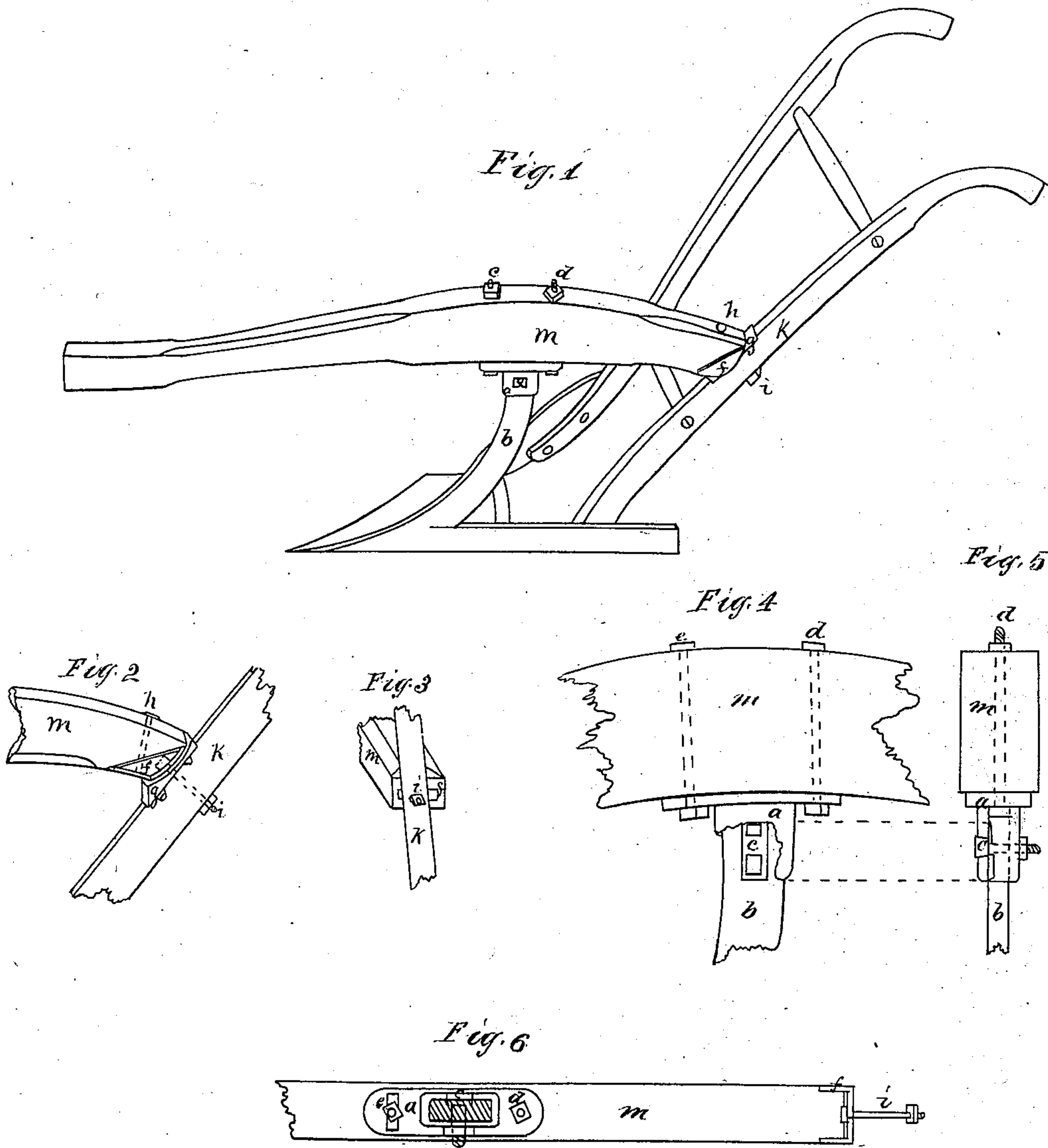


G. W. Cole.
Plow.

N^o 76714

Patented Apr. 14, 1868.



Witnesses

W. H. Haskell
D. F. Dunning

Inventor

Gideon W. Cole

United States Patent Office.

GIDEON W. COLE, OF CANTON, ILLINOIS.

Letters Patent No. 76,714, dated April 14, 1868.

IMPROVEMENT IN PLOUGHS.

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

Be it known that I, GIDEON W. COLE, of Canton, Fulton county, and State of Illinois, have invented a new and useful Improvement in the Manner of Constructing Ploughs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, in which—

Figure 1 is a perspective view.

Figure 2 is a view showing attachment of shoe *f* to beam *m*, and the connection between *k* and *m*.

Figure 3 is a view showing slot in *f*.

Figure 4 is a longitudinal elevation of standard *b* and beam *m*.

Figure 5 is a transverse section of *b* and *m* at same points shown in fig. 4.

Figure 6 is a view of under side of *m*, showing the adjustable cap *a* and slot in which works the bolt *e*.

The invention relates to an improved method of adjusting plough-beams both laterally and vertically, and consists in the use of an adjustable cap, secured to the upper end of the standard by a bolt passing through it, and working in a slot having an inclined depression to receive the head of the bolt, all arranged as hereinafter described and set forth.

It further consists in the use of a segment-faced shoe, secured to the lower corner of heel of the beam, and working on a plate attached to the handle, as hereinafter more fully described. Also, in pivoting the beam behind the standard, so that it has a greater horizontal adjustment.

To enable others skilled in the making of ploughs to use my invention, I will more particularly describe its construction and operation.

I provide an adjustable cap, *a*, with a perpendicular mortise to receive the standard *b*, and allow it to work freely therein. The standard is provided with a slot, having a depression, deepest at lower end, to receive the head of the bolt *c* as it passes through the cap, (see figs. 4 and 5.) The heel of the beam is provided with a segment-faced shoe, *f*, working on plate *g*, which is secured to handle *K*, so that the joint is not materially injured by any necessary perpendicular adjustment. The shoe *f*, secured to beam *m* by bolt *h*, is provided with a horizontal slot, in which the head of bolt *i* is secured. The beam is secured to the cap *a* by bolts *d* and *e*, pivoting on *d*, which, being in rear of standard, gives more scope to the front end of beam in proportion to movement of the rear end than when pivoting at the centre of standard.

The operation is as follows: The bolts *c*, *d*, *e*, and *i*, being loosened, the beam may be adjusted to any point within its scope, by bolts *c*, *e*, and *i* working in their slots, and the beam is held firmly in position by tightening the bolts. The head of bolt *c*, fitting in inclined depression, prevents the cap *a* from being raised when plough is at work.

I do not claim the lateral adjustment of the beam separately; but having described my invention,

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

1. The adjustable cap *a*, secured to standard *b*, as described, and operating substantially as set forth.
2. The segment-faced shoe *f*, working on plate *g*, as described, in combination with the cap *a*, or equivalent attachment, arranged substantially as and for the purposes set forth.
3. I claim the combination of the vertical and lateral adjustment of the beam, when the different parts are constructed and operated substantially as set forth and described.

GIDEON W. COLE.

Witnesses:

W. H. HASKELL,

B. F. DUNNING.