D. F. SOUTHWICK.

DIE FOR FORMING CARRIAGE STEP PADS.

No. 277,853.

Patented May 15, 1883.

FIG.1.

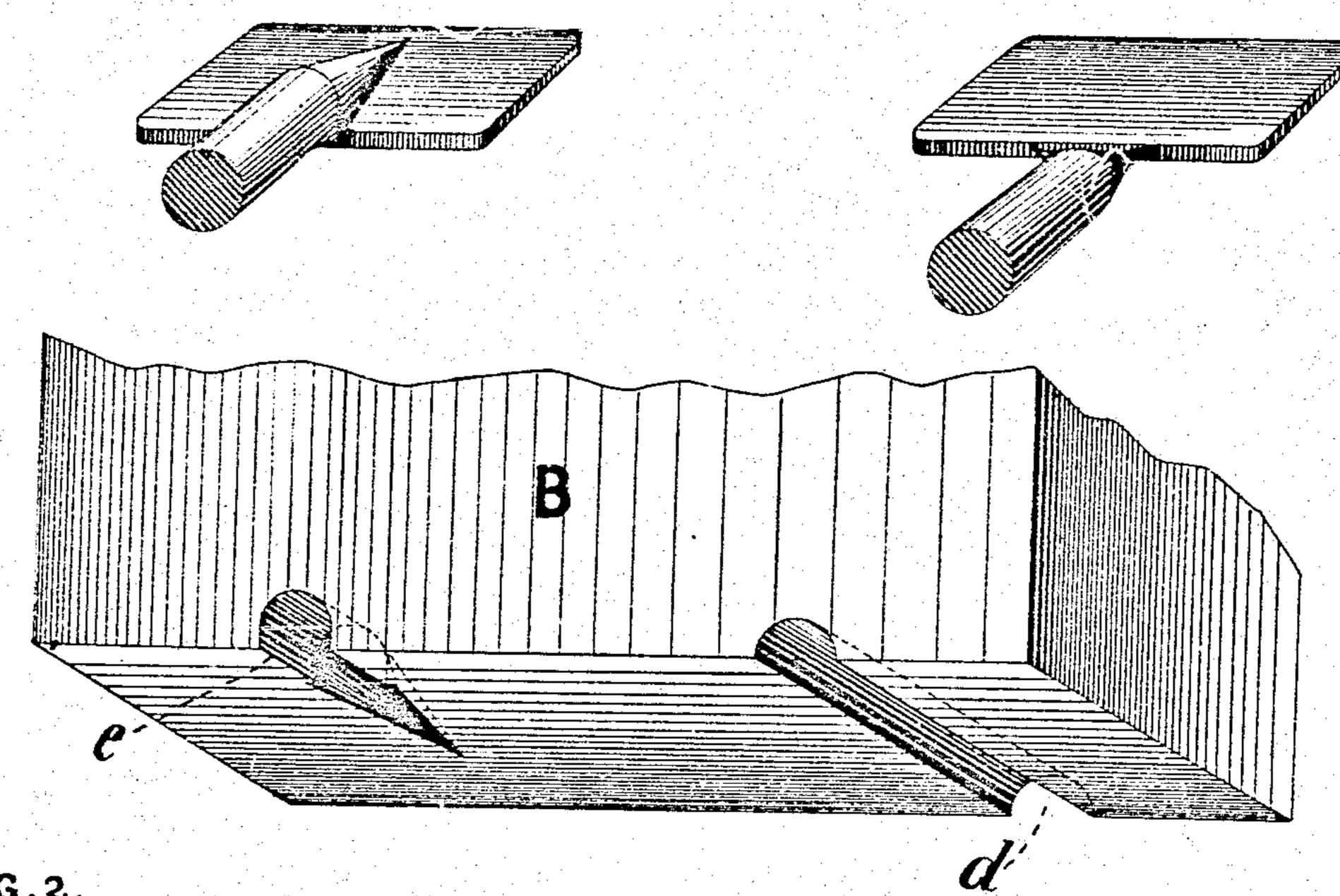
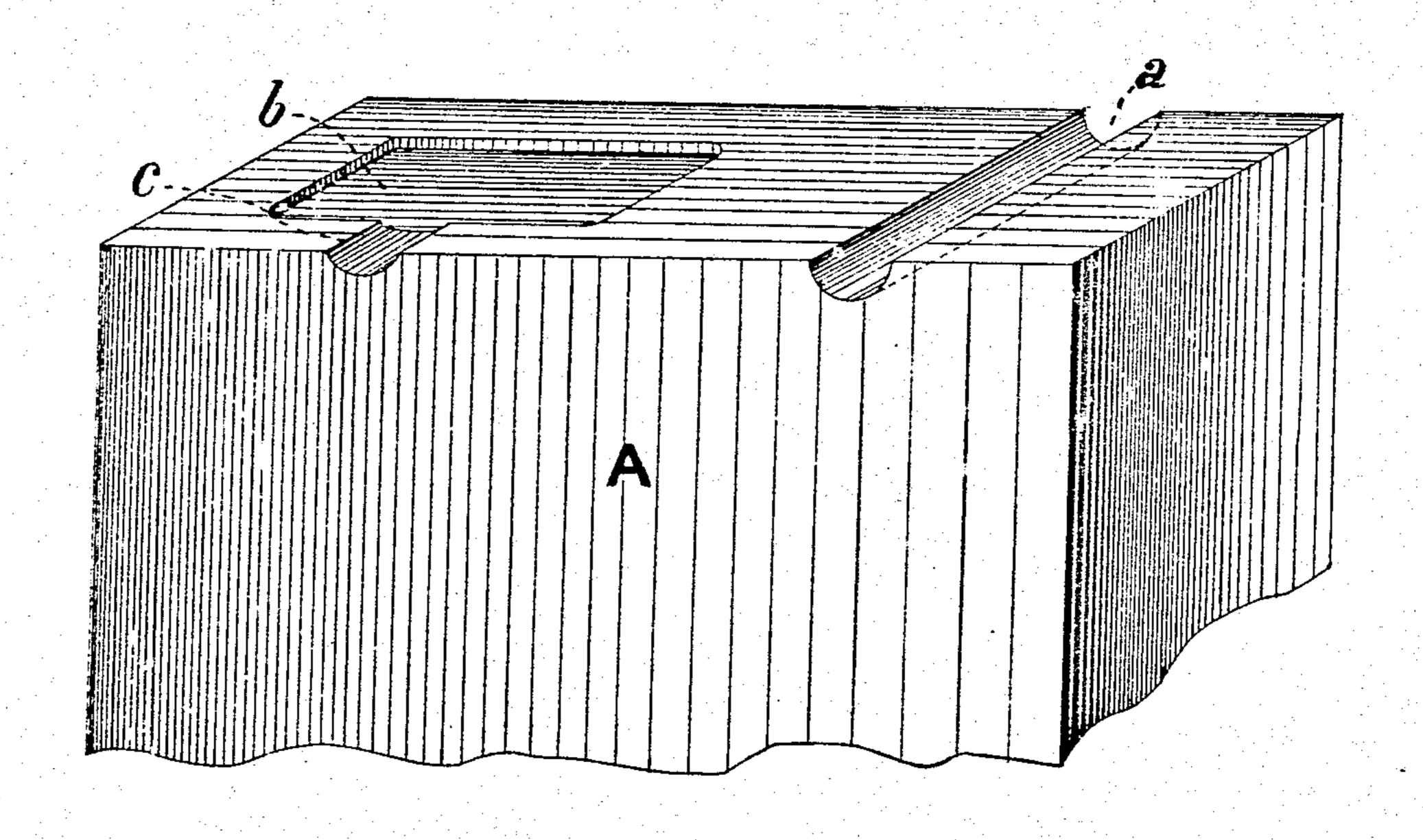


