

(No Model.)

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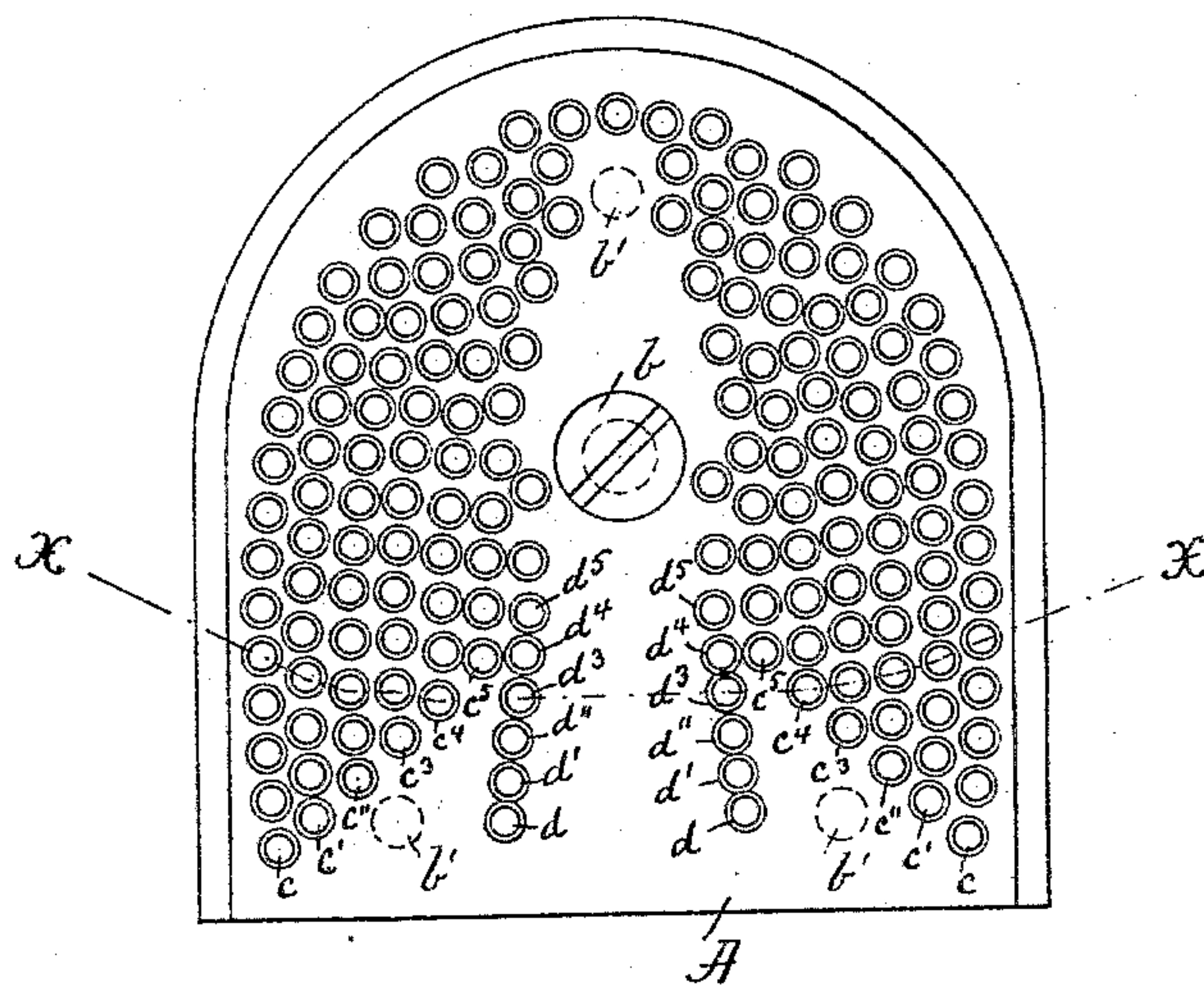
J. H. POPE.

NAIL DIE FOR HEELING MACHINES.

