

F. C. SMITH.

Plow-Colter.

No. 5,526,

Patented Apr. 25, 1848.

Fig. 1.

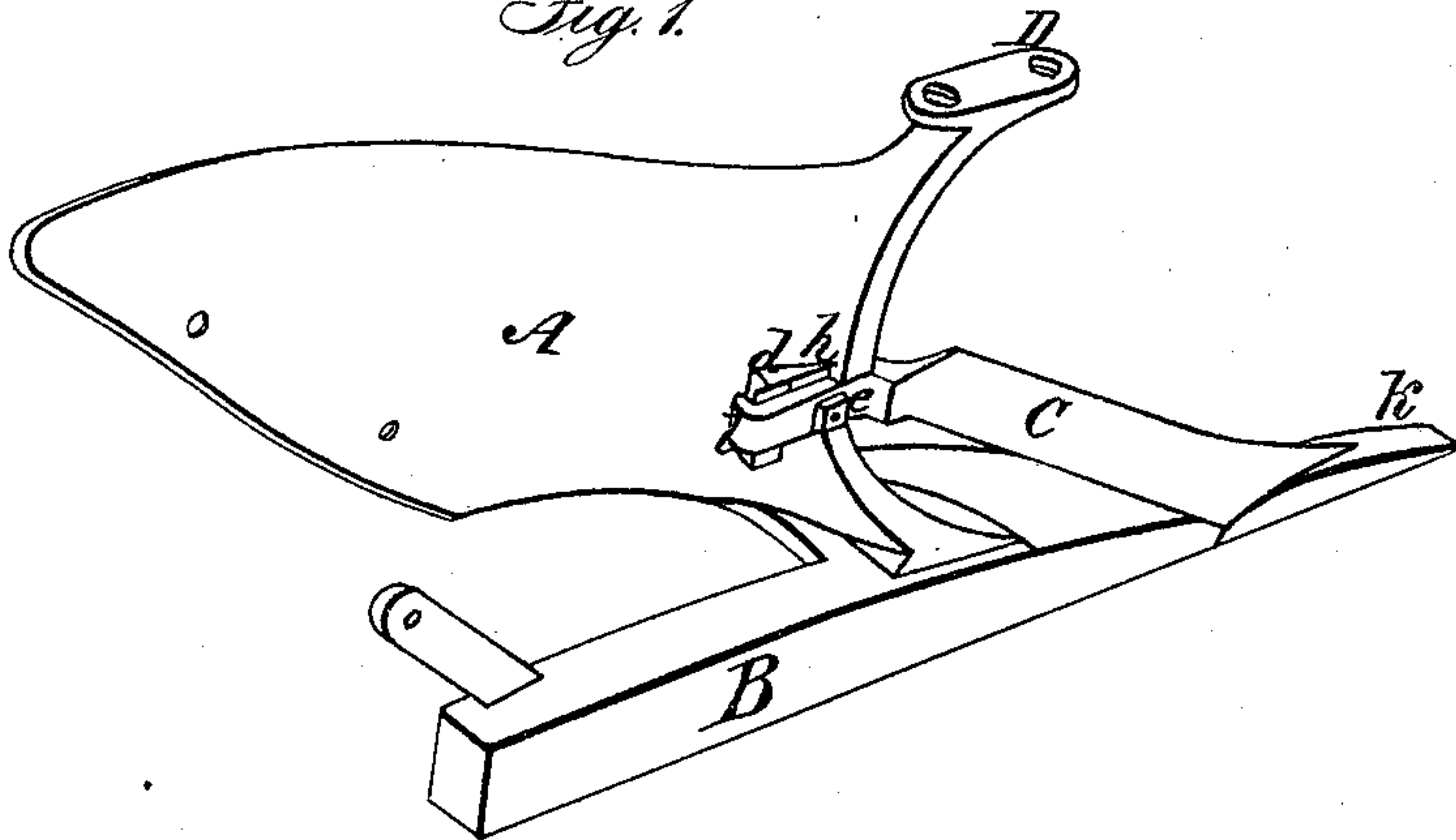


Fig. 2.

