

Plow-Fender.

Patented Jan. 3, 1860.

Fig. 1.

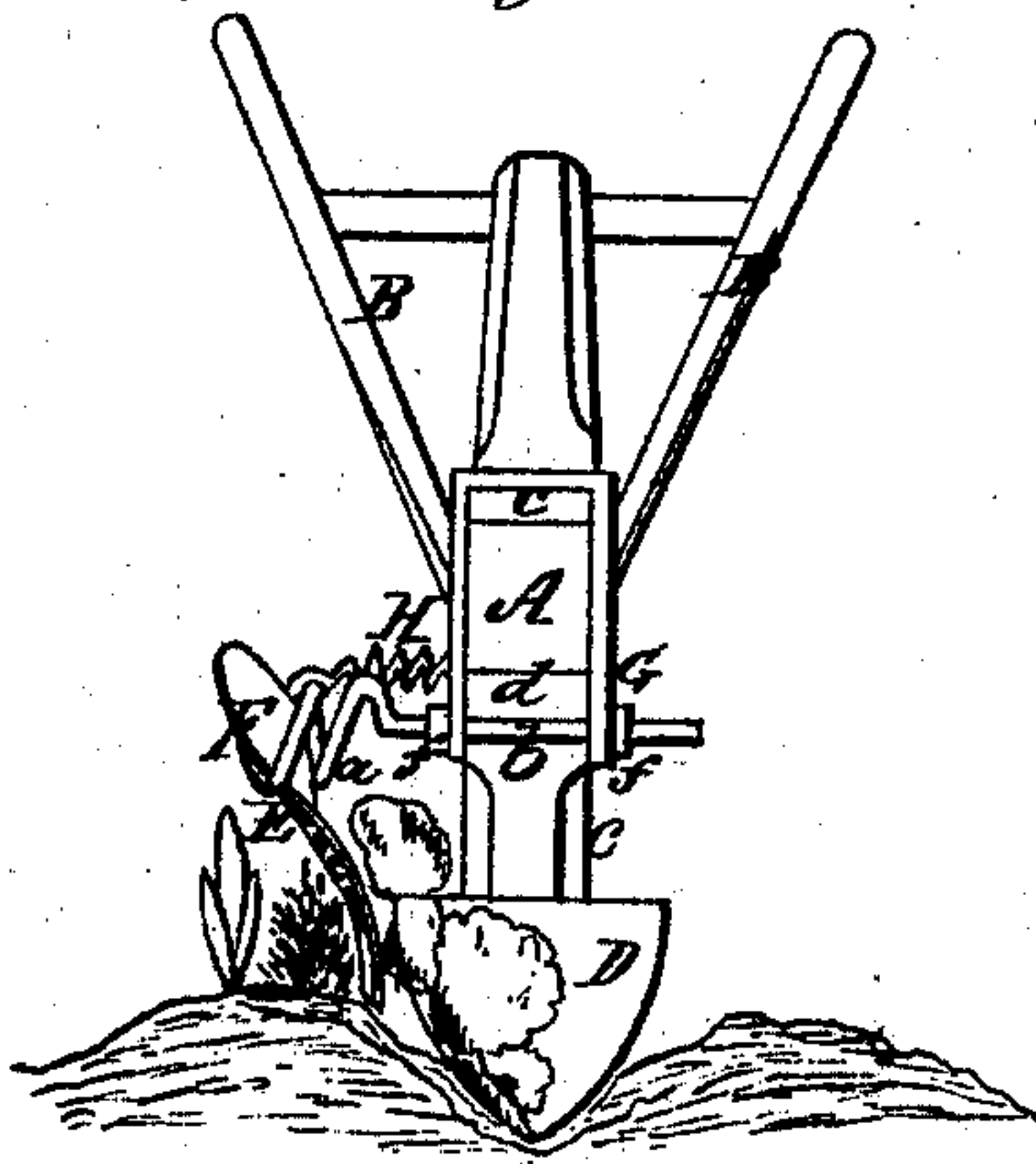


Fig. 2.

