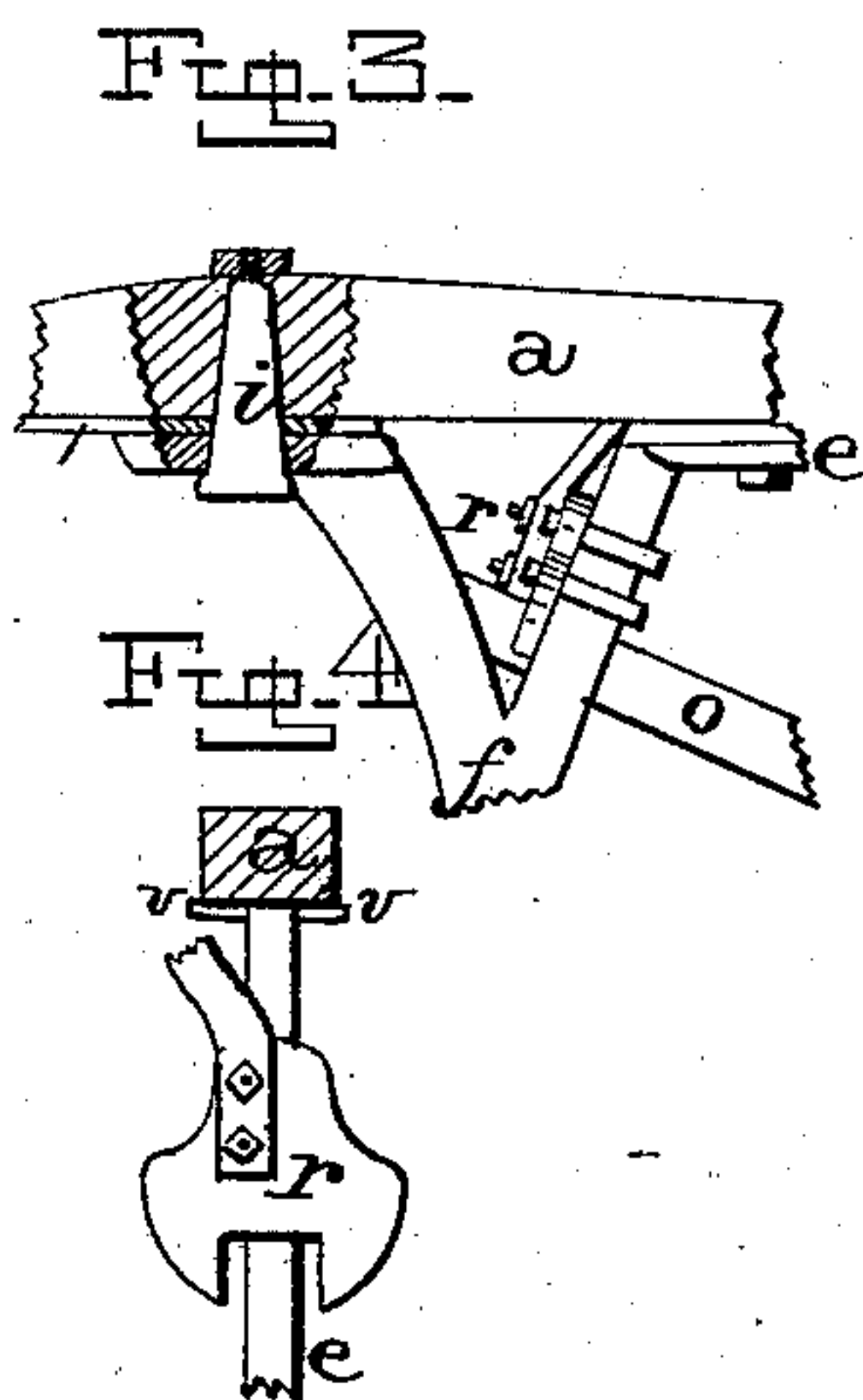
