

NEIDICH & GIRVIN.

Cultivator.

No. 30,751.

Patented Nov. 27, 1860.

Fig. 4.

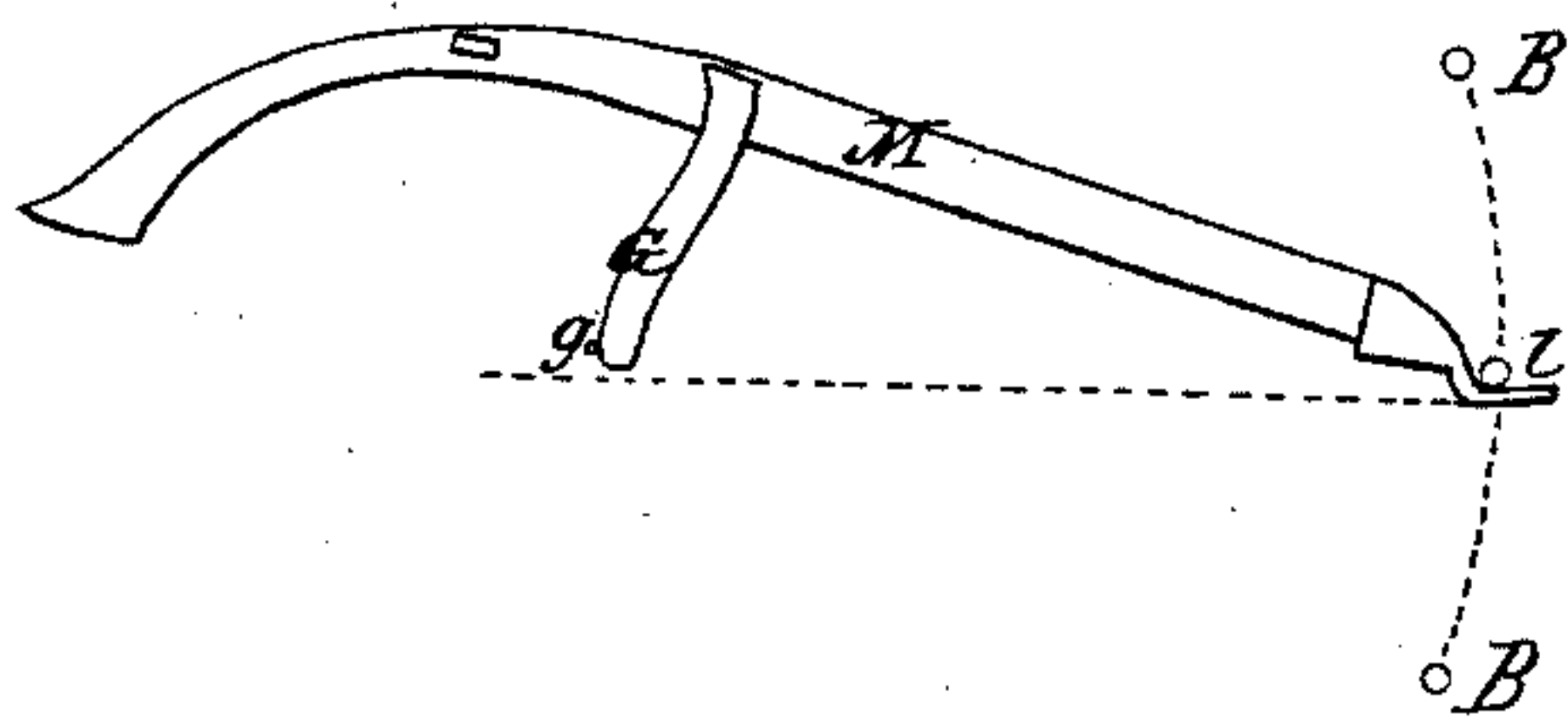


Fig. 1.

