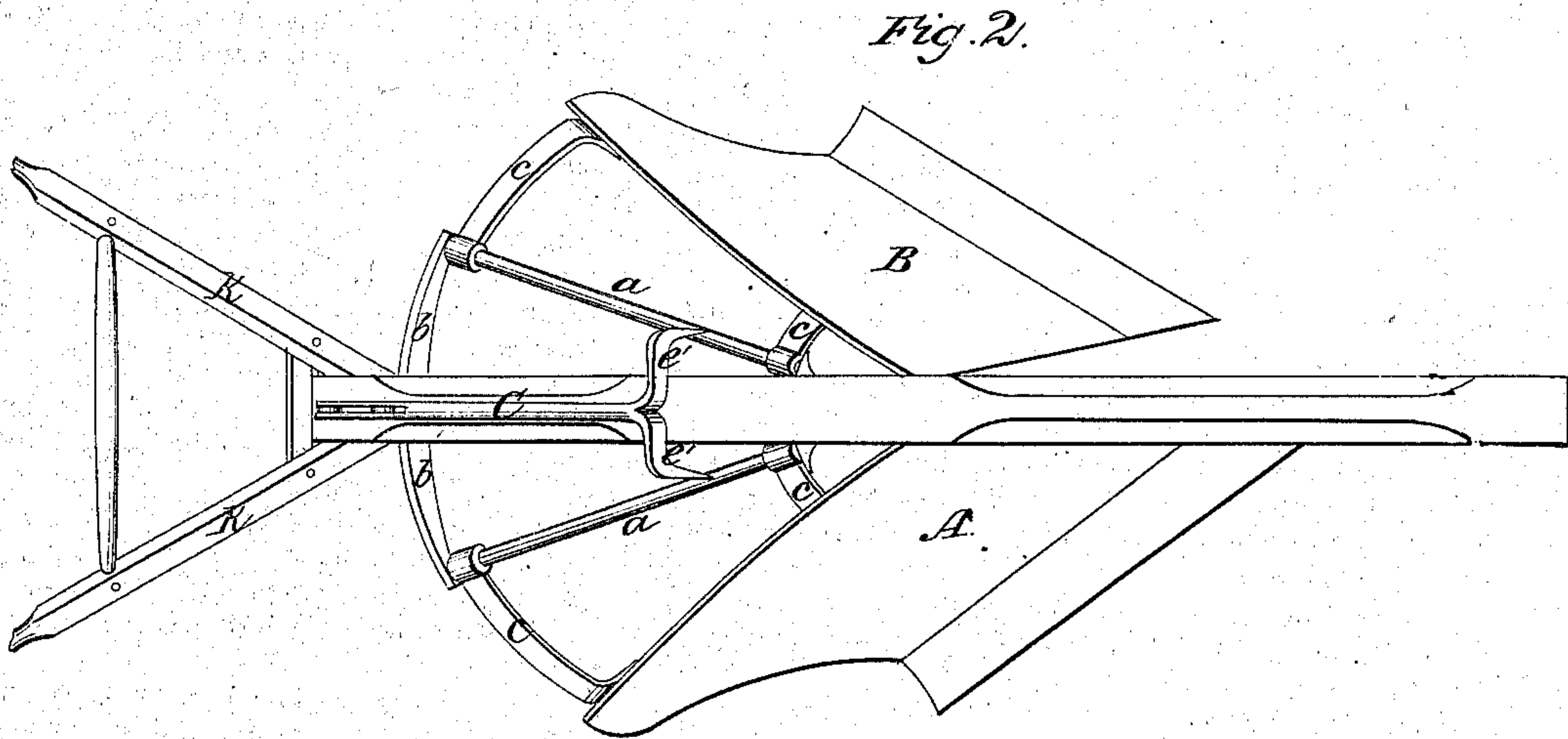
