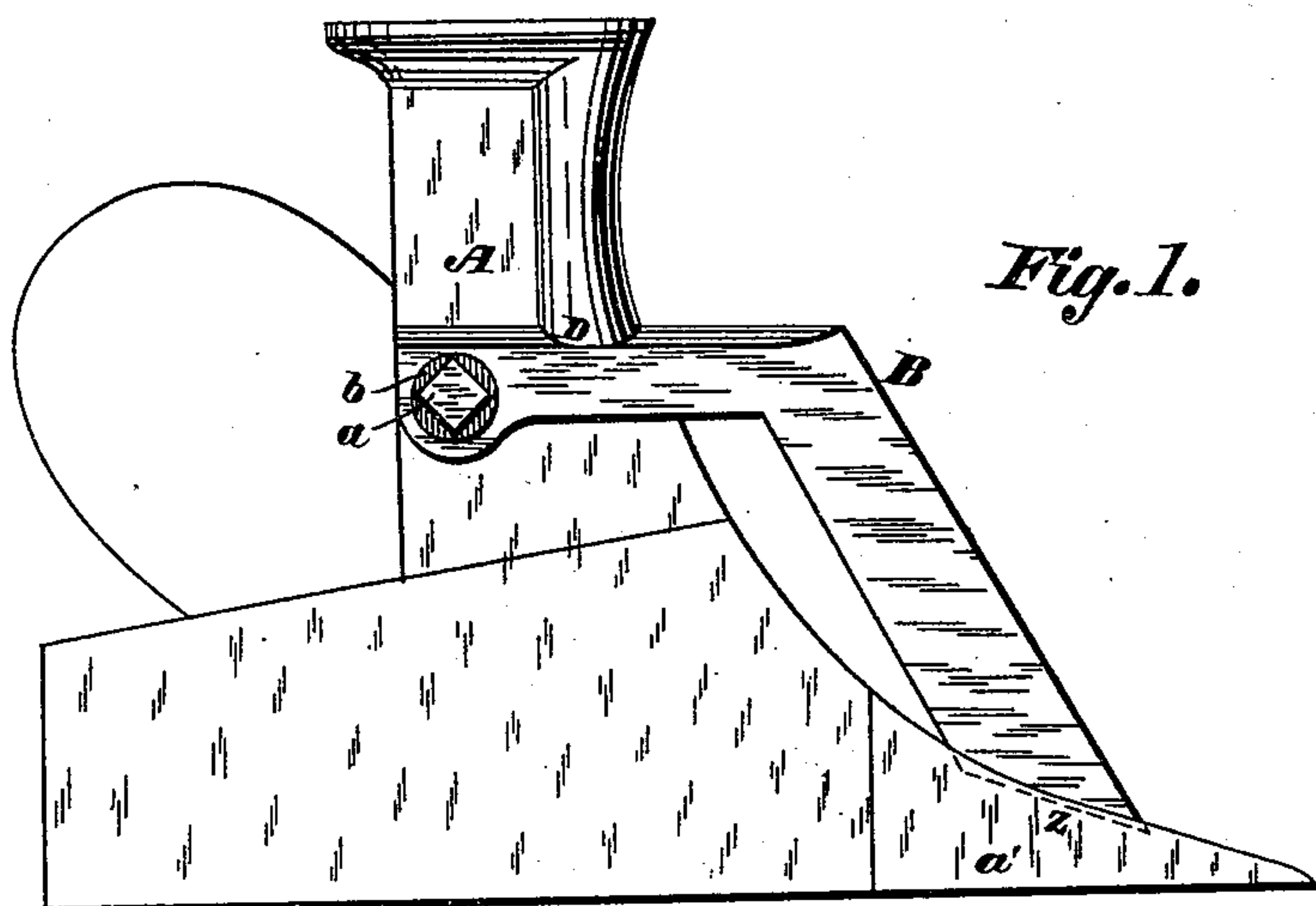


Fig. 1.