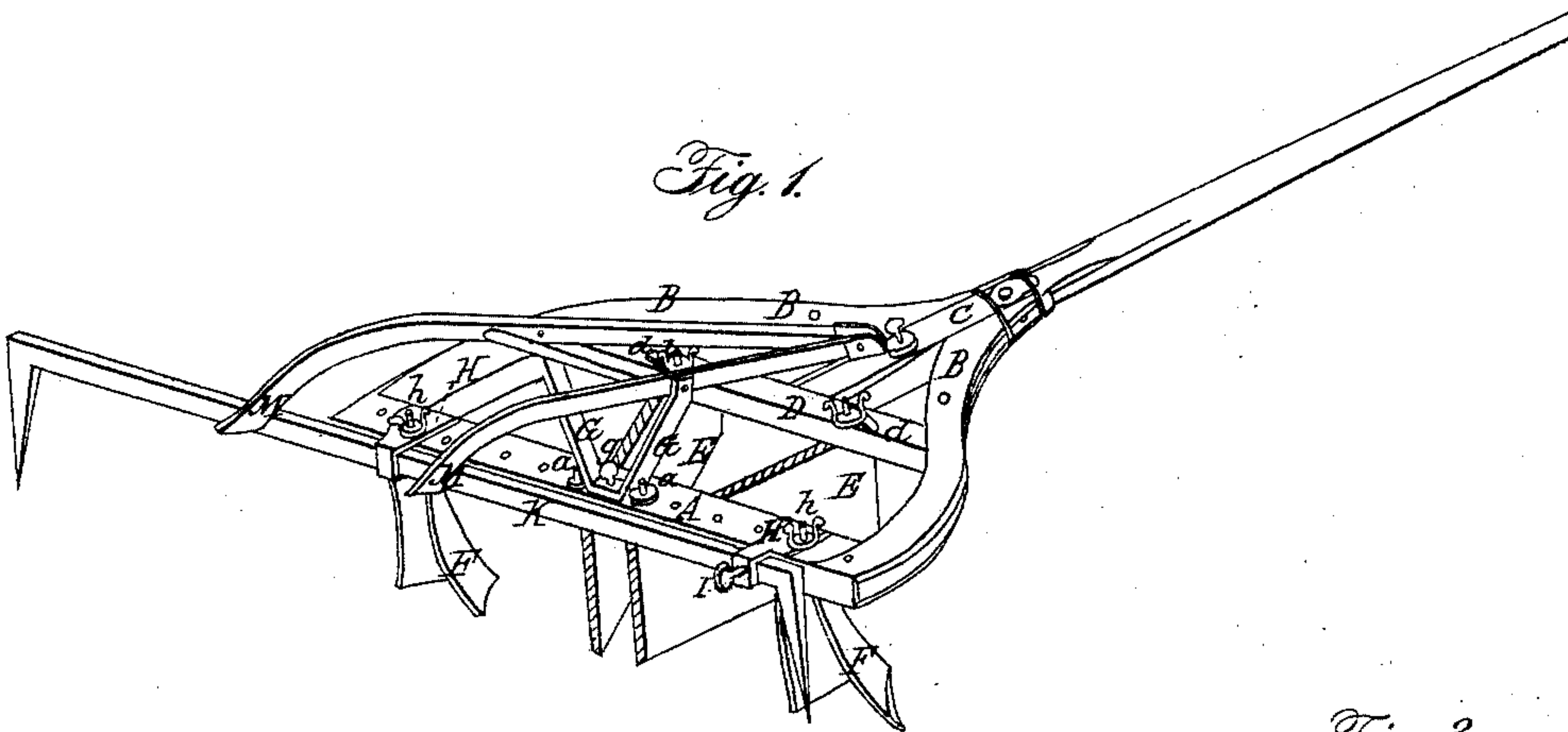


Fig. 3.