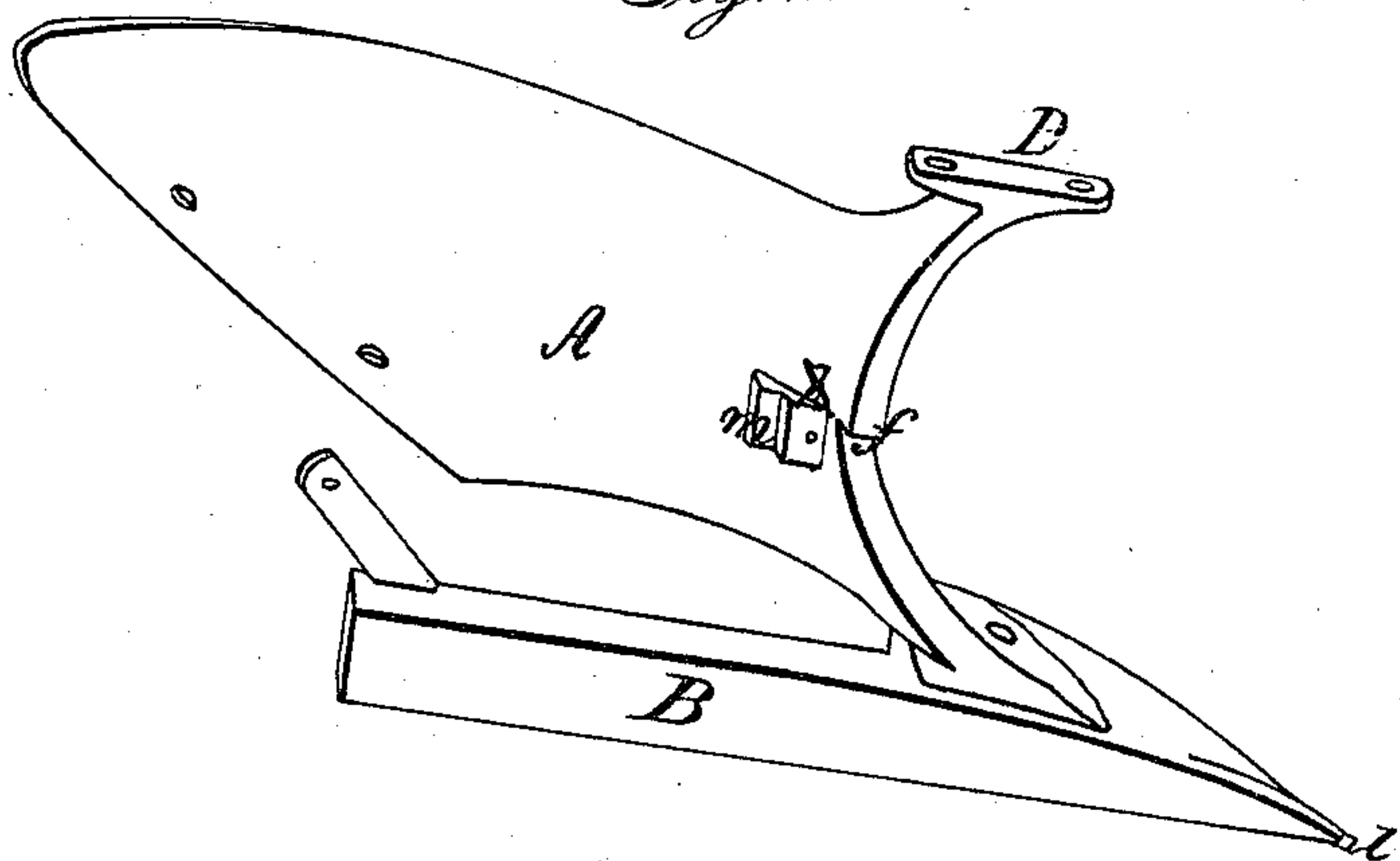
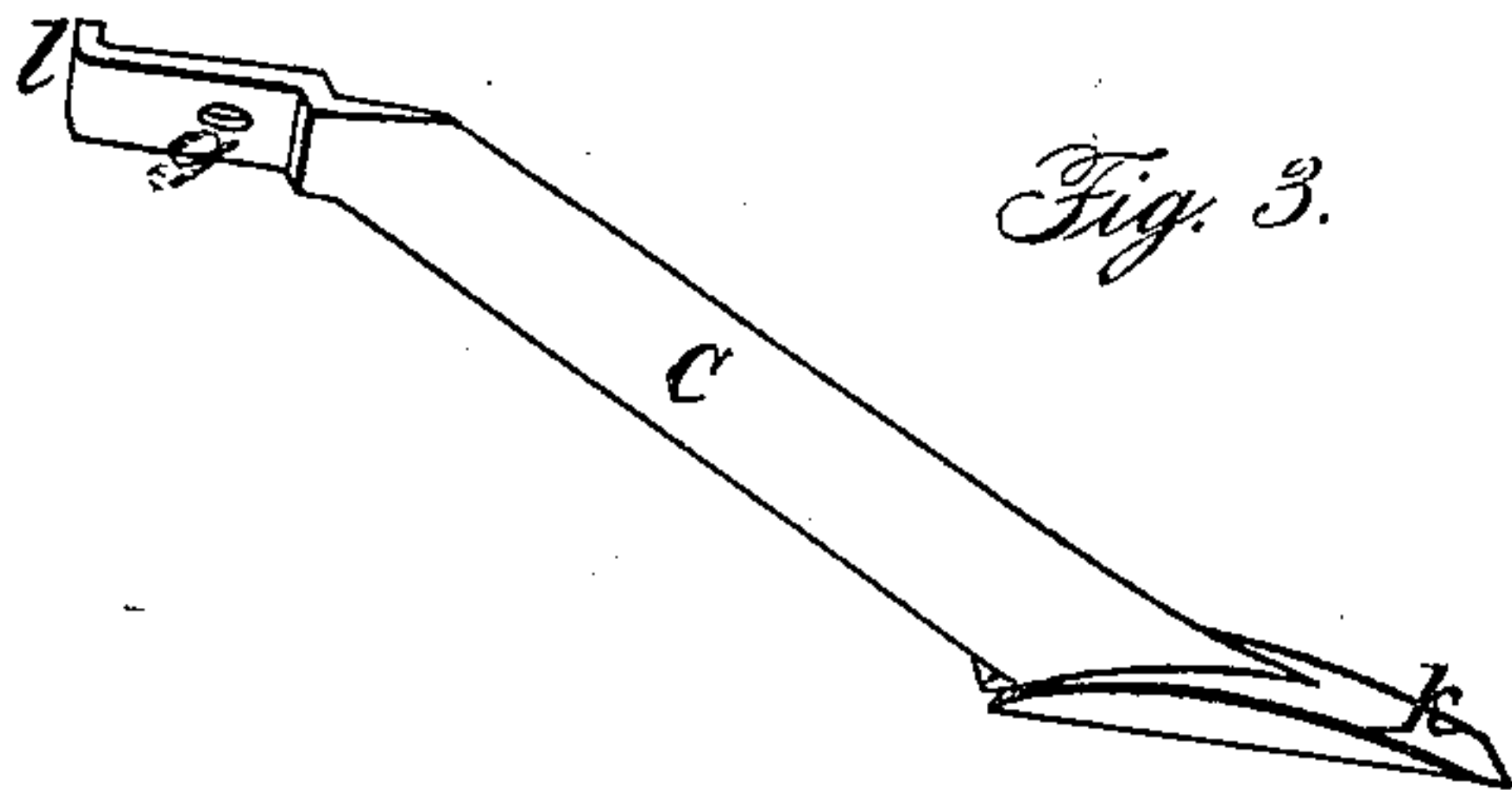


