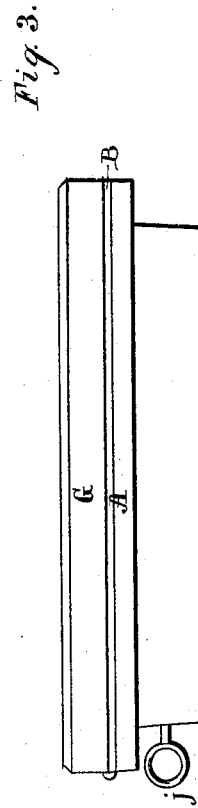
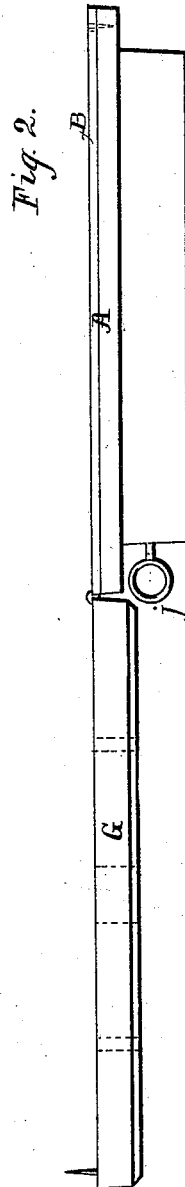
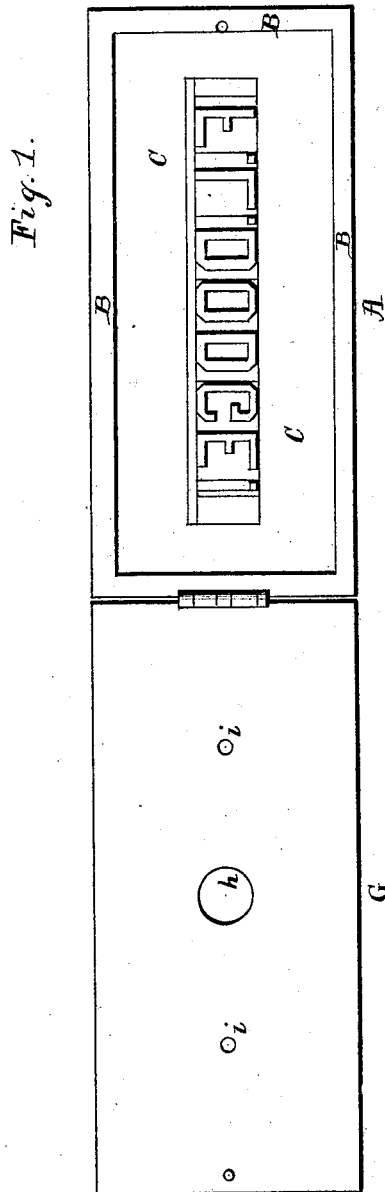


F. L. DODGE & C. E. SMITH.  
Molds for Casting Door-Plates.

No. 169,154.

Patented Oct. 26, 1875



Witnesses:  
Edwin A. Burlingame,  
W. J. Sturck

Inventors:  
Frank L. Dodge  
Charles Smith

# UNITED STATES PATENT OFFICE.

FRANK L. DODGE AND CHARLES E. SMITH, OF GRAND RAPIDS, MICHIGAN.

## IMPROVEMENT IN MOLDS FOR CASTING DOOR-PLATES.

Specification forming part of Letters Patent No. **169,154**, dated October 26, 1875; application filed September 24, 1875.

*To all whom it may concern:*

Be it known that we, FRANK L. DODGE and CHARLES E. SMITH, of Grand Rapids, Michigan, have invented Molds for Casting and Lettering Door and other Plates, of which the following is a specification:

Our invention relates to the construction of a mold for casting and lettering door and other plates, so that the whole may be completed by one single operation, and the same molds used for different shape and style of plate, and for any number of different inscriptions.

In the drawings, A represents the face of the molds; B, adjustable borders of different designs, attached to and detachable from face A, by means of screws or similar device. C is a sunken bed in face A for the reception of letters, characters, or figures, which letters, &c., are held to their position by means of the ordinary quadrats and leads; and held more firmly to position by thumb-screw *j* passing through one end of bed *c*, and pressing as screwed up against outer quadrats in bed *c*. G is the cover, having opening *h*, which will form upon the casting a nut (see plate) for the reception of a bolt to attach to the door; also having holes *i i*, which, upon the casting, will form spurs (see plate) to hold plate to its proper place upon the door, or whatever it may be placed upon. This cover may be attached to molds by ordinary butts or other device, or may remain detached. Openings *h* may answer also for the purpose of pouring the molten metal into molds, as well as for forming nut for bolt. To mold-plate A may be attached both plain and ornamental borders of any desired shape or size, and will accommodate any variety,

either of name, numbers, or inscription, by changing the letters or characters without changing the molds. The border B, as remarked before, is made adjustable, and fastened to face by screws through back of the molds, or similar device, so that one border may be removed and another of any other style or shape substituted at pleasure, so that upon the same mold-face may, by varying letters, &c., and border, be cast a square oblong shield or other shaped plate, with letters or figures of any size or style.

The advantages of this mold for making plates are: it saves the expense of casting in sand; it saves the expense of two processes—first, of casting the plate, and, second, of lettering the same; it saves a multiplicity of molds for different names, numbers, and inscriptions; it saves the expense of engraving, leaves the work perfect, and finished, makes a sunken letter for the reception of coloring wax, and does not require skilled labor to do casting.

What we claim to have invented, and desire patented, is—

The above-described molds for door and other plates, having face A, with sunken bed *c*, removable border *b*, opening *h*, and holes *i*, in combination with letters, figures, or characters D, substantially as and for the purpose set forth.

FRANK L. DODGE.  
CHAS. E. SMITH.

Witnesses:

EDWARD A. BURLINGAME,  
W. J. STUART.