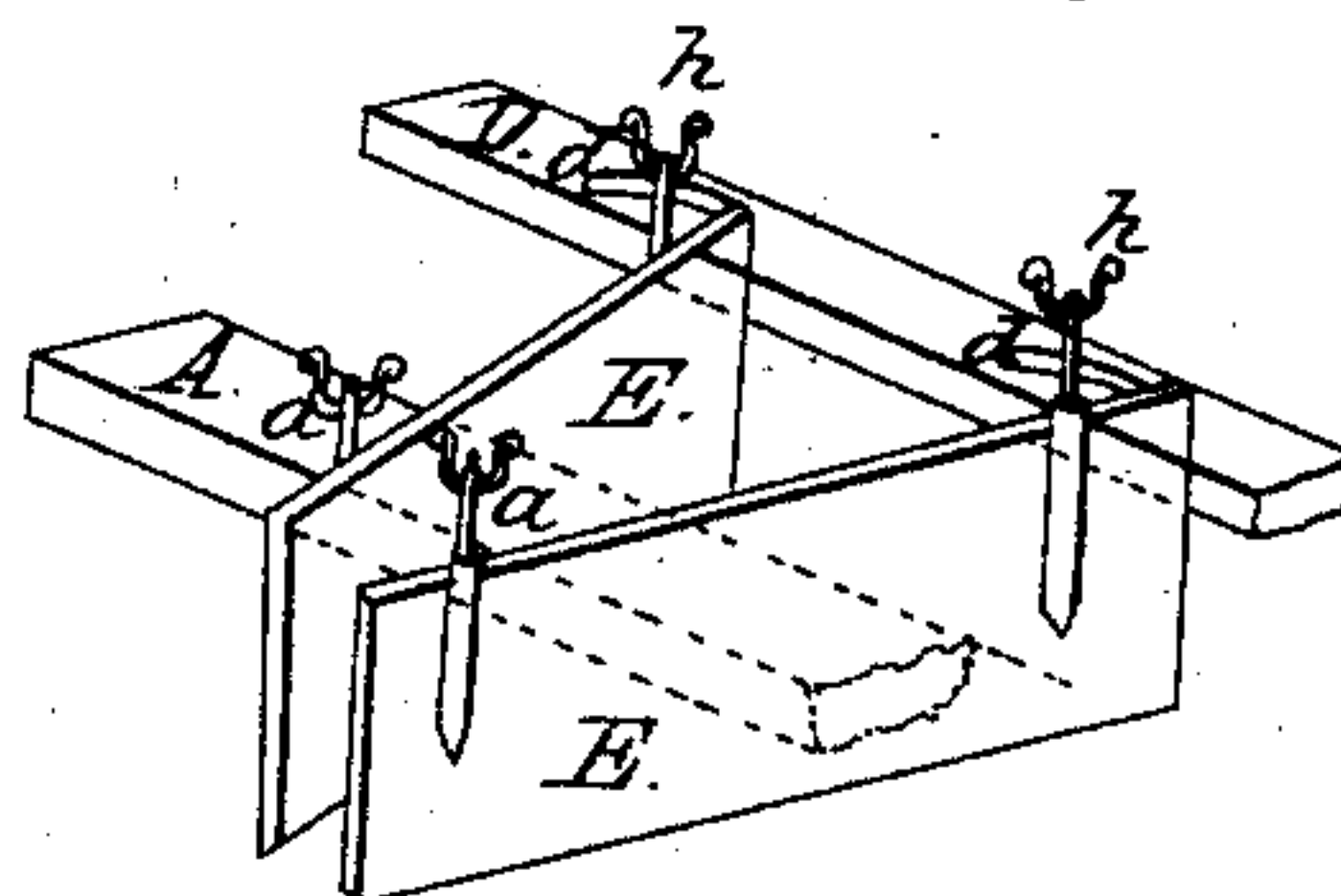
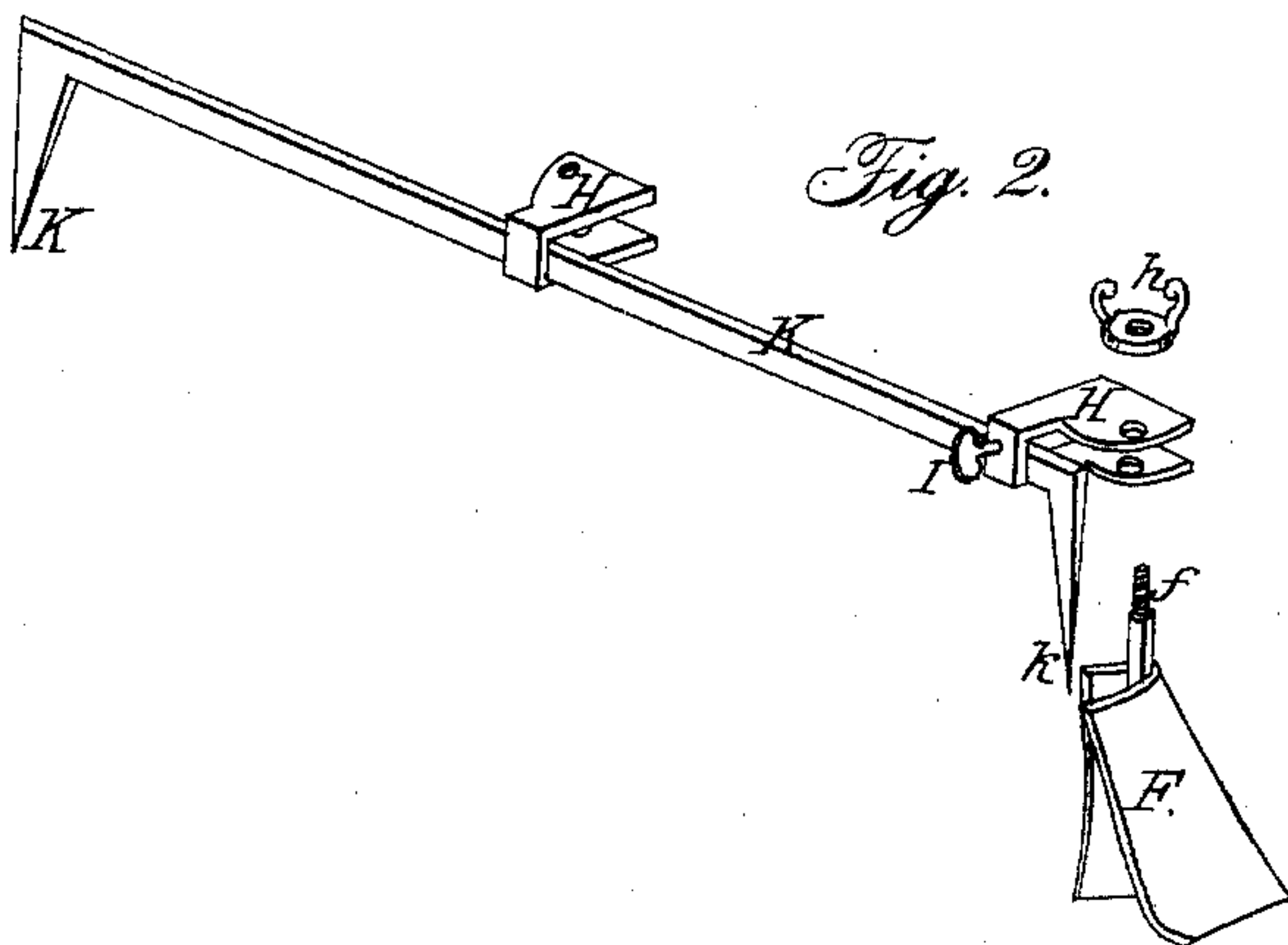


