

(No Model.)

A. G. CHRISTMAN.

PLOW.

No. 275,354.

Patented Apr. 10, 1883.

Fig. 1.

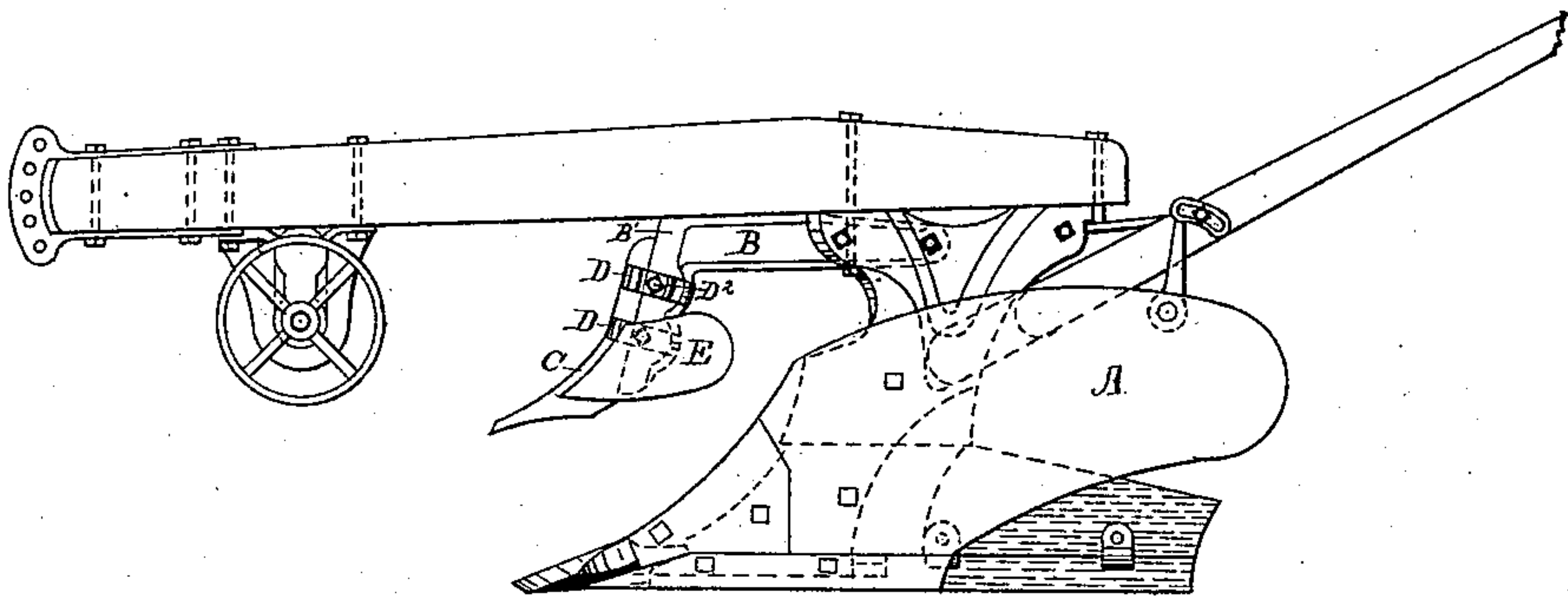


Fig. 2.