FIG.2.



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DIE FOR FORMING CARRIAGE-STEP PADS.

SPECIFICATION forming part of Letters Patent No. 277,853, dated May 15, 1883.

Application filed December 19, 1881. (No model.)

To all whom it may concern:

Be it known that I, Daniel F. Southwick, a citizen of the United States, residing at Meriden, in the county of New Haven and 5 State of Connecticut, have invented certain new and useful Improvements in Dies for Forming Carriage-Step Pads; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being 10 had to the accompanying drawings, in which—

Figure 1 represents the two sides of a finished step-pad; and Fig. 2, views of the upper

die, B, and lower die, A.

The design of my invention is to make a 15 carriage-steppadata single heat and by means of a single pair of dies, and I accomplish this object by the devices and in the manner hereinafter described—that is to say, a bar of iron, preferably flat iron, is cut off of a length con-20 taining metal enough to make the shank and body of the step-pad, and the part intended to form the shank is rounded and made cylindrical by inserting it, while hot, in the half-round groove a of the lower die, A, and causing it to 25 be struck by the upper die, B, which has a corresponding half-round groove of the same size, after which the remaining or flat portion of the blank, while hot, is placed in the recess b of the lower die, A, and shape is given there-30 to, so that the resultant product of that portion of the die will correspond in shape with the body of the step-pad, as shown in Fig. 1. The flush or fin is to be trimmed or sheared off in the usual manner, by means of trimmers or 35 otherwise. The dies A and B are made of hard metal,

preferably steel. The lower die, A, has on one part of its face a half-round groove, as shown at a, Fig. 2, and on the other part of its facial surface a square or rectangular or other shaped de- 40 pression, b, of even depth, and on one side thereof-namely, that which forms the side of the body of the step-pad next the shank-is a halfround groove, c, extending out to the side of the die. The upper die, B, is provided with a 45 half-round groove, d, corresponding with and opposite to a similar groove on the lower die, and has, also, a groove or depression, e, of considerable depth, opposite the center of the depression in the lower die, this transverse depression be- 50 ing preferably of a semi-conical shape—that is to say, of the shape of a cone bisected by a line drawn from its apex to the center of its base.

In operating these dies the lower or anvil 55 die, A, is held stationary in a bed-plate, and the upper die, B, may be held and operated by and in a hammer or in a drop-press operated by motive power.

Having thus described my invention, what 60 I claim as new, and desire to secure by Letters

Patent, is—

The dies for forming both shank and body of carriage-step pads at a single heat, consisting of the upper die, B, with its depressions e 65 and d, and the lower die, A, provided with recesses and grooves a, b, and c, substantially as described, and for the purpose specified.

DANIEL F. SOUTHWICK.

Witnesses:

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