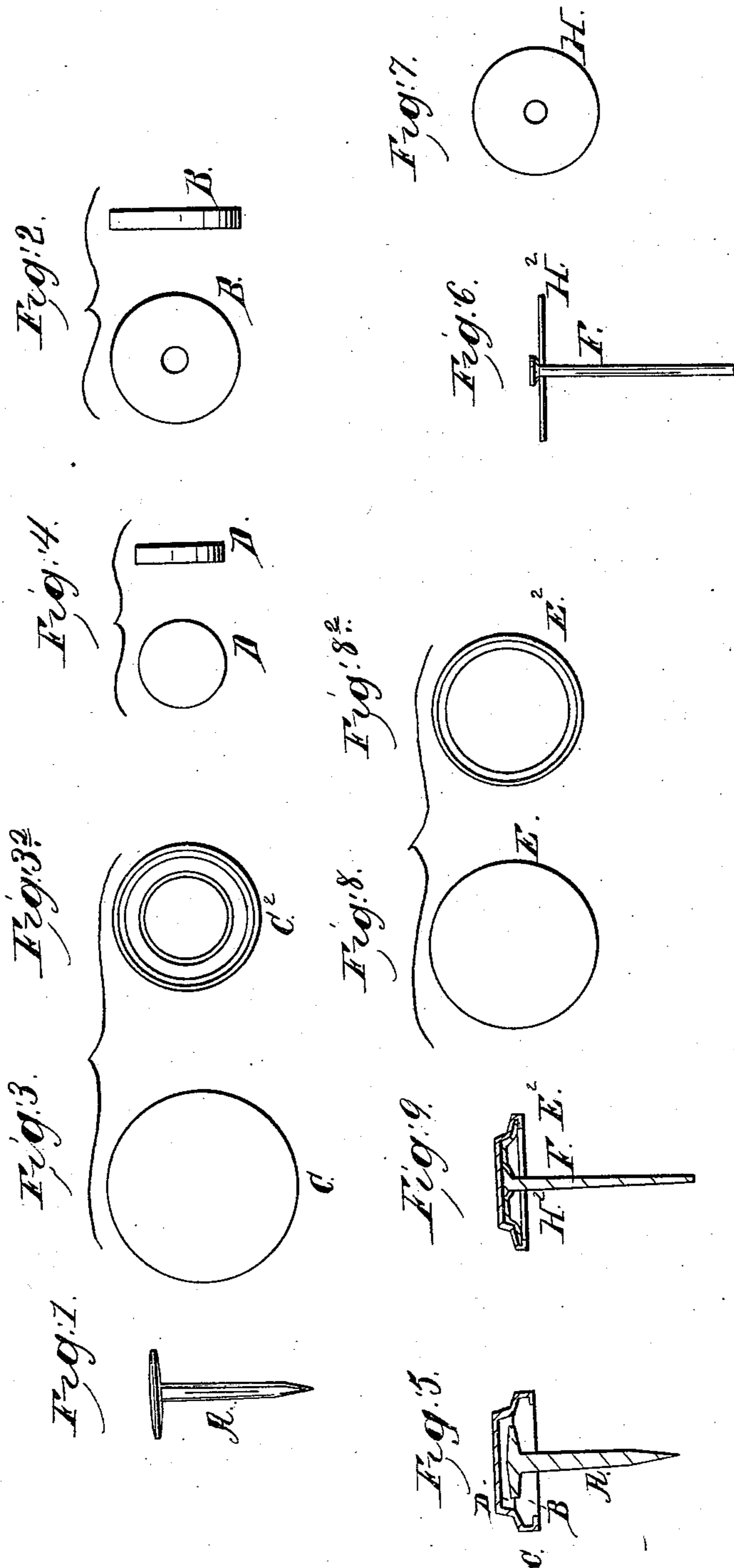


*L. Houghton,  
Making Rivets and Nails.*

*N<sup>o</sup> 3,048.*

*Patented Apr. 15, 1843.*



# UNITED STATES PATENT OFFICE.

LUTHER HOUGHTON, OF PHILADELPHIA, PENNSYLVANIA.

RIVET AND NAIL FOR TRUNKS AND OTHER PURPOSES.

Specification of Letters Patent No. 3,048, dated April 15, 1843.

*To all whom it may concern:*

Be it known that I, LUTHER HOUGHTON, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in the Manufacture of Rivets and Nails for Trunks and for other Purposes, which is described as follows, reference being had to the annexed drawings of the same making part of this specification.

The cover E<sup>2</sup> Figure 8 is made of thin sheet brass, copper, tin, or any other suitable material as represented at E<sup>2</sup> Fig. 8 by being stamped or having the edges raised as seen at E<sup>2</sup> Fig. 8<sup>1</sup>.

The shank F Fig. 6 is made of a wrought or cut nail as may be required with a small head and inserted through an aperture in the center of a circular plate of sheet iron as represented at H Fig. 7 of sufficient thickness and of the diameter to fit in the cavity of the cover E<sup>2</sup> Fig. 8<sup>2</sup> when placed therein, the head of the nail being between the inside of the cover E and the plate H. The edges of the cover are then flattened down over the circular plate firmly in the die by a falling hammer or other means, producing the form

of nail (in its cross section) such as seen at Fig. 9. The head of the nail is then raised in a die of any form or figure required by means of a convex form upon which the head of the nail is placed and a concave punch or drop which is dropped upon the head; or the head may be raised by means of a die and punch or in any convenient way. The nail is then burnished and finished.

Fig. 6 of the drawings is a side elevation of the shank and plate; Fig. 7 plan of the circular plate; Fig. 8 brass plate forming the cover and Fig. 8<sup>2</sup> the same with the edges turned. Fig. 9 section of the nail when complete.

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

The before described method of making rivets for trunks, that is to say the combination of the shank F plate H<sup>2</sup> and cover D with the edges of the latter turned down over the plate H<sup>2</sup>, as set forth.

LUTHER HOUGHTON.

Witnesses:

WM. P. ELLIOT,  
EDMUND MAHER.