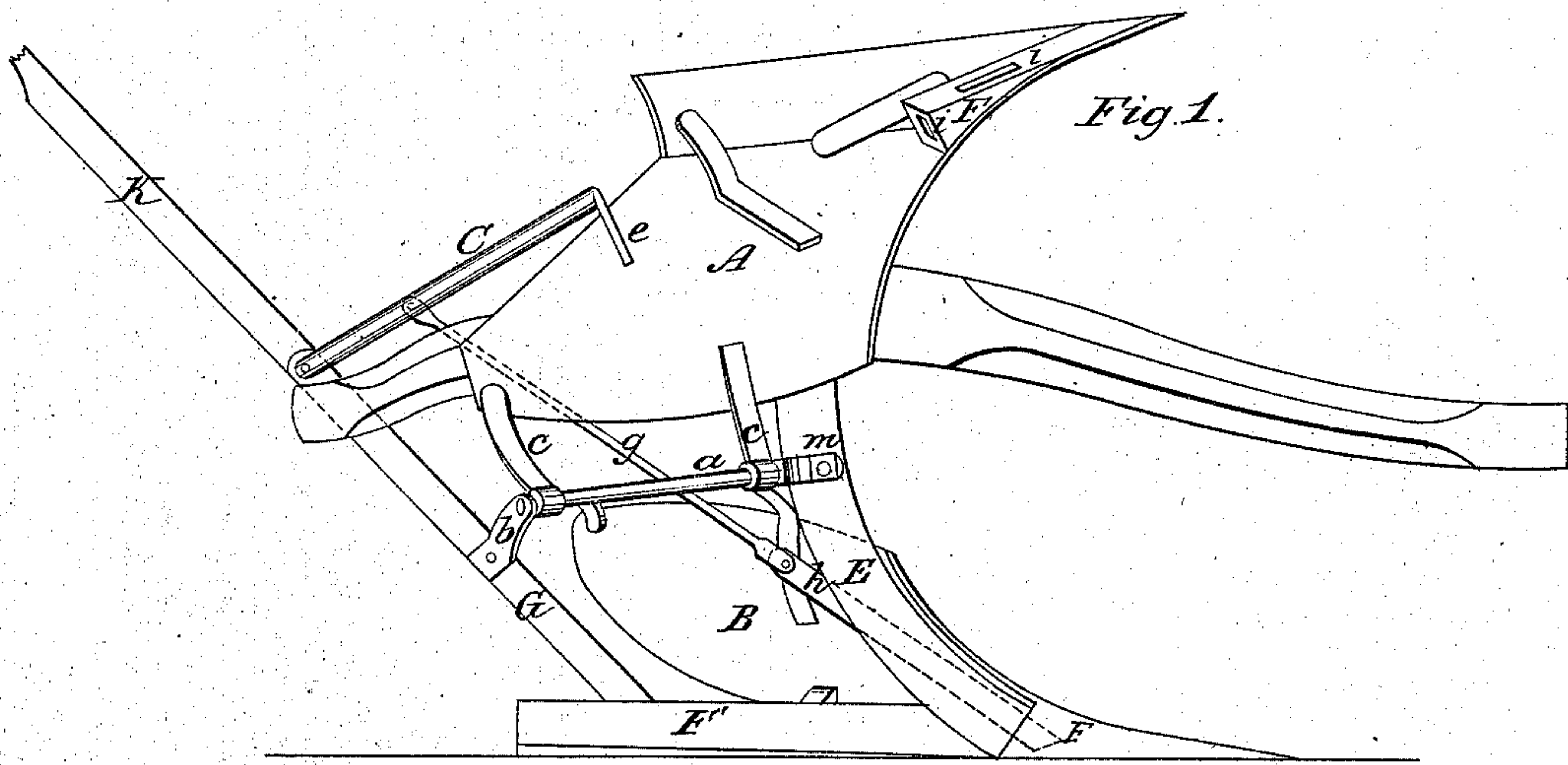


