(No Model.)

P. F. CHAMBARD.

DITCHING SHOVEL.

No. 270,016. Patented Jan. 2, 1883.

Fig. 1.

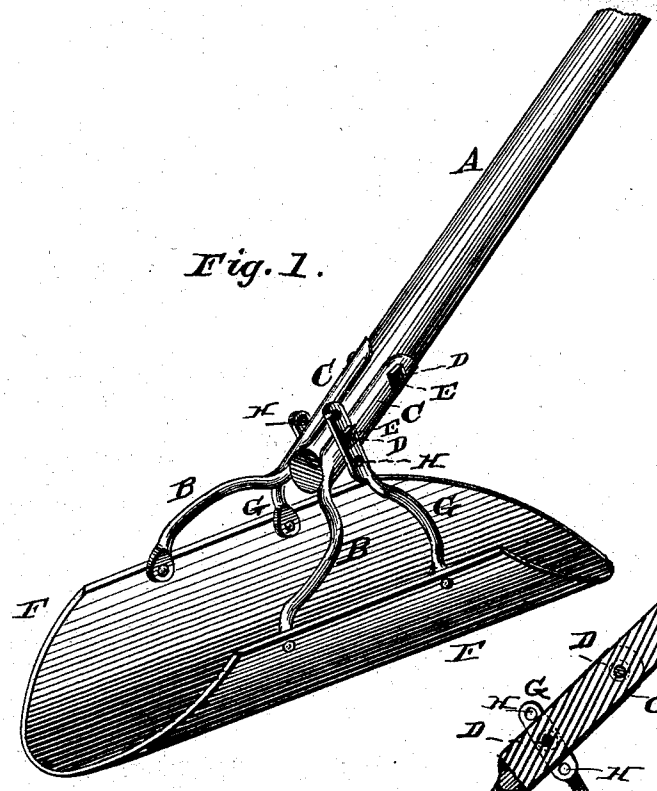


Fig. 2.

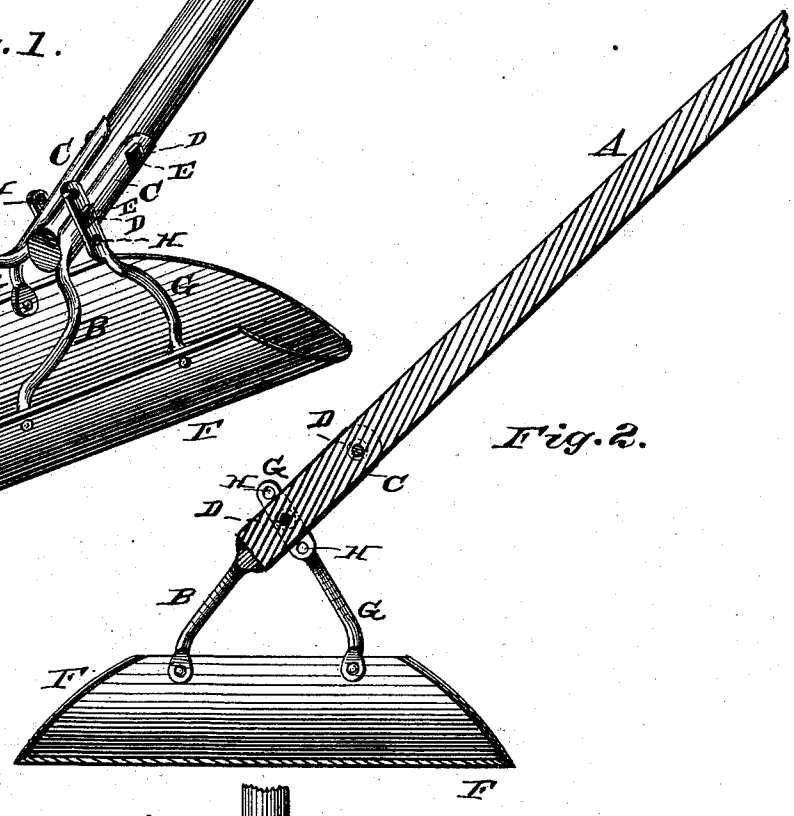
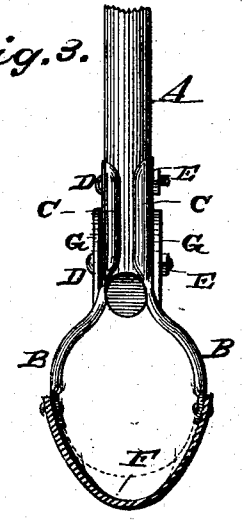


Fig. 3.



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UNITED STATES PATENT OFFICE.

PETER F. CHAMBARD, OF FAYETTE, OHIO.

DITCHING-SHOVEL.

SPECIFICATION forming part of Letters Patent No. 270,016, dated January 2, 1883.

Application filed August 31, 1882. (No model.)

To all whom it may concern:

Be it known that I, PETER F. CHAMBARD, a citizen of the United States, residing at Fayette, in the county of Fulton and State of Ohio, have invented a new and useful Ditching-Shovel, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a perspective view. Fig. 2 is a vertical sectional view, and Fig. 3 is a cross-section taken through the blade of the shovel.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an improved shovel for smoothing or finishing tile-ditches previous to laying the drain-tiles; and it consists in the construction and arrangement of parts constituting the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A represents the handle of my improved ditching-shovel, which is provided at its lower end with a bail consisting of two arms or brackets, B B, having curved clamping-plates C C at their upper ends, which fit closely against the sides of the handle, to which they are firmly secured by transverse bolts D and nuts E, or in any suitable manner.

F is the blade, which consists of a scoop formed by bending a flat plate, of suitable shape and dimensions, until it assumes a semi-elliptical shape in cross-section, as clearly indicated in Fig. 3 of the drawings, both ends of the blade being suitably curved and sharpened, as shown. The sides of the blade are pivoted near the front end to the arms B, by which it is thus connected to the handle.

G G are a pair of suitably-curved braces, which are pivoted to the sides of the blade near the rear end of the latter, the pivoting-points of said braces and of the arms B being equidistant from the center of the blade. The upper ends of the braces G are flattened and provided each with a series of perforations, H, by which they are adjustable upon the lower bolt D. The braces G, it will thus be seen, serve to secure the blade, which swings between the arms B B, rigidly at any desired angle or inclination in relation to the handle A.

The operation of my invention and its advantages will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. After a tile-ditch has been roughly dug, either by hand or by a ditching-machine, it is always necessary, or at least desirable, to smooth and finish it in order that the drain-tiles may be placed nicely and evenly therein with little trouble. By my improved ditching-shovel this may be readily accomplished. It may be used equally well by pushing or by drawing or pulling upon the handle; and by adjusting the blade in relation to the handle it may be used equally well for deep and shallow ditches. It is simple in construction and inexpensive. In case any of its parts—such as one of the arms B or braces G—break or become injured, it may be readily detached and replaced by a new one.

Another important feature of my invention is the semi-elliptical shape of the blade, by which the ditch is fitted equally well to drain-tiles of various sizes, smaller ones fitting in the bottom, while larger ones may be fitted snugly between the sides of the ditch.

I claim and desire to secure by Letters Patent of the United States—

The combination of the handle A, having arms B, the braces G, having perforations H, and connected to said handle adjustably by bolt D, and the trough-shaped scoop or shovel-blade F, pivoted to said arms B and braces G equidistantly from its center.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

PETER F. CHAMBARD.

Witnesses:

N. L. COLLAMER,

CHAS. K. ALLEN.