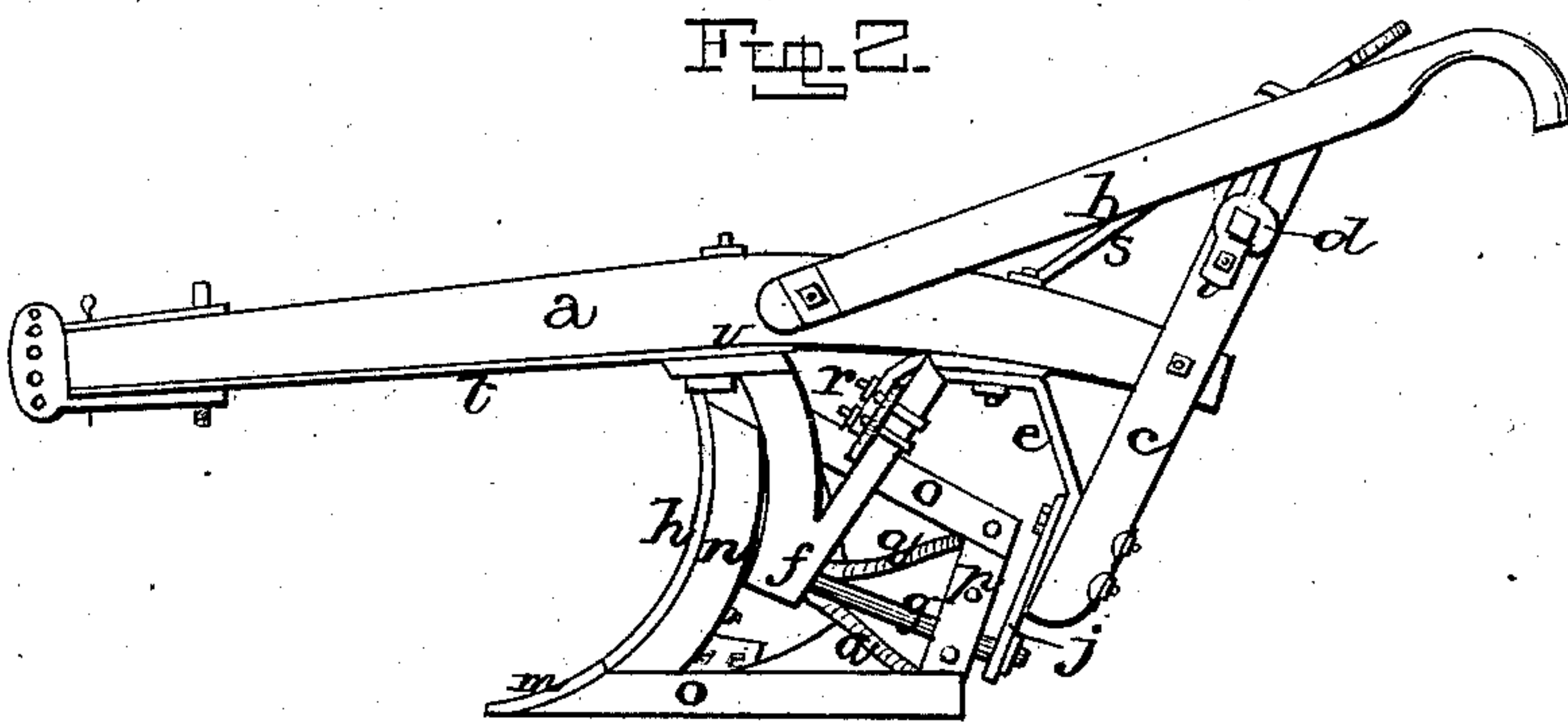