*I. & H. H. Scoville.*

*Plow.*

*N<sup>o</sup> 89,796.*

*Patented May 4, 1869.*



*Witnesses.*  
*J. W. Boone*  
*A. J. Dewey.*  
*Geo. H. Strong.*

*Inventors.*  
*Ives Scoville*  
*Hiram H. Scoville*  
*By Dewey & Co.*  
*attys.*



# United States Patent Office.

IVES SCOVILLE AND HIRAM H. SCOVILLE, OF OAKLAND, CALIFORNIA.

Letters Patent No. 89,796, dated May 4, 1869.

## IMPROVEMENT IN SIDE-HILL PLOW.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, IVES SCOVILLE and HIRAM H. SCOVILLE, of Oakland, county of Alameda, and State of California, have invented an Improved "Side-Hill Plow;" and we do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use the said invention or improvements without further invention or experiment.

Our invention relates to that class of plows known as side-hill plows; and

It consists in providing two mould-boards, one to be used to convert it into a right-hand, and the other a left-hand plow.

The mould-board which is not in use is turned up against the plow-beam, on the opposite side from the plow to be used, and locked in that position by a lever, which operates a bar, which, in turn, locks the plow to be used in its proper position on the standard.

It also consists in attaching the handle of the plow to a metal bar, which rises from the rear of the landside.

The plows are operated independently, and are mounted on shafts, which stand at an angle to each other.

Either of the mould-boards can be removed, and thus leave the plow single.

To more fully illustrate and explain our invention, reference is had to the accompanying drawings, and letters marked thereon, forming part of this specification, of which—

Figure 1 is a side view, with one plow elevated.

Figure 2 is a top view, with one plow down, and the other partially so.

Similar letters of reference indicate like parts in each of the drawings.

A and B are two mould-boards of a plow, hung upon the two angularly-placed axes *a a*, so that they can be raised or lowered, as desired.

The rods are bolted to the standard in front, and at the opposite ends they are upheld by two arms, *b b*, which extend out from the metal bar *G* sufficiently to allow the plows, when lowered, to stand in the proper position.

Arms *c c* are attached to the top of the mould-board, and clasp the rods *d d* loosely, so as to allow the mould-board to be turned up or lowered, as desired.

The mould-board which is not in use is upheld by one of the hooks, *e e*, on the end of the lever *C*.

These hooks are formed by splitting the end of the lever, and bending the separate pieces in opposite directions, and forming their ends into hooks, one of which serves for upholding the mould-board on each side.

The opposite end of the lever *C* is slotted, inside of which the upper end of the metal bar *G* is pivoted, allowing the lever to be moved up and down, forming, at this point, its fulcrum.

A rod, *g*, is also pivoted in this slot, between the fulcrum and hooked end, which is attached to and operates a bar, *h*, which passes through the standard *E*, toward the point of the plow, and enters a slot, *i*, in the toe of the landside *F*, which is attached to the mould-board.

The bar *h* is operated by the lever *C*, and, when it is raised, to release the mould-board, which is carried at the top, it also releases the one which is in position, ready to change the plowing side.

The bar *G* has one end secured in a slot in the heel of the landside *F*, and passes up through a slot in the rear end of the plow-beam; and the handles *K K* are bolted to it midway between the beam and landside.

The advantages of this plow are, that, by carrying the extra mould-board on the beam, as described, the weight is evenly divided, and does not all come on one side, as when the mould-board is merely reversible. Neither does it interfere, in any way, with the plowing, as the person who holds the plow can see his furrow, and thus be able to handle it better.

The mould-boards can be quickly changed, with little trouble to the person plowing.

When it is desirable to use a single plow, as on level ground, one of the plows, *A* or *B*, may be quickly removed, by loosening the nut *m*, after which the rod *a* can be removed with the plow, which is connected with it, thus leaving a single plow for ordinary work.

Having thus described our invention,

What we claim, and desire to secure by Letters Patent, is—

1. The angularly-placed removable axes *a a*, arms *b b* and *c c*, for elevating and lowering the mould-boards, and holding their position, substantially as described.

2. The lever *C*, hooks *e e*, rod *g*, and bar *h*, operating in the slotted standard *E* and slots *i*, the whole arranged substantially as and for the purpose described.

3. The two plows *A* and *B*, operating independently of each other, and turning up against opposite sides of the beam, and mounted on the angularly-placed axes *a a*, substantially as described.

In witness whereof, we have hereunto set our hands.

IVES SCOVILLE.  
HIRAM H. SCOVILLE.

Witnesses:

CHAS. H. EATON,  
J. LUPKIN.