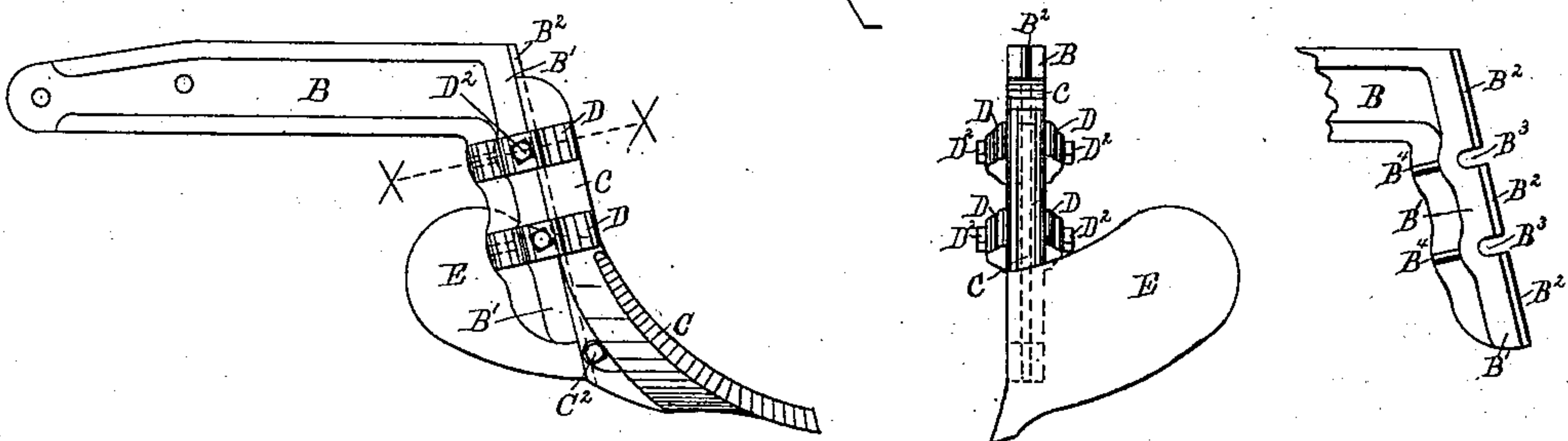


Fig. 3.