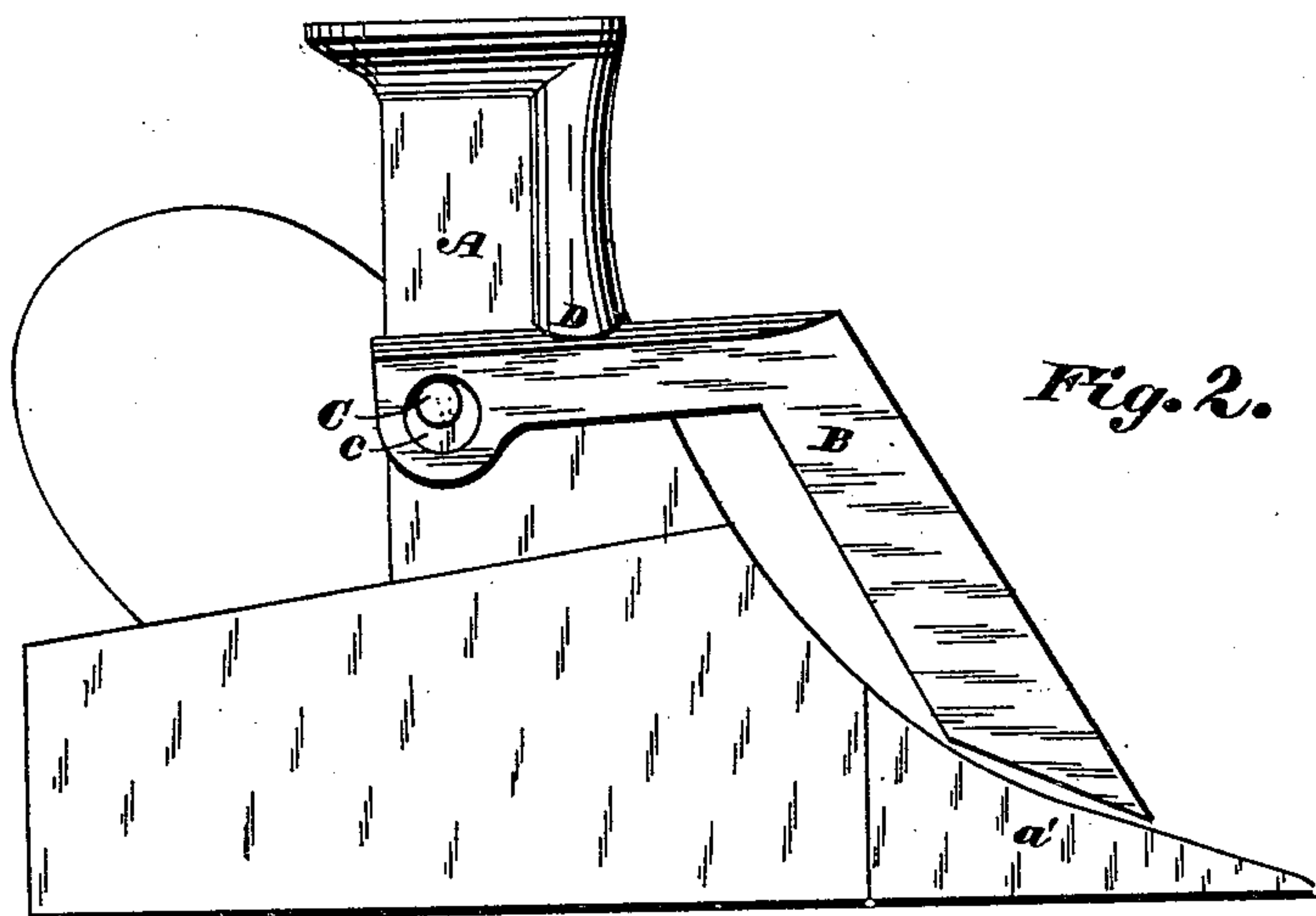


Fig. 2.