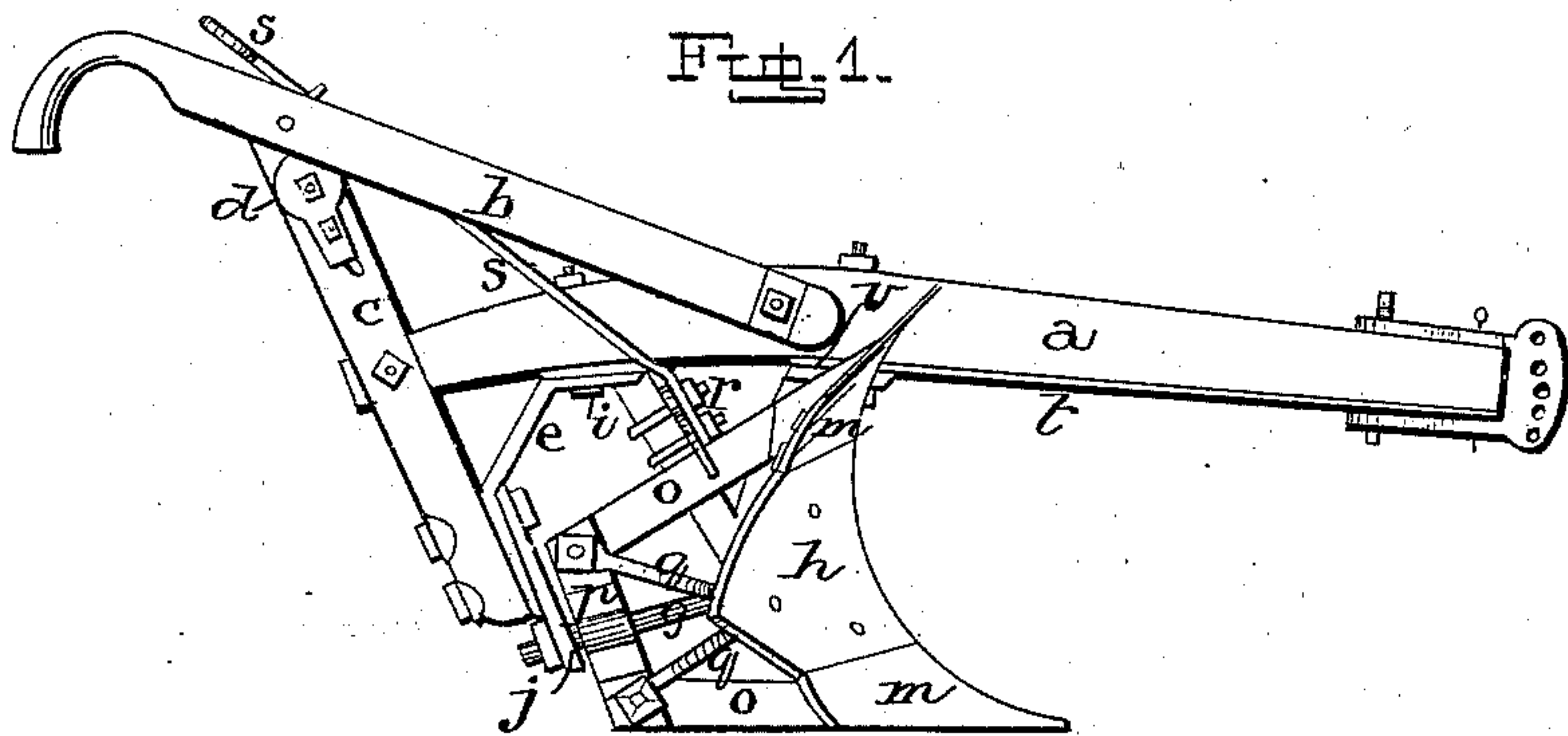


