

No. 638,702.

Patented Dec. 12, 1899.

S. H. CLARK.
PLOW SET.

(Application filed Sept. 7, 1899.)

No Model.)

Fig. 1.

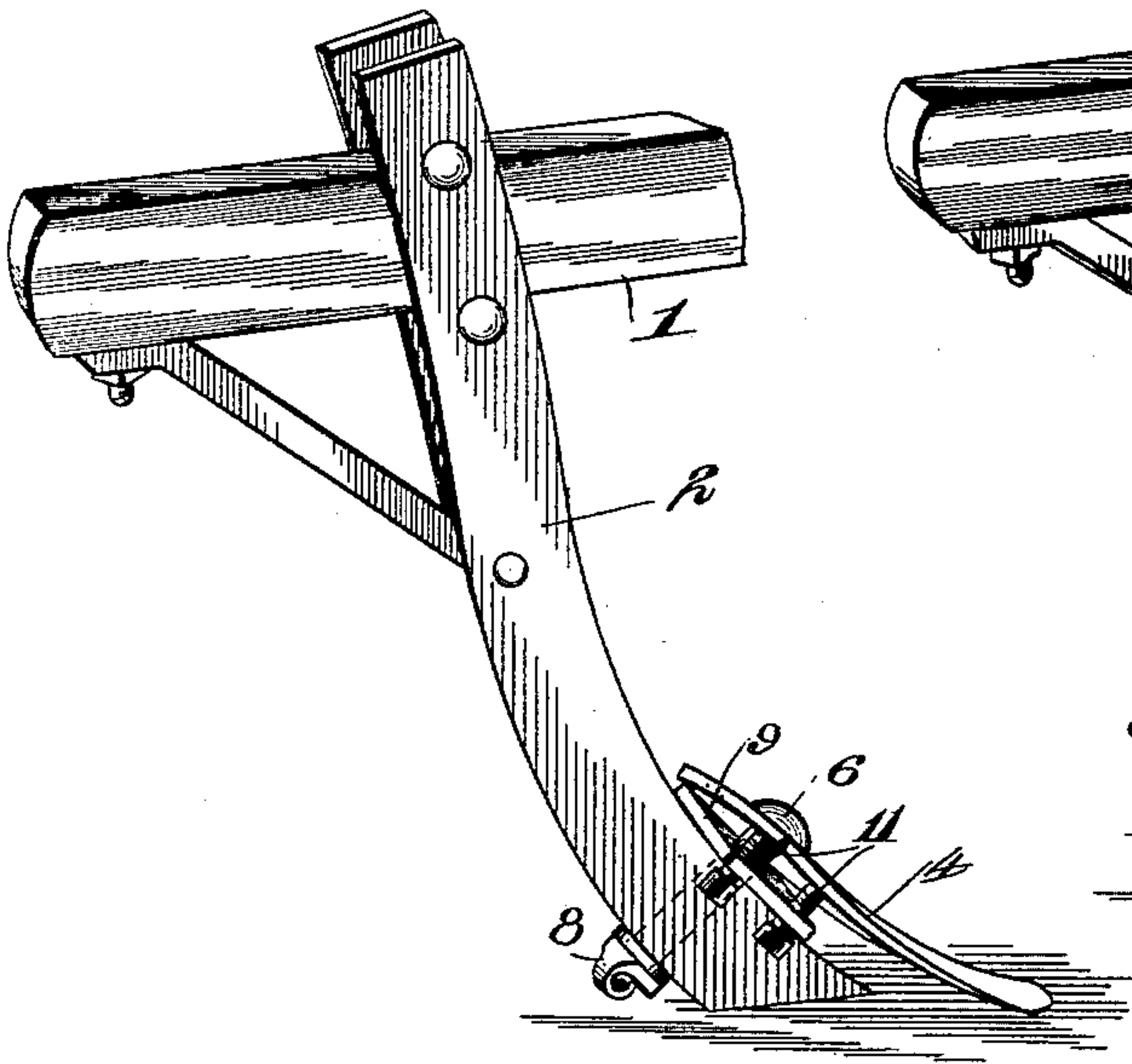


Fig. 2.

