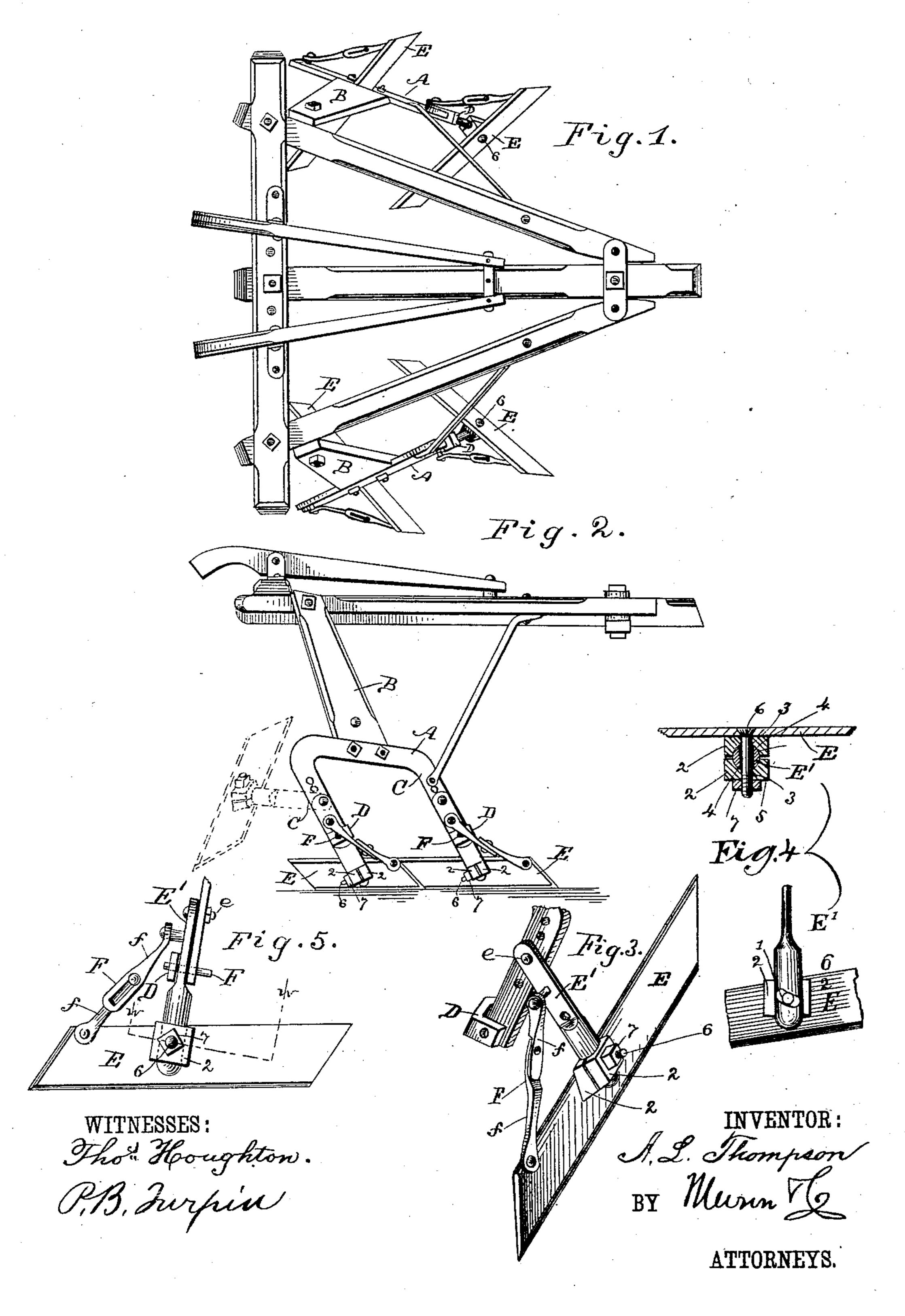
## A. L. THOMPSON:

PLOW.