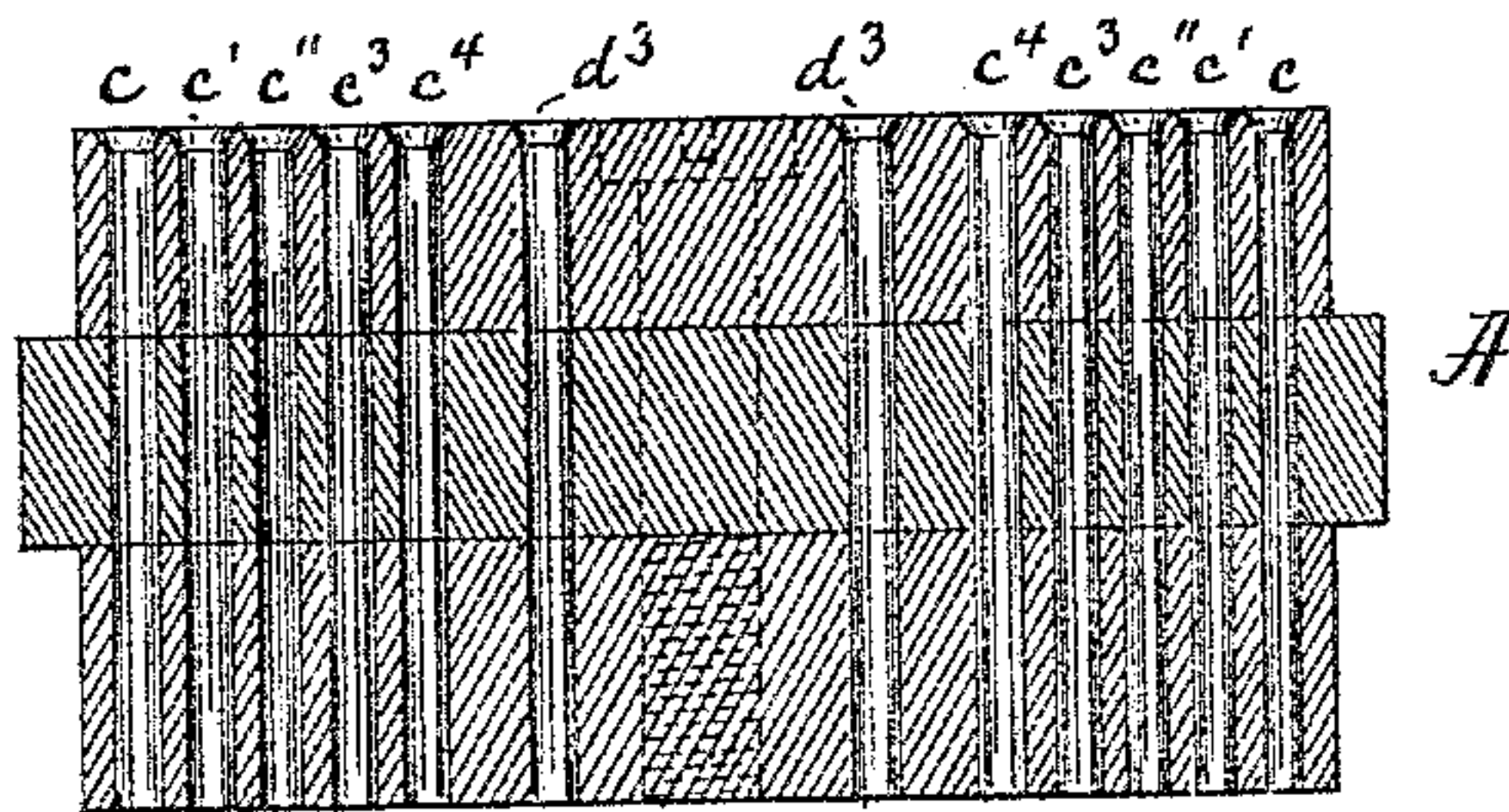
No. 412,292.

Patented Oct. 8, 1889.

*Fig. 1.*



*Fig. 2.*



Witnesses.

*Geo. W. White*  
*Selma R. Schelin.*

Inventor.

*Joseph Horace Pope*  
by *Alban Andrew* his atty.

(No Model.)