H. SATTLER.
Plow.

No. 225,077.

Patented Mar. 2, 1880.



Witnesses:

J. W. Garner
W. W. Mortimer

Inventor
Henry Sattler
per
F. A. Lehmann,
att'y.

UNITED STATES PATENT OFFICE.

HENRY SATTLER, OF HERMANN, MISSOURI.

PLOW.

SPECIFICATION forming part of Letters Patent No. 225,077, dated March 2, 1880.

Application filed December 20, 1879.

To all whom it may concern:

Be it known that I, HENRY SATTLER, of Hermann, in the county of Gasconade and State of Missouri, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in hill-side plows; and it consists in the arrangement and combination of parts, that will be more fully described hereinafter, whereby the construction of the plow is cheapened and simplified.

Figure 1 is a side elevation of my invention taken from one side, and Fig. 2 is a similar view taken from the other side. Figs. 3 and 4 are detail views of the same.

a represents the beam; *b*, the handles, and *c* the support, which is secured to the end of the beam, and which serves as a support for the handles above the beam and a brace for the metallic frame in which the mold-board revolves below the beam. If so preferred, the handles may be rigidly secured to the top of this support by the cross-bar; but where it is desired to make the handles adjustable up and down, so that either a man or a boy can plow with ease and comfort, the cross-bar between the handles will pass through the upper ends of the two plates *d*, which are bolted upon the upper end of the support *c*, which is perforated or slotted, so that the handles can be adjusted into any desired position. These plates are also adjustable up and down by a series of holes in the support.

The metallic frame *e*, in which the revolving mold-board is pivoted, may be made in one continuous piece or several pieces, and is fastened both to the under side of the beam and to the lower end of the support *c*, as shown. This frame *e* projects downward at or near its front end, so as to form the front pivot, *f*, for the shaft *g*, to which the revolving double mold-board *h* is secured. The rear pivot for this shaft may be formed by the lower end of the frame itself, when the frame is made in

either one or two pieces, or by a short separate piece, *j*, which is secured to the lower end of the support *c* by means of bolts or other suitable fastening devices. By using a separate and distinct piece for the bearing, in case it should become worn or injured it can be readily replaced by another. The bolt *i*, which secures this frame rigidly to the under side of the beam, is made flat and tapering, and of the same thickness its whole length, and on the upper end, where it passes through the top of the beam, it receives a nut, as shown. As this bolt is made flat, and its widest part is in a line with the length of the beam, the beam is not weakened as much as it would be were a common bolt used.

The mold-board *h* is bent into the curved form shown, and it and the two shares *m* are secured at their inner edges to the curved brace *n* and the two land-sides *o*. These two land-sides are placed in such relation to each other and the beam that either one can be used to rest upon the ground and support the plow in the usual manner. The two rear ends of these land-sides are rigidly secured together by the bar *p*, upon which is formed a bearing for the pivotal shaft, and from these ends extends the brace *q*, which supports the outer edge of the mold-board. The two ends of the curved brace or standard *n* are secured to the inner sides of the two mold-boards, and the joints between the mold-board and two shares are covered and braced by suitable plates in the usual manner.

Sliding upon the inclined part of the frame *e*, just to the rear of the pivot *f*, is the latch *r*, which is operated by the rod *s*, that extends back to the handle, and which catches over one of the land-sides, so as to lock the mold-board on whichever side may be desired.

Secured to the under side of the beam and extending forward to the clevis is the plate *t*, which is as wide at its rear end as the beam. This plate serves not only to strengthen the beam, but the rear end acts as a guard, *v*, to each side of the beam, so that the shares will not cut it.

I am aware of the patent to H. B. Abbott and others, wherein a double plow is suspended from and revolves beneath a plow-beam.

My improvement relates to details of construction, and especially to an adjustable and removable bearing for the shaft.

Having thus described my invention, I
5 claim—

In a side-hill plow, the combination of the frame *e*, constructed as described, bearings *f* *j* for the shaft *g*, reversible plow-beam *a*, support *c*, and holding-latch, substantially as
10 shown.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of December, 1879.

HENRY SATTLER.

Witnesses:

EDWARD NEUENHAHN,
R. H. HASENRITTER.