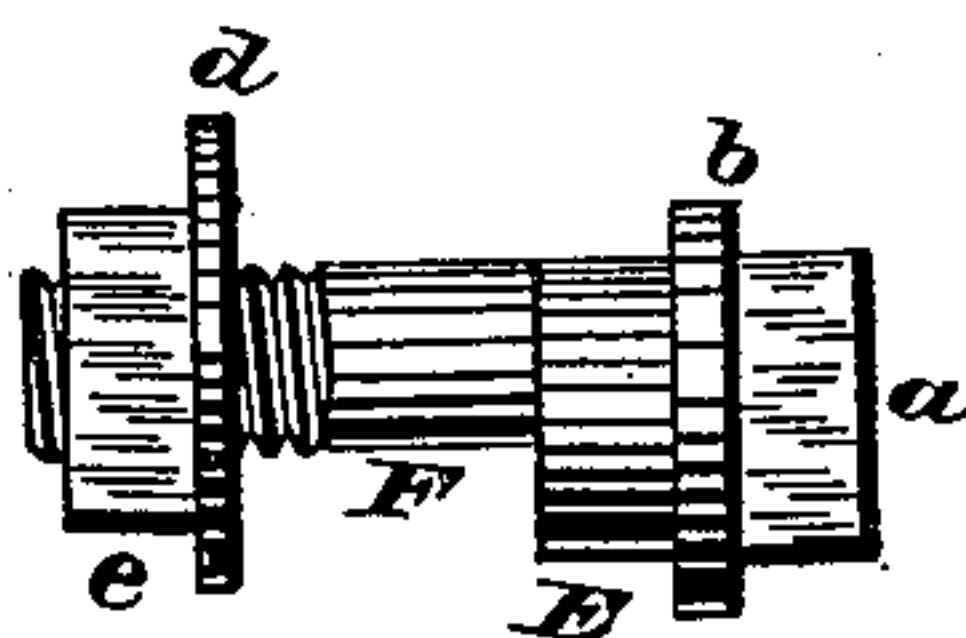


Fig. 3.

WITNESSES

Harry Frease
Joseph Frease

Thomas C. Belding,
INVENTOR.

Paul W. Bond

By Attorney

UNITED STATES PATENT OFFICE.

THOMAS C. BELDING, OF WAYNESBURG, ASSIGNOR TO THOMAS C. SNYDER,
OF CANTON, OHIO.

KNEE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 343,100, dated June 1, 1886.

Application filed September 3, 1885. Serial No. 176,129. (No model.)

To all whom it may concern:

Be it known that I, THOMAS C. BELDING, a citizen of the United States, residing at Waynesburg, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Knee-Cutters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a side elevation showing my improved cutter properly attached to a plow. Fig. 2 is a side elevation showing the eccentric bolt removed. Fig. 3 is a detached view of the combined eccentric and clamping-bolt or clamp.

The present invention has relation to knee-cutters; and its nature consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, A represents the post or standard of a plow, which may be formed in the usual manner and so arranged that the mold-board, share, and landside can be easily attached in any well-known manner. To the top or upper end of the standard A is attached the plow-beam in any well-known manner.

The knee-cutter B is substantially of the form shown in Figs. 1 and 2, and is attached or connected at its bottom or lower end to the share *a'*, as shown at Z, Fig. 1, by means of a groove or recess located or formed in the top or upper side of said share *a'*, which receives and holds the bottom or lower end of said knee-cutter B, as indicated by the dotted lines in Fig. 1, the rear or opposite end of said knee-cutter B being attached or connected to the post or standard A, substantially as shown in the drawings and hereinafter described.

The post or standard A is provided with the aperture C, which is located substantially as shown in the drawings, and is about the same in diameter as the F portion of the eccentric-

bolt *a*. This bolt *a* is provided with the eccentric E, which fits in the aperture *c*, and is about the same in diameter as said aperture, and is for the purpose hereinafter described.

To the side of the post or standard A is attached the lip or extension D. This lip or extension D may be cast or formed with the post or standard A, or it may, if preferred, be formed separate and attached in any well-known manner, and is for the purpose of assisting in holding the knee-cutter B in proper position.

It will be seen that as the eccentric E is turned up it will carry with it the rear end of the knee-cutter B, thus causing the top or upper edge of said knee-cutter to strike or bear against the said extension or stop D, which acts as a fulcrum and forces the front or lower portion of the knee-cutter into the notch or recess, as shown at Z, Fig. 1. One end of the bolt *a* is provided with a screw-thread, which receives the burr *c*, and is for the purpose of tightening said bolt *a*. The opposite end of said bolt is provided with a square head, which is for the purpose of turning the eccentric E by means of an ordinary wrench. The flange *b* is located substantially as shown in Fig. 3, and is for the purpose of lapping over the knee-cutter B, thus securely holding said knee-cutter against the side of the post or standard A.

The top or upper part of the knee-cutter is beveled, which fits under the beveled portion of the extension or stop D, and is so formed for the purpose of assisting in holding said knee-cutter rigid laterally.

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

1. The combination, with the knee-cutter B, provided with the aperture *c*, of the post or standard A, provided with the aperture C and the lip or extension D, and the bolt *a*, provided with the eccentric E, substantially as and for the purpose specified.

2. The combination, with the knee-cutter B, provided with the aperture *c*, of the post or standard A, provided with the aperture C, and the bolt *a*, provided with the eccentric E, substantially as and for the purpose specified.

3. The combination, with the share, provided with a recess or groove for receiving the lower end of the knee-cutter B, of the bolt *a*, provided with the eccentric E, and the post or
5 standard A, provided with the lip or extension D and the aperture C, substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS C. BELDING.

Witnesses:

WILLIAM RAEDEL,
CALVIN FINEFROCK.