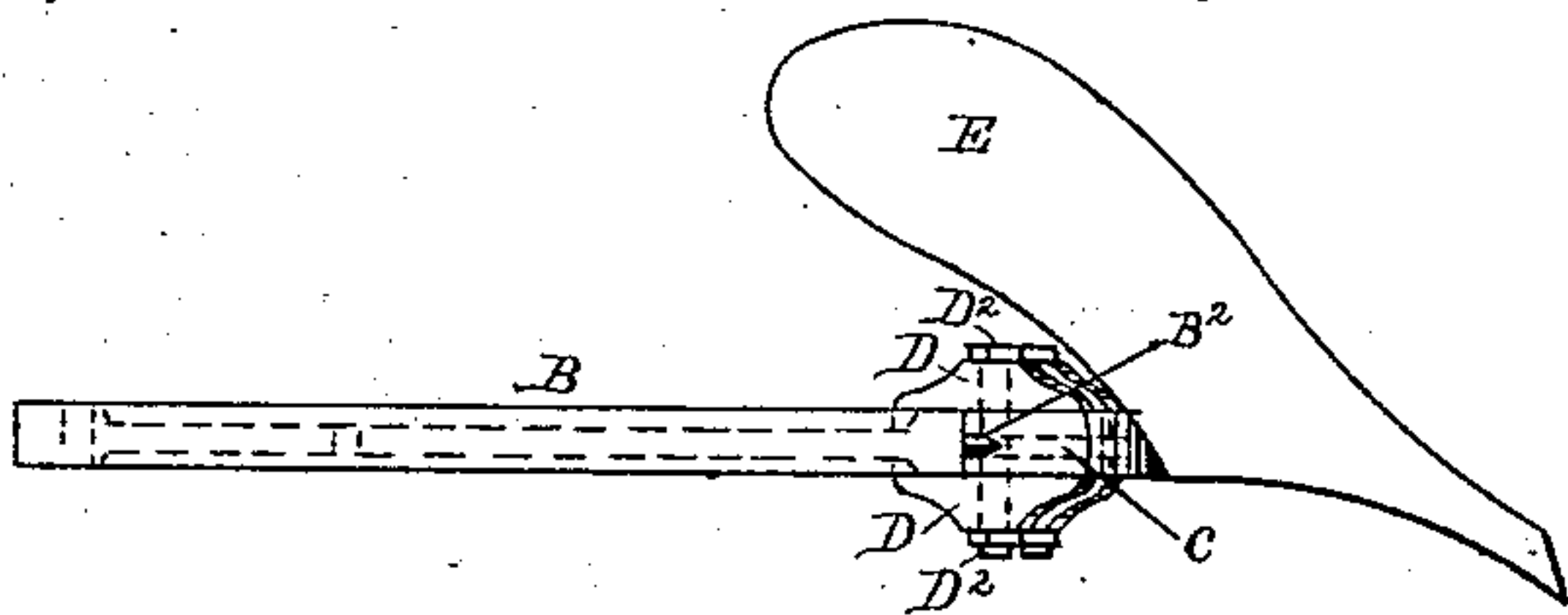
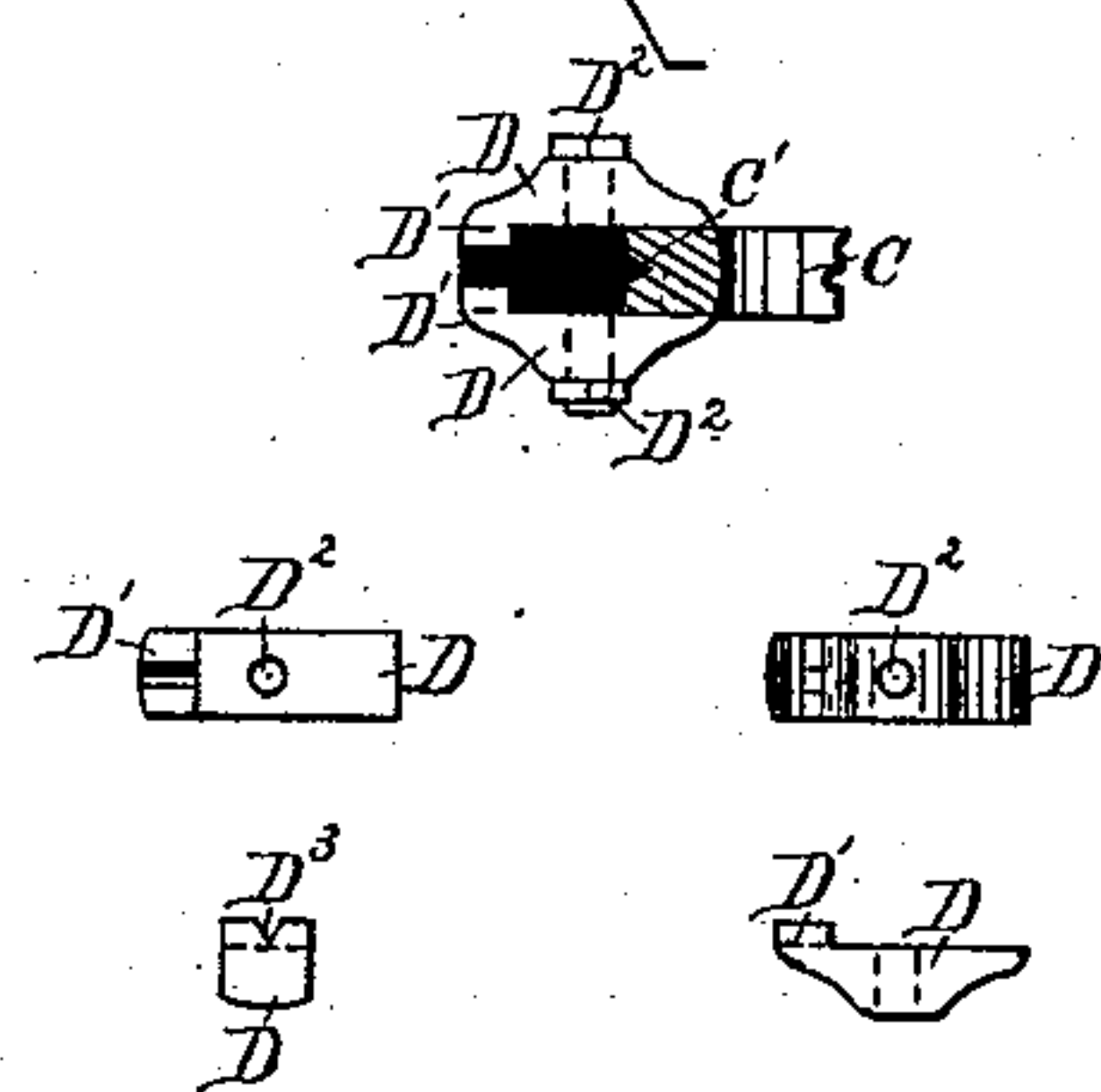


