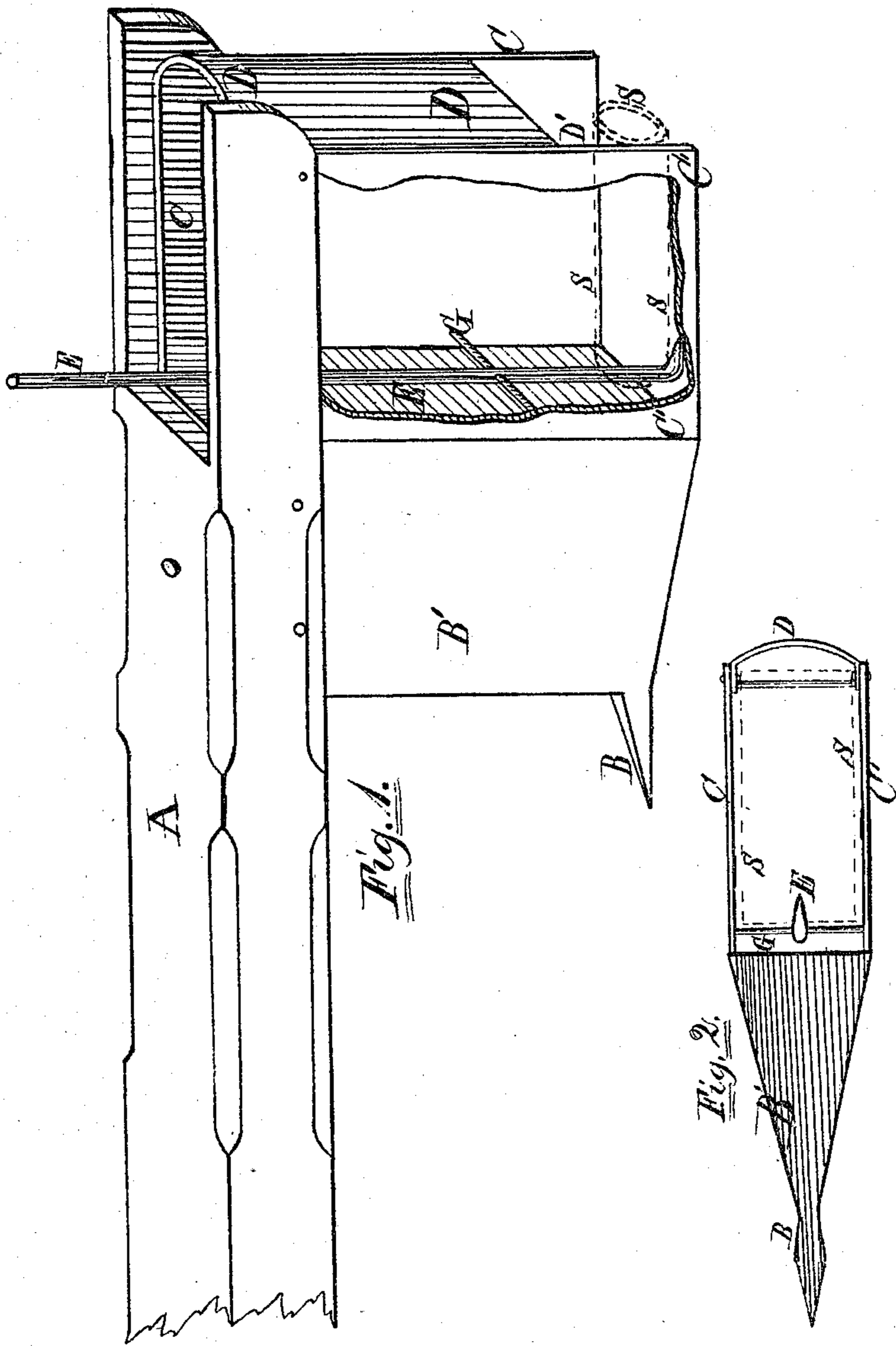


J. R. BARNETT.

## Improvement in Mole-Plows.

No. 128,842.

Patented July 9, 1872.



Witnesses:

Platt R. Richards  
M. H. Barringer.

*Inventor,*

James R. Barnett,

By *H. B. Richards,*  
*Atty.*

# UNITED STATES PATENT OFFICE.

JAMES R. BARNETT, OF GALESBURG, ASSIGNOR OF ONE-HALF OF HIS RIGHT  
TO J. W. ADCOCK, OF UTAH, ILLINOIS.

## IMPROVEMENT IN MOLE-PLOWS.

Specification forming part of Letters Patent No. 128,842, dated July 9, 1872.

### SPECIFICATION.

I, JAMES R. BARNETT, of Galesburg, in the county of Knox and State of Illinois, have invented certain Improvements in Machine for Cutting Ditches and Laying Drain-Tiles, of which the following is a specification:

#### *Nature and Objects of the Invention.*

The nature of my invention relates to improvements in machine for cutting ditches and laying tiles in the same for the purpose of draining the soil; and the invention consists in a new and improved combination of devices whereby each section of tile may be dropped and securely pressed into proper position by means of a lever, operating in manner as hereinafter more fully set forth.

#### *Description of the Accompanying Drawing.*

Figure 1 is a perspective view of my invention, partly broken away to show the interior arrangement and the operation. Fig. 2 is a bottom view.

#### *General Description.*

A is the beam or draft-bar, constructed open at its rear end. B is the mole, and B' the stem on which the mole is carried. The stem B' is made wedge-shaped, with its pointed end forward to cut the soil, and its base in rear, its upper end attached securely to the beam A. C C' are side plates or guards, extending back from the rear side of stem B', to which they are attached, also attached to under side of the beam A. One of the side plates C' is shown partly broken away in the drawing to expose the interior. D is a plate, connecting the rear ends of the side plates C C' from their tops down to below their central part, leaving an opening, D', at the rear end and bottom. E is a lever pivoted on a shaft, G, between and

near the forward ends of the plates C C'. The upper end of the lever E extends above the beam A, and the lower end is bent at right angles, projecting back a little above the level of the bottom of plates C C'.

The operation of my invention is as follows: The mole and stem are entered in the ground, and any of the ordinary means of drawing common ditching-machines may be used at the forward end of the beam A to draw the machine. The mole and stem will, in being drawn forward, open and press the soil to either side for the free passage, without side pressure, of the plates C C'. The tiles are dropped in a horizontal position, a section at a time, to the position shown by dotted lines S at Fig. 1, with their forward end resting on the hook at the lower end of the lever E. The upper end of the lever E may then be taken hold of and drawn forward, thereby throwing the lower end back and pressing the tile back into place. The machine may then be moved forward the length of another tile, and the operation repeated and another tile laid.

It will be seen that by this construction of machine the tile may be laid with their ends fitting neatly together.

Any of the ordinary devices for governing the depth in ditching-machines may be used with this machine.

#### *Claim.*

The lever E, when combined and arranged to operate with the side plates C C', mole B, stem B', handle or beam A, and plate D, substantially as described, and for the purpose set forth.

JAMES R. BARNETT.

Witnesses:

J. W. ADCOCK,

JOHN C. STEWART.