No. 360,627.

Patented Apr. 5, 1887.



## United States Patent Office.

ANDREW LUES THOMPSON, OF MILLBROOK, ILLINOIS.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 360,627, dated April 5, 1887.

Application filed July 8, 1886. Serial No. 207,487. (No model.)

To all whom it may concern:

Be it known that I, ANDREW LUES THOMPson, of Millbrook, in the county of Kendall and State of Illinois, have invented a new and use-5 ful Improvement in Plows, of which the following is a specification.

My invention is an improvement in plows and cultivators; and it consists in certain novel constructions and combinations of parts, as

13 will be described.

In the drawings, Figure 1 is a top plan view of a plow provided with my improvements. Fig. 2 is a side view thereof. Fig. 3 is a detail perspective view of the lower end of one 15 of the standards of the supporting-bar, the blade and braces thereof being also shown. Fig. 4 is a detail view showing the connection between the blade and its stem, and illustrating the bolt-hole in the said stem; and Fig. 5 20 is a detail view showing the sectional brace,

blade and lower end of standard.

The supporting-bar A is secured, usually, by bolts, as shown, to the beam B or other suitable frame or support. At each end this bar 25 is provided with depending forwardly inclined standards C, which are similar in construction. The lower ends of these arms are provided with boxes or loop-keepers D, which are arranged laterally to and on the outside of 30 the standards. These keepers open toward the rear and are fitted to receive the shanks E' of the blades or shovels E. These shanks are pivoted at e to the standards above the keepers. I preferably provide each shank 35 with a plurality of holes for the pivot e, so such shovels may be set higher or lower, as desired. Pins F, of wood or other fragile material, are passed through openings in the outer walls of the keepers, thence through coincident 40 openings in the shanks E' and the standards.

In operation, when the blades meet large stones, roots, stumps, or other obstructions, the unusual strain on the blade will break the fragile pin, and the blade and its shank will 45 turn back to its dotted position, as shown in Fig. 2, and the obstruction will be passed without damage to the metal of the supports, and the fragile pins can be conveniently replaced. By making the two standards on a common 50 support the fastening of such parts to the

beam is facilitated.

It will be noticed, especially from Fig. 1, that the framing secures the supporting-bars A at angles to the line of draft or motion, and in the construction shown the two supports are 55 arranged at such angles to each other that the draft is evened and all side motion is avoided.

It is preferred to brace the blade from its stem by a brace, F, made in sections f, united at one end by an adjustable joint, and having 60 their opposite ends secured the one to the blade near the end of the latter and the latter to the blade-stem. By this construction the blade is braced, and by adjusting the sections f the blade may be set to and held at any de- 65 sired angle. It is also preferred to unite the blade with its stem in the manner and by the construction shown in Fig. 4. In carrying out this feature of my invention a bolt-hole, 1, is formed through the lower end of the stem, 70 and is elongated transversely. Washer-blocks 2, having perforations 3 coincident with hole 1, are placed on opposite sides of the stem. These blocks have concave faces 4 and flat faces 5, the former conforming to the surface of the 75 stem, as shown. The securing-bolt 6 is now passed through the blade, the blocks, and the stem, and secured by nut 7, by tightening which the blade may be secured at any point of adjustment permitted by the elongation of 80 the opening 1, and this nut also co-operates with the brace F in securing the blade in its adjustment on the bolt 6 as a pivot.

Having thus described my invention, what I claim as new is—

1. In combination with the stem and the cultivator-blade pivotally secured thereto, the brace formed in sections, joined adjustably and connecting the cultivator-blade and its stem, substantially as set forth.

2. The combination of the stem having bolthole 1, the cultivator-blade, the bolt 6, the nut 7, and the brace F, formed in sections, adjustably united and connecting the cultivatorblade with its stem, substantially as set forth.

ANDREW LUES THOMPSON.

Witnesses:

JOHN LAUSON, JAMES J. VAN DUZER.