2 Sheets—Sheet 2.

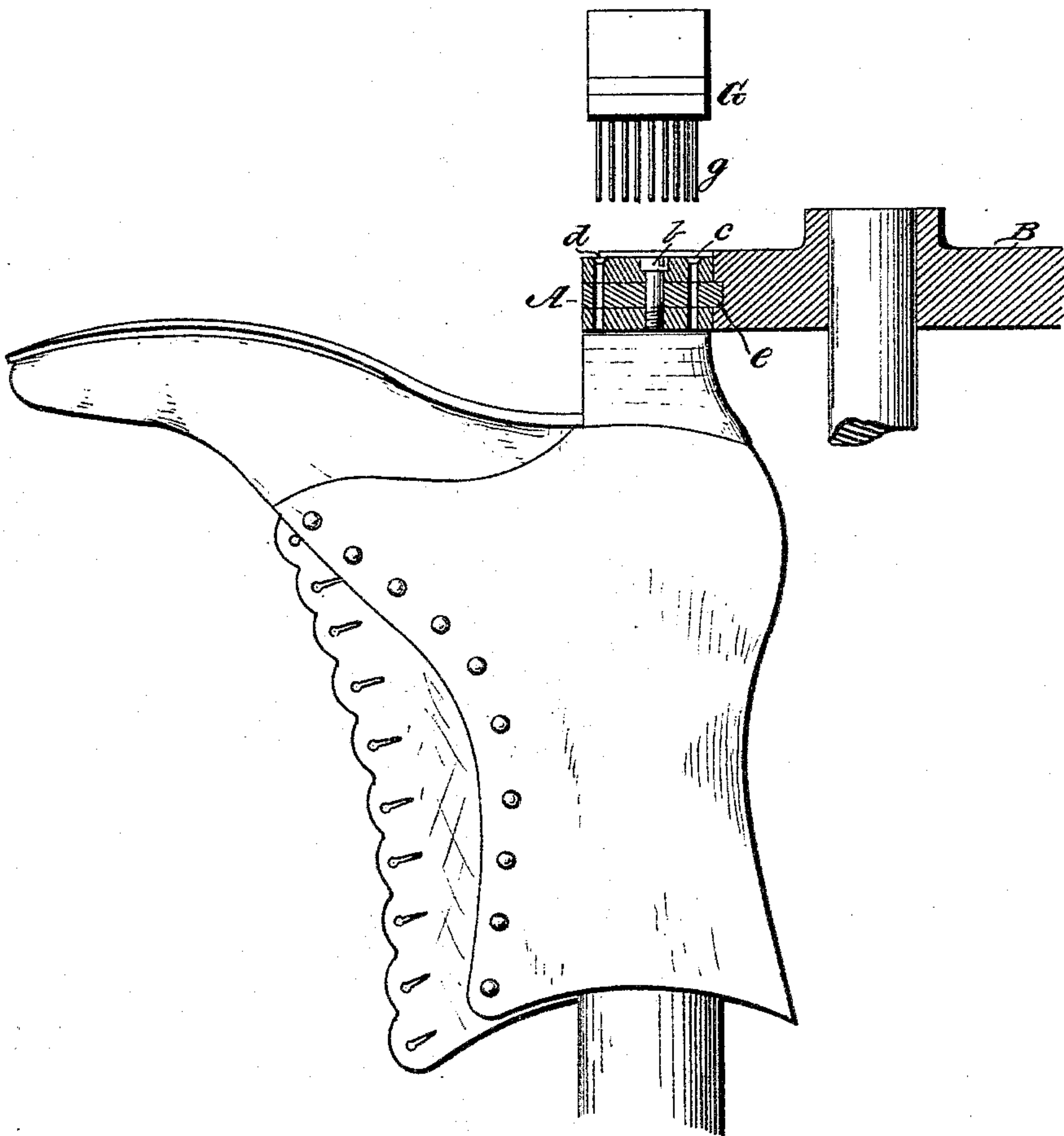
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*Fig. 3.*



*Witnesses,*  
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*Joseph Horace Pope.*  
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*His Atty.*



# UNITED STATES PATENT OFFICE.

JOSEPH HORACE POPE, OF BROCKTON, MASSACHUSETTS, ASSIGNOR TO THE  
AMERICAN HEELING MACHINE COMPANY, OF SAME PLACE.