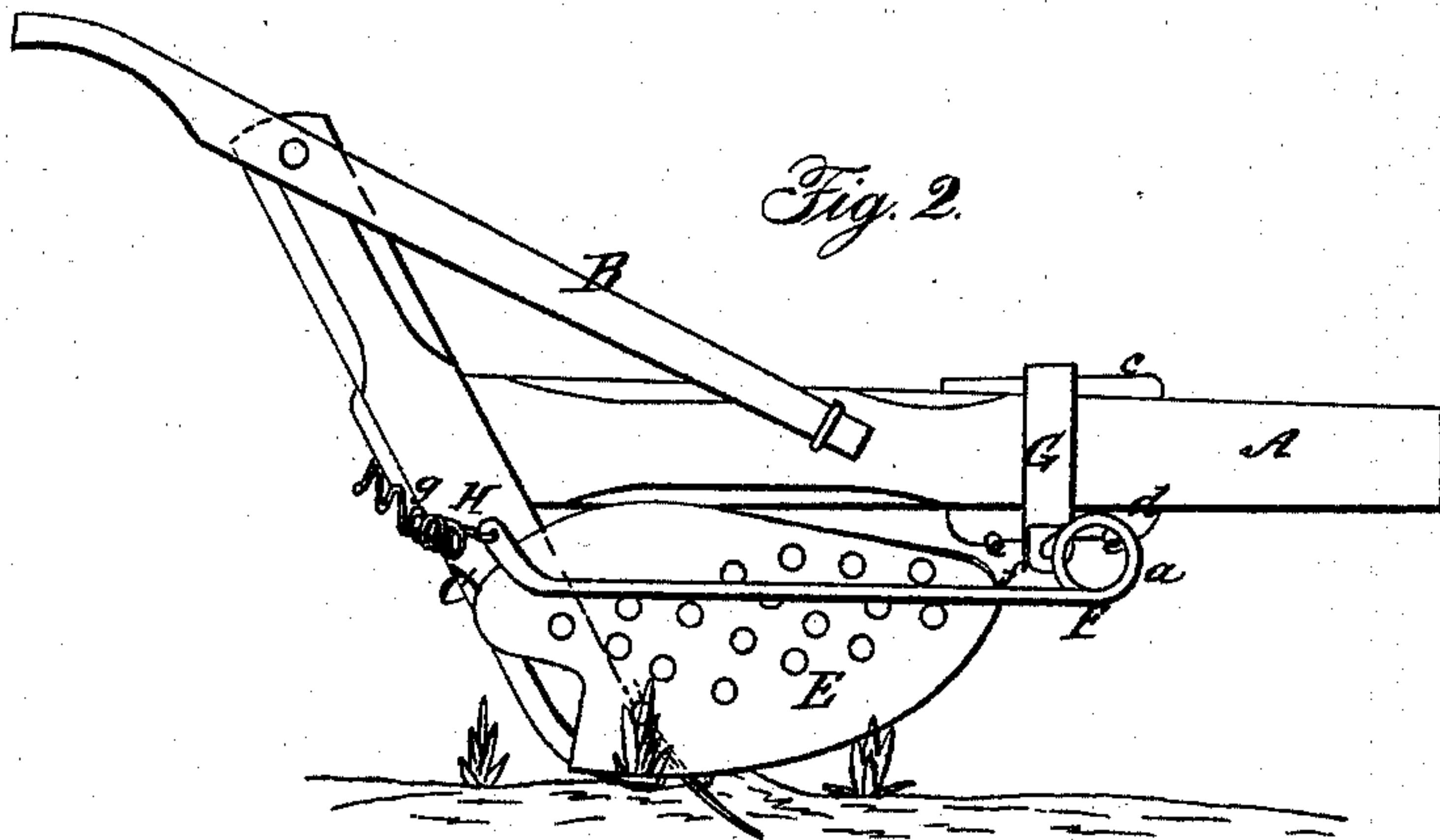
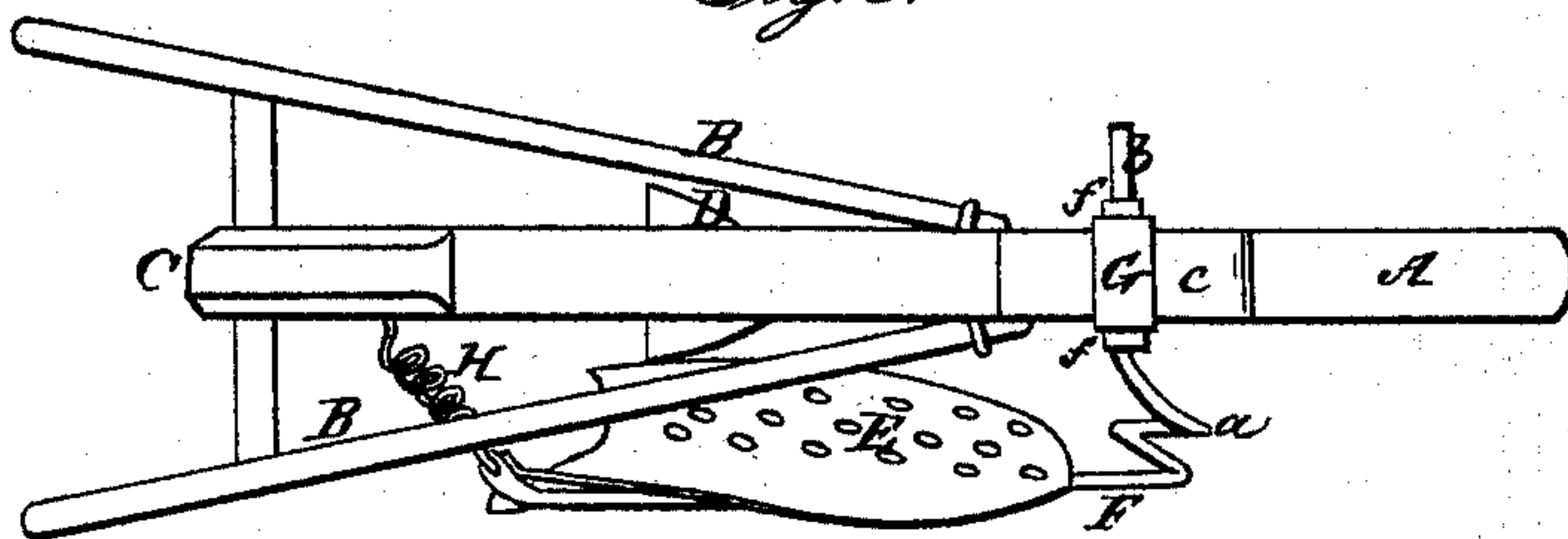