Fig. 2.



Witnesses:

S. G. Mussen
Jacob Stauffer

Inventor:

John Neidich
Elisa K. Girvin

UNITED STATES PATENT OFFICE.

J. NEIDICH AND E. R. GIRVIN, OF LANCASTER COUNTY, PENNSYLVANIA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **30,751**, dated November 27, 1860.

To all whom it may concern:

Be it known that we, JOHN NEIDICH and ELIM R. GIRVIN, of the county of Lancaster and State of Pennsylvania, have invented a new and useful Improvement on Corn-Cultivators; and we 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 accompanying drawings and letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a perspective view of the cultivator with the several parts in place. Fig. 2 shows the guiding-rod and slide-plates detached; Fig. 3, the central scrapers and adjustable slots in cross-piece D and attachment on A. Fig. 4 is a profile view of the handles and support G, moving on the pivot *g* to bring the end from C to B on either side, more fully described as follows:

The frame-work of this cultivator is adapted for the handles M to be thrown to the right or left by means of a pin, *g*, through the united base of the supports G on A, on which they turn, so as to bring the front plate over C or B on either side, where it may be bolted down, thereby adapting the handles for a central or right or left position, as circumstances may demand.

Against the rear edge of the cross-piece A is the horizontal gage or guide-bar K, with its pointers *k* at right angles, made to slide from end to end between the projecting ends of the plates H. These plates are widened and embrace the cross-piece above and beneath, and have holes for the reception of the projecting screw ends *f* of the shovels F. There are a series of graduated holes in the cross-piece A for said ends *f* to pass through, over which the plates H are placed and a female thumb burr or screw, *h*, to secure them, set on. By this means the shovels, together with or without the guide-rod affixed, can be set any desired width apart. When furrows are drawn by the two shovels the gage-rod K is set to the exact distance apart of the furrows, and thus indi-

cates the exact distance between the next two furrows, to be drawn on either side desired, thereby enabling the operator to draw all his furrows parallel to each other at an equal distance apart with ease. The guide-rod can be dispensed with when the machine is used for dressing corn after it is up. The shovels may be brought sufficiently close to work up the soil on either side of a single row. For drawing the furrows said guides K are of essential service. There is a binding-screw, I, in one of the plates H, to keep the rod in place when set to the required gage.

The frame-work is adapted for a pair of scrapers, E, Fig. 3, if desired, but makes no part of this application, and is an arrangement simply showing that it may be easily applied for weeding between the rows should such be preferred to the shovels, which latter are easily removed, as are the scrapers also, neither interfering with the other. We do not claim the scrapers; such are common.

We are also aware that markers are used centrally hinged or pivoted; but such do not meet the desired object. We are not aware that handles pivoted like ours are in use, yet we deem it prudent not to claim such.

Altogether this cultivator, in its general arrangement, meets the desires of farmers generally, having various advantage over most others in use in its combination.

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

The gage or guide-rod K, with the sliding and binding plates H, set or binding screw I, in combination with the shovels F and their projecting screw ends *f*, secured on said plates by nuts *h* for adjustment, when made substantially in the manner and for the purpose specified.

JOHN NEIDICH.
ELIM R. GIRVIN.

Witnesses:

S. G. MUSSER,
JACOB STAUFFER.