T. B. JONES.

PLOWS.

No. 194,553. Patented Aug. 28, 1877.

Fig. 1.

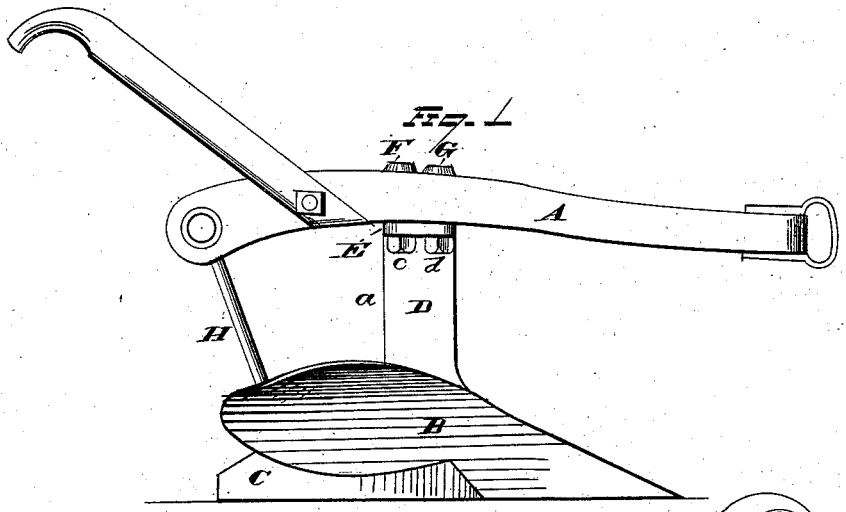


Fig. 2.

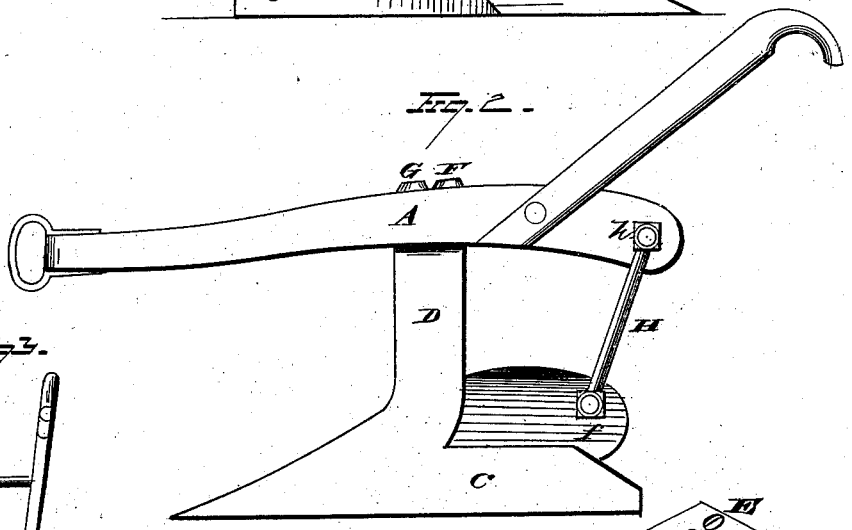


Fig. 3.

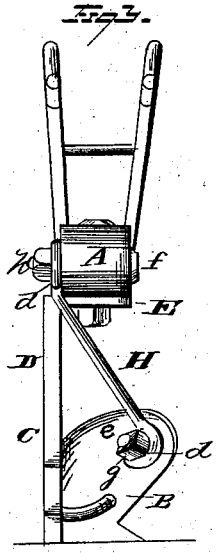
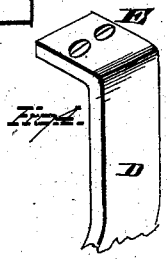


Fig. 4.



WITNESSES

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THOMAS B. JONES, OF MADISONVILLE, KENTUCKY.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **194,553**, dated August 28, 1877; application filed June 26, 1877.

To all whom it may concern:

Be it known that I, THOMAS B. JONES, of Madisonville, in the county of Hopkins and State of Kentucky, 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 a part of this specification.

My invention relates to an improvement in plows, the object being to provide a plow of small initial cost that shall consist of few parts and yet possess the maximum amount of strength and stability.

Figure 1 represents a side elevation of the mold-board side of the plow. Fig. 2 shows the land-side of the same; Fig. 3, a rear view. Fig. 4 illustrates the standard detached from the plow-beam.

A designates the plow-beam, which is formed of wood or metal, as may be desired. B is the mold-board, and C the land-side of the plow. D represents the standard, and the same is preferably made of wrought metal and rigidly secured to the land-side.

In order that the standard may have the requisite strength to withstand the strain brought to bear on the same, and also to present a narrow edge to any obstruction that may present itself, the body of the standard is formed with a wide body, as shown at *a*, and the upper end bent at right angles to the body of the standard to form an extended or long flange or bearing, E, upon which flange is seated the plow-beam A, and rigidly secured thereto by two bolts, F and G, the latter being arranged to pass through the ends of the flange, and secured in place by means of the fastening-nuts *c d*.

Standards, as ordinarily secured to the beam by a single bolt passing through a small flange on the upper end of the same, soon become loose, and the beam rocks on its upper end. This is occasioned either by the continual wear and strain on the single bolt, or by the shrinkage of the wooden plow-beam.

These several defects are obviated by my improved form of construction, as the plow-beam has an extended bearing on the standard, and is secured at two different points to the same, thus preserving perfect rigidity between such parts.

The mold-board B is strongly braced by means of a brace-rod, H, each end of which is provided with an eye, *d*, which parts snugly fit against and are secured, respectively, to the mold-board and inner or land-side of the plow-beam by bolts *e f* and nuts *g* and *h*, the bolt *f* extending horizontally through the plow-beam.

The object in securing the upper end of the brace-rod to the inner or land-side of the plow-beam is for the purpose of securing the greatest lateral resistance possible—or, in other words, to have the brace-bar form as obtuse an angle as is possible with the inner surface of the mold-board, and thus cause the strain to be brought as nearly in line with the length of the brace-rod as is practicable.

From the forgoing description of my improvement it will be observed that the desirable features of a valuable and salable implement are obtained.

As lightness is one of the prerequisites to a desirable plow, my invention is designed to secure a manufacture of this character, the plow-beam being firmly secured in place solely by means of the standard and a single brace-rod.

Again, the brace-rod is arranged in such a manner that its strength is disposed in the best possible manner in bracing the mold-board, as it is obvious that the more closely to a horizontal line the brace-rod is arranged the greater the resistance of the same will be proportionately.

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

The combination, with the land-side and plow-beam, of a broad flat standard, having its upper end turned at right angles to its body, and secured to the plow-beam by two bolts, and a brace-rod, having one end secured to the inner surface of the mold-board and the opposite end secured to the inner or land-side of the plow-beam, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of June, 1877.

THOMAS BURTON JONES.

Witnesses:

ALEXANDER R. JONES,

WILLIAM M. RIGGIN.