Fig. 3.



UNITED STATES PATENT OFFICE.

FREDERICK C. SMITH, OF HARPER'S FERRY, VIRGINIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 5,526, dated April 25, 1848.

To all whom it may concern:

Be it known that I, FREDERICK C. SMITH, of Harper's Ferry, in the county of Jefferson and State of Virginia, have invented a new and Improved Plow, which I denominate the "Brace-Colter Plow;" and I do hereby declare the following to be a full, clear, and exact description of the construction and operation thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the mold-board, share, and colter of my improved plow, united to each other and detached from the beam and handles. Fig. 2 is a perspective view of the share and mold-board united to each other and detached from the other parts of the plow, and Fig. 3 is a perspective view of the colter detached.

The nature of my invention consists in the combination of a colter with the share and mold-board in such a manner that the colter serves not only the purpose of a colter, but also as a cutting-edge at the front of the mold-board and as a supporting-brace for securing the share and mold-board to each other.

Similar letters refer to corresponding parts in all the figures.

A is the mold-board. B is the share, and C is the colter. D is a plate on the standard, rising from the front edge of the mold board, to which the beam is attached.

The colter C is inclined at an angle of about thirty six degrees. Its lower end terminates in the horizontal point *k*.

The colter is secured to the mold board and share as follows: A mortise or socket is formed in the rear end of the point *k* for the reception of a tenon or point, *i*, on the front end of the share.

f is a shoulder on the inner side of the front edge of the mold-board.

h is a lug cast on the inner side of the mold-board immediately in the rear of the shoulder *f*. The point or tenon *i* having been inserted in the socket at the rear end of the point *k*, the

horizontal shank at the upper end of the colter is passed under the shoulder *f* and is secured to the lug *h* by the screw-bolt *e*.

l is a lip at the rear end of the horizontal shank of the colter.

m is a recess in the lug *h* for the reception of the key or wedge *d*.

g is a slot in the horizontal shank of the colter, through which the screw-bolt *e* passes. The key *d* presses against the lip *l* at the rear end of the shank of the colter, and in combination with the screw-bolt *e* and the shoulder *f* confines the mold-board to the point of the share in so perfect a manner as to impart great stiffness and strength to the combined mold-board, share, and colter. The point at which the colter is secured to the mold-board is just above its rubbing-surface, and it projects out in front of the mold-board a sufficient distance to prevent the rubbish and trash as it passes up over the colter from accumulating on the front edge of the mold-board. In practice it is found that no rubbish adheres to the inclined colter or mold-board to obstruct the progress of my brace-colter plow; but it is all discharged and covered by the furrow.

Having thus fully described the construction and operation of my self-clearing brace-colter plow, what I claim therein as new, and desire to secure by Letters Patent, is—

The combination of the inclined self-clearing colter and point (in one piece) with the share and mold-board in such a manner that the colter serves not only the purpose of a colter, but also as a cutting-edge for the mold-board and a supporting-brace for giving stiffness and strength to the share and mold-board, substantially as herein set forth, not confining myself to the identical manner of accomplishing this object, as herein set forth, but to something substantially the same.

F. C. SMITH.

Witnesses:

Z. C. ROBBINS,

GUY C. HUMPHRIES.