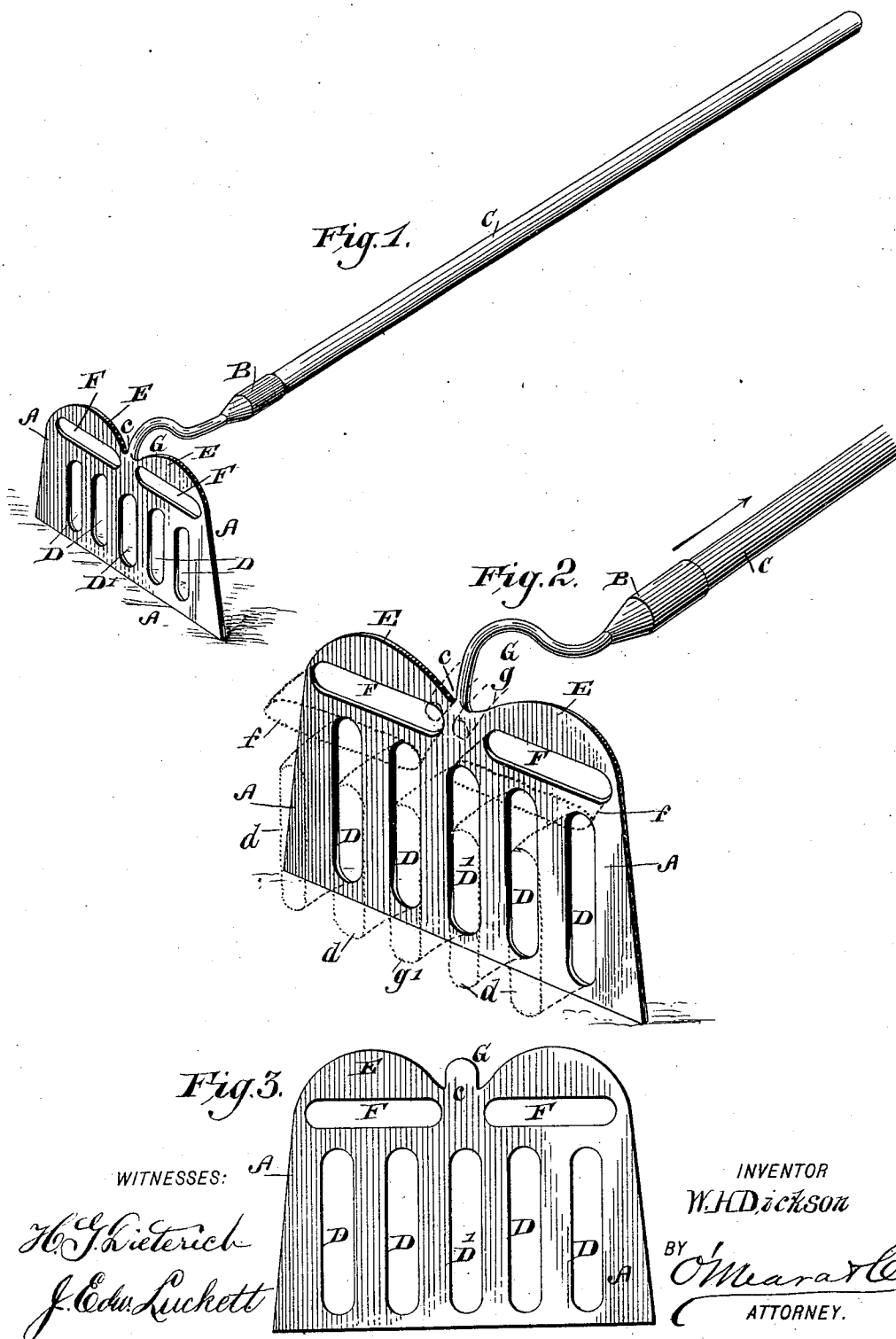


(No Model.)

W. H. DICKSON.
MORTAR HOE.

No. 565,379.

Patented Aug. 4, 1896.



UNITED STATES PATENT OFFICE.

WILLIAM H. DICKSON, OF LACLEDE, MISSOURI.

MORTAR-HOE.

SPECIFICATION forming part of Letters Patent No. 565,379, dated August 4, 1896.

Application filed September 24, 1895. Serial No. 563,527. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. DICKSON, residing at Laclede, in the county of Linn and State of Missouri, have invented a new and Improved Mortar-Hoe, of which the following is a specification.

My invention primarily has for its object to provide a mortar-mixing hoe of a simple and inexpensive construction, which will serve to cut and mix the mortar much finer and uniform than can be done by the common mortar-hoes.

My invention also has for its object to provide a hoe of this kind which makes the labor of mixing easier and accomplishes the same in one-half the time that is required with the common mortar-hoe.

With other objects in view, which will hereinafter be referred to, the invention consists of a hoe constructed in the peculiar and novel manner hereinafter first described in detail, and then specifically pointed out in the appended claim, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved hoe. Fig. 2 is an enlarged perspective view of the hoe-blade, illustrating the manner in which the mortar layers are formed as the hoe is manipulated; and Fig. 3 is a face view of the blade.

In the practical construction my improved hoe comprises a blade A, stamped up or otherwise formed, and having a handle-socket member B integrally made therewith to receive the handle C, as shown.

The blade A, which is preferably made ten inches wide and seven inches high, has a series of vertical elongated slots D D' at the lower portion, five being shown—a central one D' and a pair D D at each side of the central one D'.

F F indicate a pair of horizontal elongated slots made in the upper part E of the blade, which are so disposed and of a length sufficient to extend over the full width of a pair of the slots D, as most clearly shown in Fig. 3.

The upper portion E of the blade has its ends made semicircular, the meeting portions

joining at the handle-socket shank c and forming a trough or depression G at a point 50 over the central slot D'.

By constructing a hoe-blade in the manner described it will be manifestly clear that as the hoe is worked back and forth in the mortar-bed the mortar will pass through the slots 55 in layers or sheets, which, owing to the peculiar arrangement of the slots D, D', and F, entwine or thoroughly mix with each other as they pass through such slots. Thus it will be readily apparent from Fig. 2, should the 60 hoe be drawn in the direction indicated by arrow the mortar would pass through in the vertical slots D D D' in vertical sheets d, and through the slots F in horizontal sheets f, which would fall and mix with the sheets 65 coming through the slots D D.

It will be also obvious that owing to the central trough-like top edge the mortar would pass over the said central point in the manner indicated by g and fall onto the central sheet 70 d'. Thus it will be seen that as the hoe is moved in one direction the mortar is mixed in a least four direct directions and as it is passed through the said slots the different separated portions will thoroughly mix with 75 each other, accomplishing, as it were, with one operation of my hoe that which would require at least six or eight manipulations of the common hoe.

Having thus described my invention, what 80 I claim, and desire to secure by Letters Patent, is—

An improved hoe-blade, having a pair of vertically-elongated slots upon each side of the vertical center, of the blade and horizontally- 85 elongated slots formed near the top of blade above each pair of vertical slots so arranged and of such length as to extend over its respective pair of vertical slots, whereby when said blade is in use, a more perfect commin- 90 gling of the mortar is had.

WILLIAM H. DICKSON.

Witnesses:

ROBERT WOOD,
PHARES SHIVE.