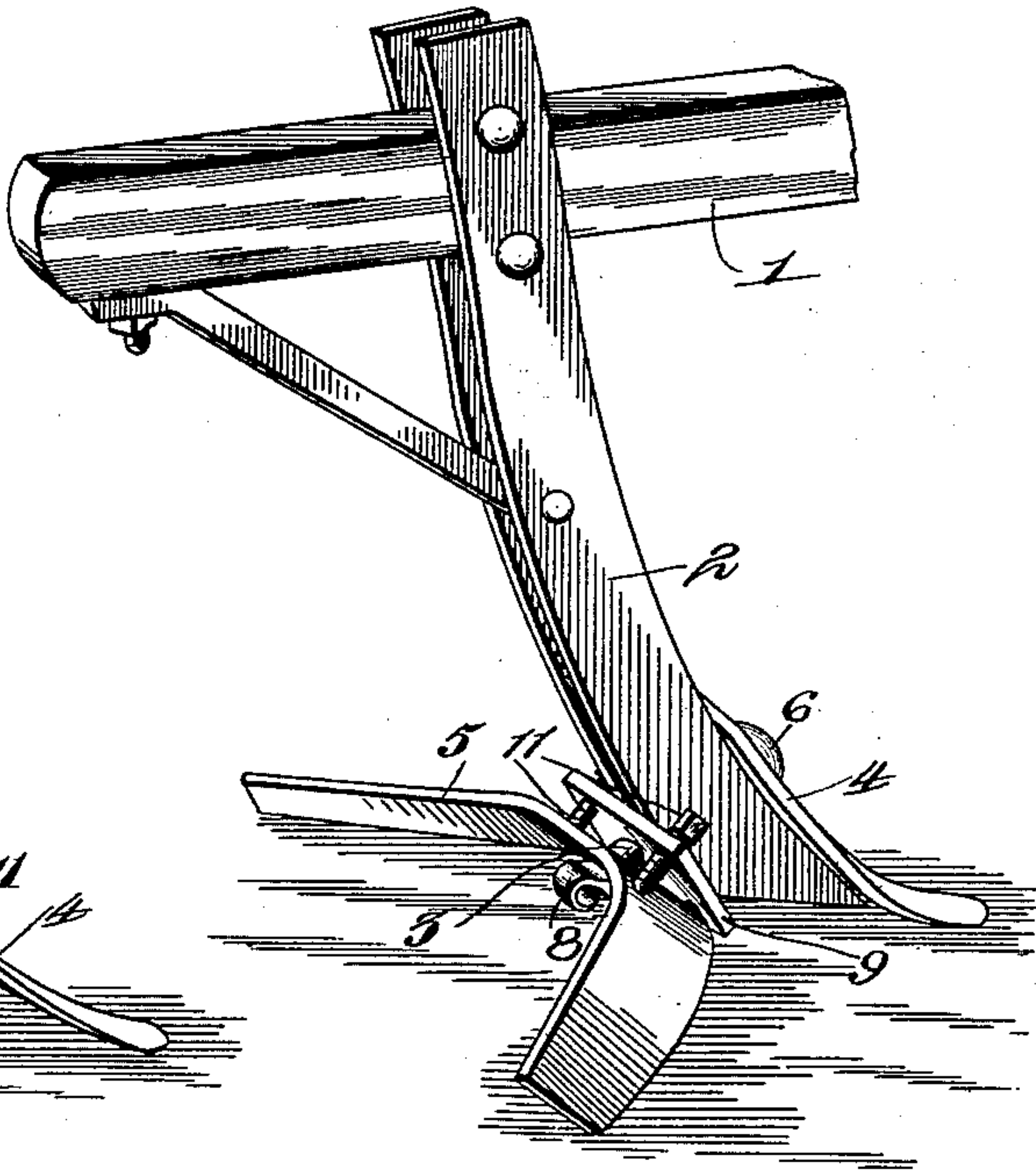


Fig. 3.