## NAIL-DIE FOR HEELING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 412,292, dated October 8, 1889.

Application filed February 20, 1889. Serial No. 300,560. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH HORACE POPE, a citizen of the United States, and a resident of Brockton, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in Nail-Dies for Heeling-Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

10 This invention relates to boot and shoe heel nailing machines; and it has for its objects to provide a novel nail-die which can be used for nailing heels of varying size without adjusting or moving such die, and to provide a novel nail-die made of superposed detachably-connected sections, whereby the nail-holes can be drilled without danger of breaking the slender drills usually employed for this purpose, and also whereby a broken nail-driver or a nail stuck in the nail-die can be easily removed by separating the superposed die-sections.

15 The objects of my invention I accomplish by the features of construction and combination of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

20 Figure 1 is a detail plan view of the nail-die. Fig. 2 is a sectional view taken on the line X X, Fig. 1. Fig. 3 is a detail sectional elevation showing a nail-driver and a shoe on a shoe support or jack.

25 In the drawings, A represents the improved nail-die, composed of three sections—an upper, middle, and lower one—as shown, which sections are rigidly but detachably held together by means of the set-screw *b* and the steady-pins *b' b' b'*. Through the sectional nail-die I make a series of rows of vertical perforations *c c' c'' c<sup>3</sup> c<sup>4</sup> c<sup>5</sup>*, of which *c* is the outermost row, the other rows being arranged inside of the row *c*, as shown. Said perforations are adapted to receive the attaching-nails by which the heel is secured to the sole of the boot or shoe. According to the size of the heel that is to be nailed any one of the rows of perforations, or a portion only thereof, may be used for the purposes of receiving the attaching-nails that are to be driven into the heel and sole. Besides the said circumferen-

tial series of perforations *c c' c''*, I provide the improved nail-die with rows of perforations *d d' d'' d<sup>3</sup>*, each row containing one or more perforations, as shown, for receiving the breasting-nails that are to be driven into the boot or shoe heel at or near its breast portion, as shown in the drawings.

The driver-block G, Fig. 3, used in connection with my improved nail-die, is made to correspond with the latter—that is, it has a number of drivers *g*, arranged in rows corresponding to the location of the perforations in the nail-die.

The nail-die holder B, Fig. 3, is constructed to receive the nail-die, and is provided with a groove *e*, in which is inserted the laterally-extended central or middle section of the nail-die.

30 In using the invention for the purpose of nailing the boot or shoe heels a loader of the usual form is used for each size of the heel for dropping the nails into the perforation in the improved perforated nail-die previous to driving the nails into the boot or shoe heel. It will thus be seen that this my improved nail-die may be used for nailing heels of various sizes simply by feeding the nails into such of the perforations as are suitable to and correspond to the size of the heel desired to be nailed. Thus, for instance, for large heels I load the attaching-nails into the perforations of the outer row *c*, and the breast-nails into the perforations of the outer row *d*, and for smaller heels I use corresponding rows for the attaching and breast nails.

35 By constructing the nail-die of three superposed sections, as described, the nail-holders can be drilled through one section at a time, so that by avoiding the necessity of passing the drill through the entire thickness of the nail-die I avoid the danger of breaking the slender drills which are usually employed.

40 By constructing the nail-die of superposed sections detachably connected a broken nail-driver or a nail that may be stuck in the die can be conveniently and quickly removed by separating the die-sections.

45 Having thus described my invention, what I claim is—

A nail-die for heel-nailing machines, con-

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sisting of three superposed sections each provided with a series of rows of nail-holes, said sections rigidly but detachably united in fixed relation to each other by a vertical screw and  
5 steady-pins, with the several rows in one section in coincidence, respectively, with the several rows in the other sections, and the central section of greater dimensions than the upper and lower sections and projecting laterally beyond the same to support the nail-

die in a groove of the nail-die holder, substantially as shown and described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 26th day of 15 January, A. D. 1889.

JOSEPH HORACE POPE.

Witnesses:

ALBAN ANDRÉN,

SELMA R. SCHELIN.