Fig. 3.



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IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 26,718, dated January 3, 1860.

To all whom it may concern:

Be it known that I, J. V. TAYLOR, of Dixon, in the county of Lee and State of Illinois, have invented a new and useful Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2, a front view of the same; Fig. 3, a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of my invention consists in the combination, with a cultivator-plow, of a shield, when said shield in its transverse section presents a *cyma-reversa*, or wave shape, and is perforated and suspended on the side of the cultivator by means of springs and an adjustable clip substantially in the manner and for the purpose hereinafter described.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the beam of a plow; B B, the handles; C, the foot to which the share D is attached. These parts are of usual construction, and therefore do not require a minute description. The share D may be of the usual shovel form, or a small mold-board share may be used, such as is generally employed for cultivating growing crops.

E is a shield, which may be constructed of sheet metal. This shield is curved or bent similar to the mold-board of a plow, gradually curving outward and upward and inward again toward its back end. The shield when viewed sidewise has its front part of elliptical form, or approximating thereto, as shown clearly in Figs. 1 and 3, its back end being curved, as shown in the figures aforesaid. This shield is perforated and is attached to a rod, F, the front part of which is coiled to form a spring, *a*, and the rod beyond the spring is at right angles to its other portion, as shown at *b*, and extends through the lower part of a clip, G, which encompasses the beam A, and two wedges, *c d*, one wedge, *c*, being on the upper surface of the beam and the other below it, the wedge *d* being notched or recessed transversely at three or more different points, as shown at *e*, in order to receive the part *b* of rod F, the part *b* being fitted in either of the recesses *e*. The part *b* of the rod F is secured to the clip G by two nuts, *f f*, both of which are shown in Figs. 2 and 3.

To the back end of the rod F a spiral spring, H, is attached, and this spring is connected to a hook, *g*, at the back part of the foot C.

The operation of the device is as follows: As the plow is drawn along the share D operates as usual, and the shield E is between the share D and the plants, the latter being shown in red. This shield prevents any large lumps of earth being thrown on the plants, but in consequence of being perforated it allows fine dirt to pass through to the plants, the lumps being thrown back toward the point of the share, as shown clearly in Fig. 2. The shield also gathers up and throws all projecting leaves of the plants toward them, so that they cannot, as hitherto, be buried or covered. By this arrangement, therefore, the plow can run very near the plants without danger of injuring them, and the plants will have fine fresh mold thrown up against them.

The coil-spring *a* admits of the shield giving or vibrating laterally under the action of the earth thrown against it by the share, and also admits of the shield yielding vertically as it comes in contact with the earth. This vibrating movement of the shield materially aids the passage of the fine earth through the shield, and, in fact, constitutes an important feature of the invention. The back spring, H, retains the back part of the shield in proper position and at the same time admits of the vibration described.

The clip G may be adjusted on the beam A at any desired point by lowering the wedges *c d*, and as the front part, *b*, of rod F may be secured in either of the recesses *e* in the lower wedge, *d*, it will be seen that the shield may be adjusted longitudinally at any desired point relatively with the share D.

By unscrewing the nuts *f f* the shield may be turned down or up or raised and lowered vertically, according to the depth of furrow required.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with a cultivator-plow, of a shield, E, when said shield in its transverse section presents a *cyma-reversa*, or wave shape, and is perforated and suspended at the side of the cultivator by means of springs *a* H and an adjustable clip, G, substantially as and for the purposes set forth.

J. V. TAYLOR.

Witnesses:

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