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

AUGUSTUS G. CHRISTMAN, OF LITIZ, PENNSYLVANIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 275,354, dated April 10, 1883.

Application filed September 16, 1882. (No model.)

To all whom it may concern :

Be it known that I, AUGUSTUS G. CHRISTMAN, a resident of Litiz, county of Lancaster, State of Pennsylvania, have invented a new and useful Improvement in Plows, of which the following is a specification.

This improvement relates more particularly to the jointer-bar head and jointer-standard connected therewith; and the object of the invention is to give facility of adjustment to the standard and an immunity from breakage, while not interfering with the use thereof.

Referring to the drawings, forming part of this specification, in which corresponding parts are similarly lettered, Figure 1 represents a plow with my improved jointer attached. Fig. 2 represents the jointer detached from the plow, in side and front elevation, and upon an enlarged scale. Fig. 3 is a plan of the jointer; Fig. 4, a section through the jointer-bar head and standard on the line *xx* of Fig. 2, also details of the friction-buttons.

A represents the plow, which is a double standard of my Patent No. 254,543, March 7, 1882.

B is the improved jointer-bar, provided with a head, B', V-guides B², transverse slots B³, and stops B⁴ for the buttons.

C is the jointer mold-board standard, its rear face adapted by a groove, C', and a corresponding face width to match with the head B' and its guides B², and to slide upon the same, the mold-board being secured to the standard, as usual, by bolt C². Buttons D D are strung upon a bolt, D², and dropped into the transverse slots B³ of the jointer-bar head. These buttons, which I term "friction-buttons," have offsets D' at one end, which project in from the side face of the jointer to the central web of the same, and have a female groove, D³, cut in the offset to fit upon the male stop B⁴ of the head, the jointer-standard resting against the faces of the bar-head. The friction-buttons are set with their ends D' over the stops B⁴, and the bolt D² screwed up until the standard will

be automatically held by the grip of the buttons. It may then be adjusted to the desired height upon the bar, a few turns given to the nuts, and the jointer will be held firmly in place with sufficient rigidity to do its proper work; but should an obstruction be met, practically unsurmountable, the standard C will slip out of the friction-buttons D, and the mold-board E, with the standard C, remain unharmed.

The improved jointer-head is applicable to any bar used upon either single or double standard plows, and its application will in all cases prove profitable where a jointer is used upon a plow.

The drawings and description are so detailed that an expert can readily understand the same, and will not require any further elucidation.

I desire therefore to secure by Letters Patent the following claims:

1. The improved jointer-bar B, adapted to be applied to double or single standard plows, and provided with a head, B', having longitudinal guides B², transverse slots B³, and stops B⁴, in combination with a jointer-standard, C, and friction-buttons D, substantially as shown, and for the purpose described.

2. The standard C of a jointer mold-board, adapted, by female groove C' and faces parallel therewith, to contact with the jointer-bar head, and adjustable thereon, in combination with the same and friction-buttons D, whereby the position of the standard is maintained, substantially as described, and for the purpose set forth.

3. The friction-buttons D, provided with offset D', and longitudinal groove D³, in combination with bolt D², jointer-bar slots B³, standard C, bar B, and plow A, substantially as shown, and for the purpose specified.

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Witnesses:

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