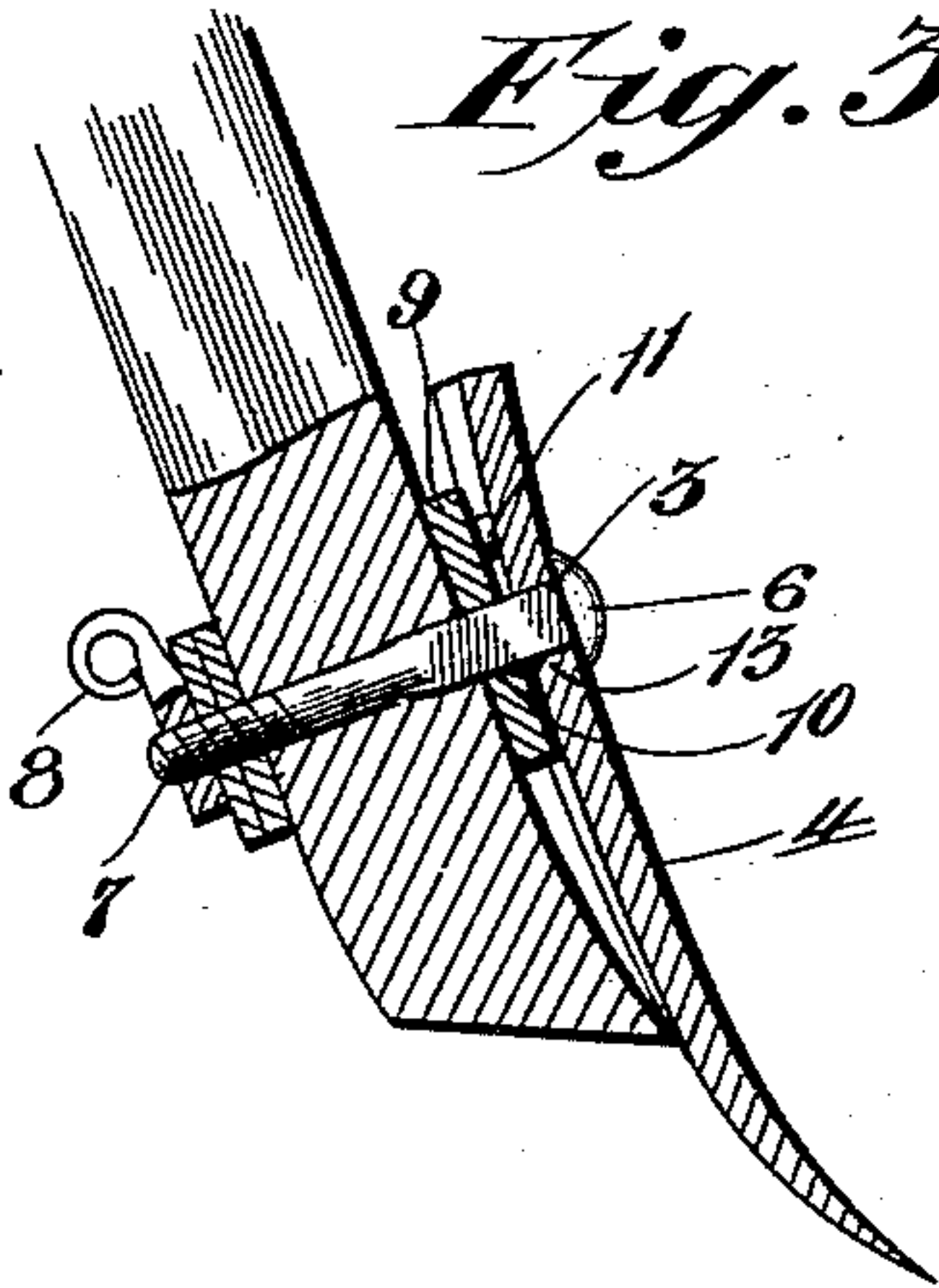
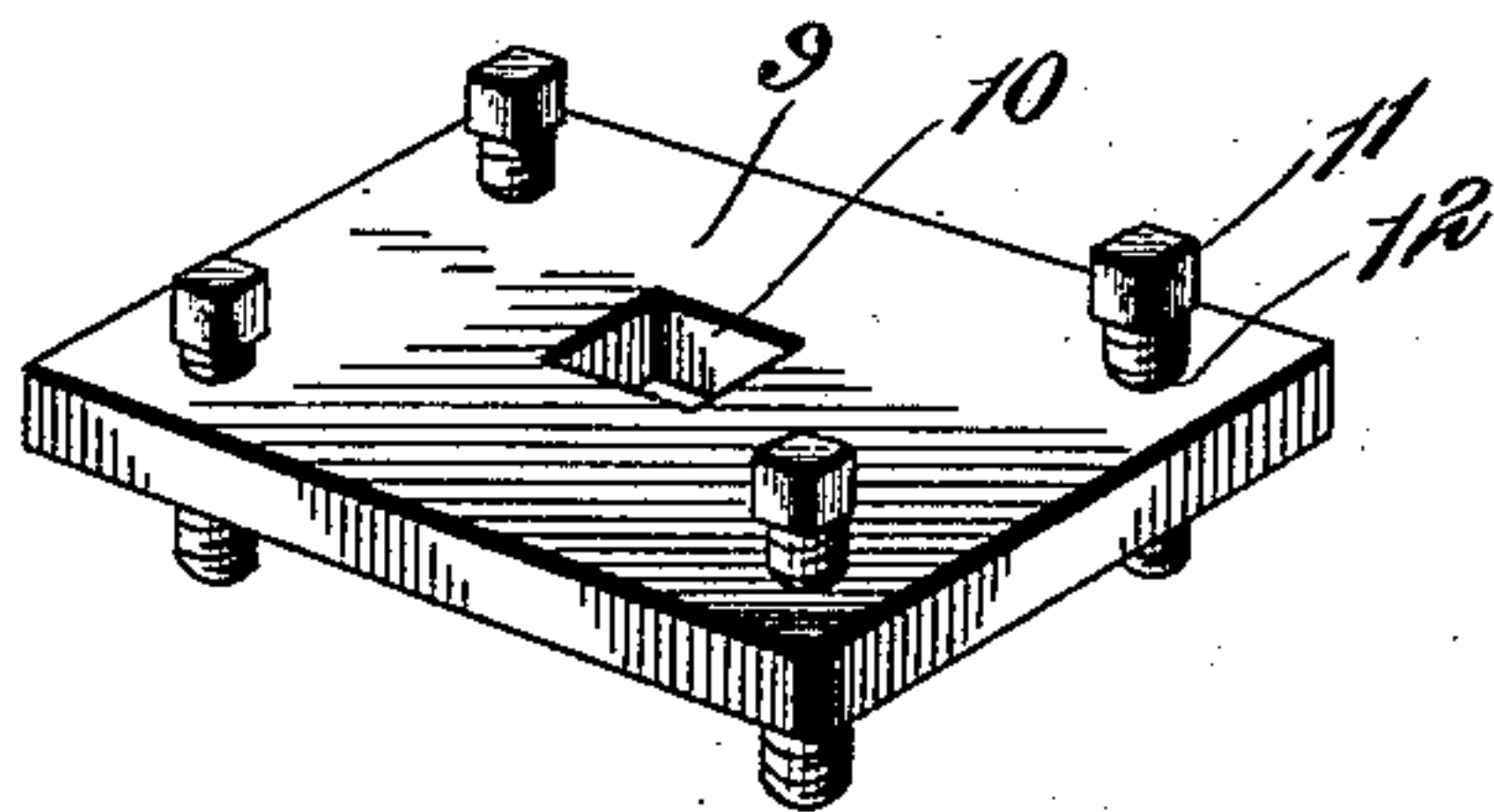


