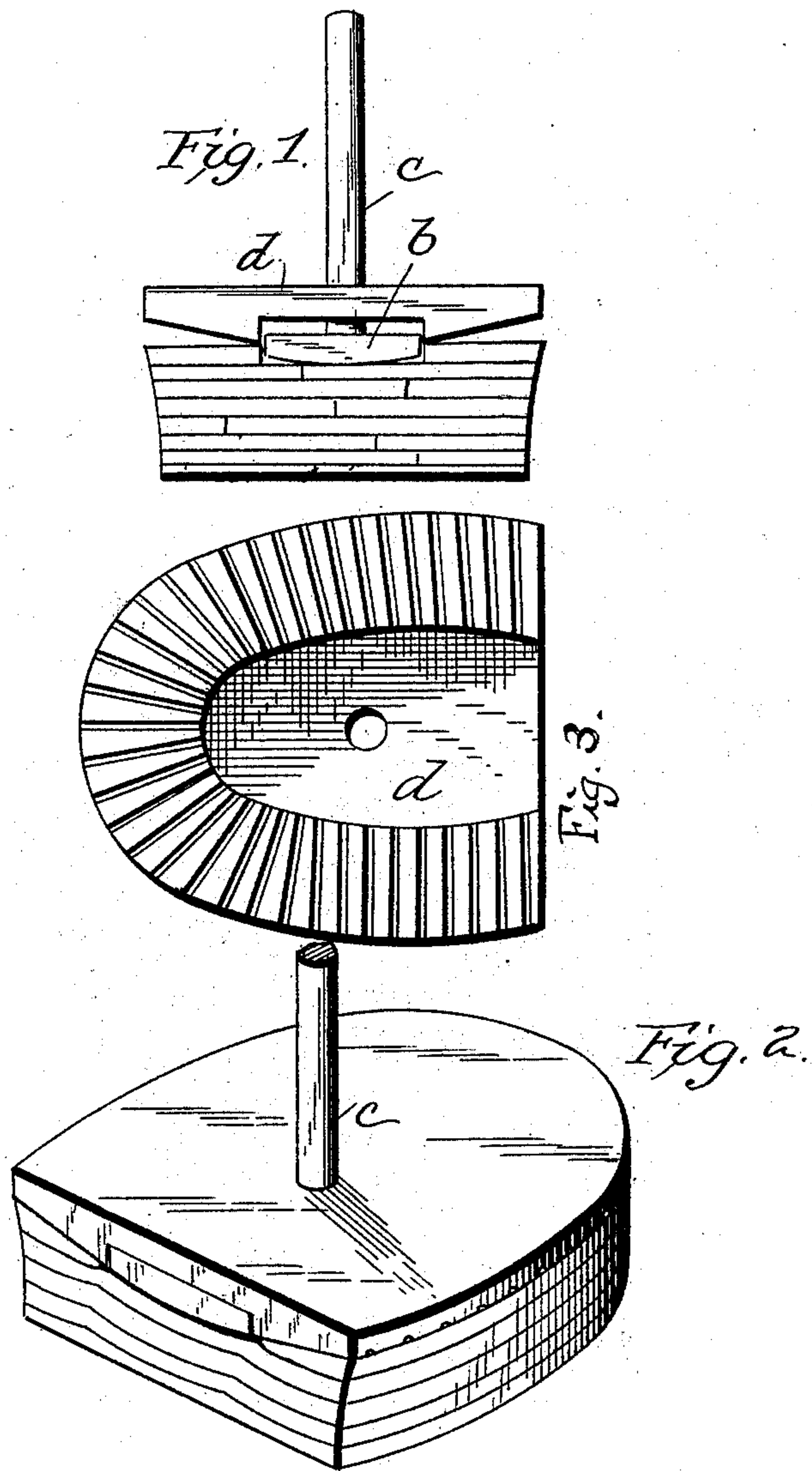


(No Model.)

I. R. ROGERS.  
HEEL DIE.

No. 509,768.

Patented Nov. 28, 1893.



Attest  
F. L. Middleton  
Charles Donaldson

Inventor  
Isahabod R. Rogers  
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ATTY.

# UNITED STATES PATENT OFFICE.

ICHABOD R. ROGERS, OF LYNN, MASSACHUSETTS.

## HEEL-DIE.

SPECIFICATION forming part of Letters Patent No. 509,768, dated November 28, 1893.

Application filed May 8, 1893. Serial No. 473,443. (No model.)

*To all whom it may concern:*

Be it known that I, ICHABOD R. ROGERS, a citizen of the United States of America, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Heel-Dies, of which the following is a specification.

My invention relates to the manufacture of heels and particularly to a form of compressing die adapted for use in applying a rand lift to the heel.

In an application filed by me in the United States Patent Office on the 2d day of December, 1892, Serial No. 453,836, I have shown and described an improved heel having a cut rand embedded in its surface and my present invention is intended for use in forming said heel.

The invention consists of a pressure plate for holding the heel in place and a die plate surrounding the pressure plate, said die plate having a properly formed surface to give the required impression to the rand.

In the drawings:—Figure 1, shows a heel before pressure is applied thereto, with my improvement in position ready to compress the rand. Fig. 2, shows the position of the parts after compression of the rand. Fig. 3 is a bottom plan view of the die plate.

After the heel is built up to the required height by lifts of one or more pieces I apply the rand *a* which is cut into the desired shape approximating that of a horse shoe having an open central portion. The rand is preferably of uniform thickness and in manufacturing my improved heel I usually embed it in the lift of the heel about equal to the thickness of the rand forming the upper surface inclined by giving the face of the die the proper shape which makes the surface of the heel

concave to fit the heel part of the shoe. As shown in Fig. 1, after the rand has been placed in position, the holding plate *b* is inserted within the space of the rand bearing against the upper face of the heel. This plate has a guiding spindle *c* which guides the die plate *d* which is of the shape of the heel, encircles the holding plate *b* and from the recessed center the surface inclines upwardly to the edge being also corrugated radially from the recessed center. As shown in Fig. 1, as the plate *b* is inserted within the space between the limbs of the rand, the die plate rests upon the surface of the rand and as pressure is applied to said die, the rand is embedded into the heel until the inner edge of the die is almost if not quite flush with the lower face of the holding plate. The rand may be embedded to a greater or less extent as may be found desirable.

What I claim is—

1. In a rand pressing die, a holding plate adapted to engage the central portion of the upper surface of the heel blank and a die encircling said plate and adapted to compress the rand lift, substantially as described.

2. In a rand pressing die, a die plate having a centrally located recess in its lower face and an outer portion surrounding said recess adapted to compress the rand lift of the heel blank and a holding plate fitting said recess adapted to engage the central portion of the blank, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ICHABOD R. ROGERS.

Witnesses:

C. H. WELCH,  
H. M. WELCH.