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL HOUSTON CLARK, OF RISINGSTAR, TEXAS.

PLOW-SET.

SPECIFICATION forming part of Letters Patent No. 638,702, dated December 12, 1899.

Application filed September 7, 1899. Serial No. 729,751. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HOUSTON CLARK, a citizen of the United States, residing at Risingstar, in the county of Eastland and State of Texas, have invented a new and useful Plow-Set, of which the following is a specification.

My present invention relates to a novel plow-set; and my object is to produce an extremely simple and inexpensive attachment for effecting various adjustments of a plow, heel-sweep, &c., and arranged for operative connection with the coöperating devices without necessity for the employment of securing parts other than the heel-bolt connecting the plow or other implement with the plow foot or stock.

A further object of the invention is to provide such an attachment with a number of adjusting devices by means of which a great variety of angular adjustments of the plow or other implement may be quickly effected to regulate the depth of the furrow or to cause the earth to be thrown to one side or the other or to accommodate a plow, cultivator, or the like to the character of ground intended to be worked.

Referring to the drawings, Figure 1 is a perspective view of a stock or foot, showing my plow-set arranged as in use, one side of the plow being thrown forward to cause the earth to be thrown to one side of the foot. Fig. 2 is a view similar to Fig. 1, but showing my device applied for adjusting a heel-plate or scraper. Fig. 3 is a sectional view through the lower end of a plow-foot and connected parts in further illustration of the application of my attachment, and Fig. 4 is a detail perspective view of my plow-set complete.

Referring to the reference-numerals applied to corresponding parts in the several views of the drawings, 1 indicates a fragment of a plow-beam, and 2 the stock or foot.

3 indicates a heel-bolt piercing the foot adjacent to its lower end, as usual, and designed to retain some form of plow 4 at the front of the foot or a sweep, scraper, or other device 5 at the rear of the foot, or both, as desired. The heel-bolt 3 is provided at its front end with a head 6, which ordinarily abuts against the face of the plow, and at its rear end is screw-threaded, as indicated at 7, for the re-

ception of the heel-tap 8, by means of which the heel-bolt is drawn up to clamp the plow, sweep, or other blade or implement against the stock.

Various devices have been employed for the adjustment of plows or the like with respect to their supporting parts; but ordinarily such devices are laboriously operated, incapable of attachment to different varieties of stocks, and are limited to few adjustments. In contradistinction my plow set or attachment is designed to be retained exclusively by the bolt which carries the implement to be adjusted, and as any agricultural implement employing cultivating implements or blades of any character embodies a securing-bolt my attachment is capable of employment without alteration in connection with the plow or other blade of any device of the general class enumerated and when attached is capable of an almost endless variety of adjustments.

Referring now to the construction and operation of my plow-set in connection with the implements carried by the heel-bolt of a plow or cultivator, 9 indicates a plate of any desired size or shape, provided with means for effecting its retention—as, for instance, a central aperture 10 for the reception of the heel-bolt and with a plurality of independent adjusting devices, preferably set-screws 11, passing through threaded apertures 12 in the plate 9.

In effecting the application of my invention, as illustrated in Fig. 1 of the drawings, the plate 9 is placed against the front face of the stock 2 and the heel-bolt, which has been passed through an opening 13 in the plow, is directed through the opening 10 in the plate and through the stock, where it is secured by the heel-tap 8. The rear face of the plow is opposed to the contiguous ends of the adjusting devices or screws 11, and therefore it will be apparent that the relative adjustment of these screws will, when the plow is drawn against their ends by the screwing up of the heel-tap, effect any desired vertical or horizontal angular adjustment of the plow.

In Fig. 1 I have shown the attachment with the adjusting devices at one side removed and with the adjusting devices at the opposite side of the plate thrown forward to tilt

the plow, one side of which contacts with the screws and the opposite side of which abuts against the edge of the plate 9. This arrangement is preferable where it is desired to use
5 an ordinary bull-tongue and to throw the furrow-slice to one side.

In Fig 2 I have shown my attachment mounted between the rear face of the stock and a heel-plate or sweep which it is designed
10 to adjust. Here, it will be noted, the adjusting devices are employed only at the upper edge of the plate as the lower edge of the sweep abuts against the lower edge of the plate, and the angular adjustment of the for-
15 mer can be effected by advancing or retracting the screws and by causing the sweep to contact with them, as the heel-tap is screwed up against its outer face.

It should now be noted that while the at-
20 tachment is entirely operative to effect various adjustments of a plow or other device opposed by a stationary element—as, for instance, the head 6 of the heel-bolt—there is an effective coöperation between the adjust-
25 ing devices and the movable heel-tap, since it is obvious that in some connection—as, for instance, that illustrated in Fig. 2 of the drawings—the heel-tap will be employed to force the sweep or other device into contact
30 with the screws, which, perchance, have been retracted to a greater or less degree.

Obviously various means for mounting the plate 9 might be provided, and any number or any desired form of adjusting devices
35 might be utilized in connection with the plate, and I therefore reserve the right to change, modify, or vary the details of my invention,

as may be hereinafter suggested by experience and experiment.

What I claim is—

1. A plow-set comprising an apertured plate and a plurality of independent adjusting devices carried thereby and adjustable toward and away from the plate. 40

2. A plow-set comprising an apertured plate and a plurality of independent adjusting devices extending through the plate and each device having an independent longitudinal adjustment through the plate. 45

3. The combination with a heel-bolt and implement, of a reversible plow-set carried exclusively by the heel-bolt and provided with a plurality of independent adjusting devices. 50

4. The combination with a heel-bolt, of a plow-set carried thereby and comprising a support and an adjusting device, and an adjustable implement carried by the heel-bolt and coöperating with the adjusting device of the plow-set. 55

5. The combination with a stock and heel-bolt, of an implement carried by the latter, a plow-set comprising an apertured reversible plate carried by the heel-bolt, a plurality of set-screws piercing the plate and means for urging the implement against the ends of the set-screws. 60 65

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

SAMUEL HOUSTON CLARK.

Witnesses:

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E. F. BUCY.