

J. S. GOW.  
Tool for Forming Lugs in Stove Covers.

No. 230,475.

Patented July 27, 1880.

Fig. 1

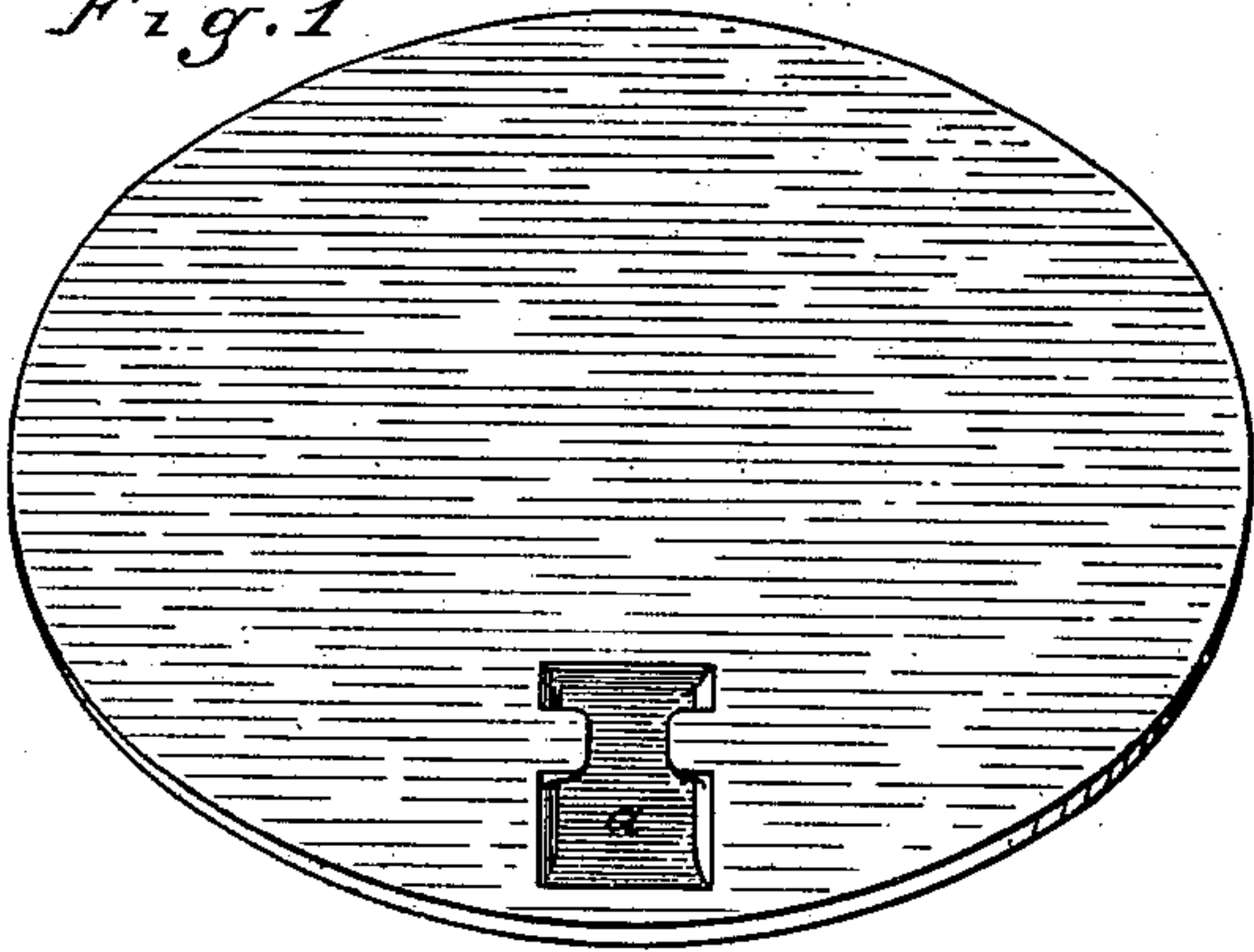


Fig. 2

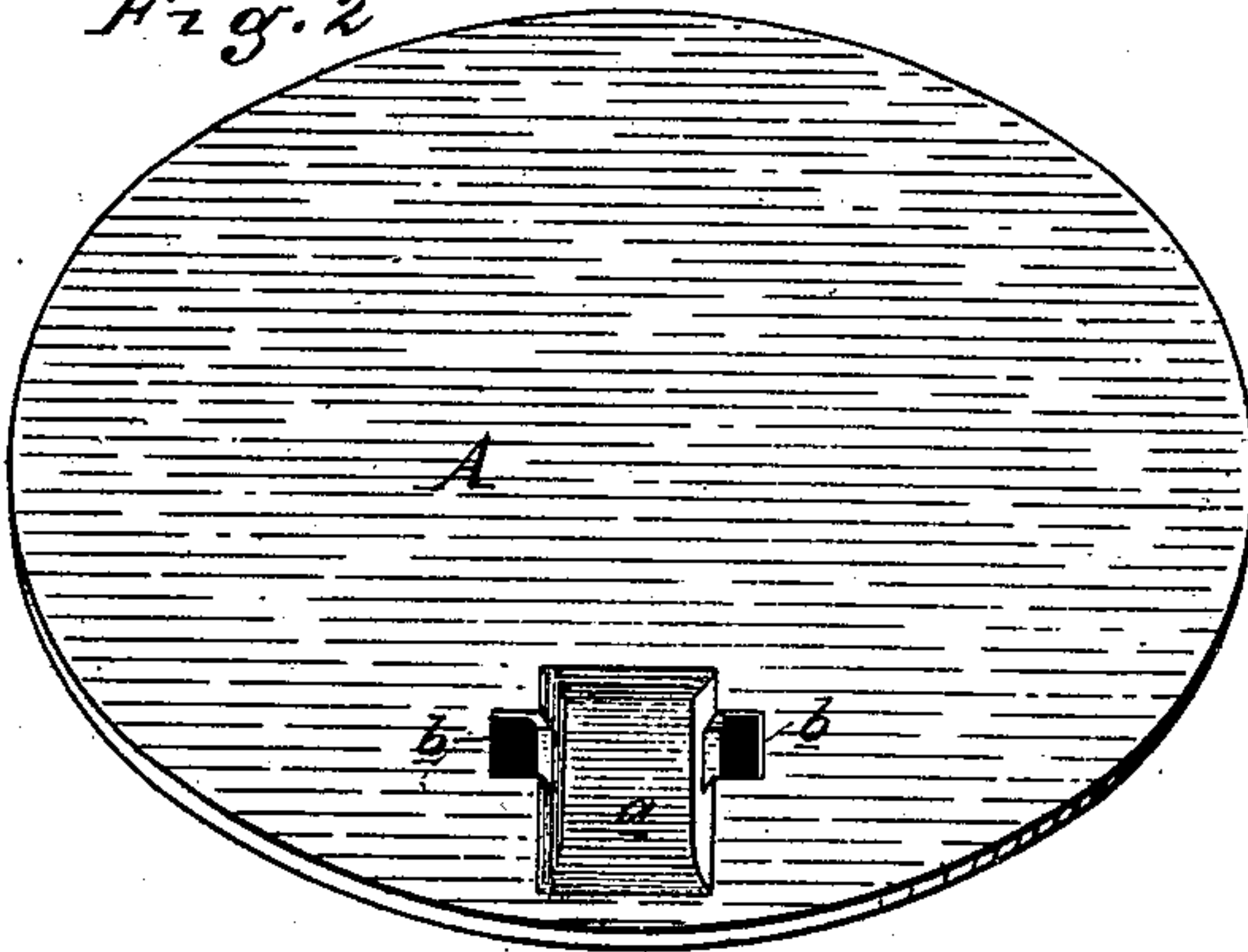


Fig. 3

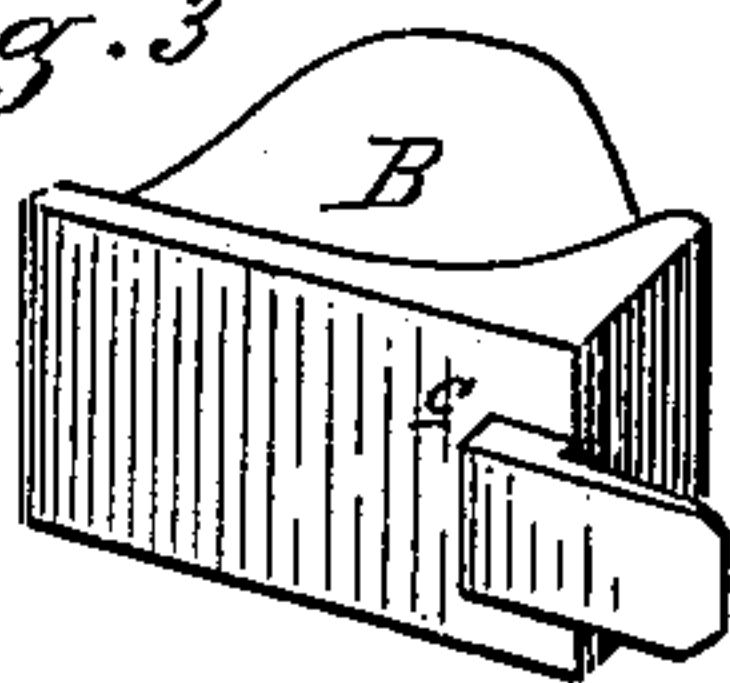
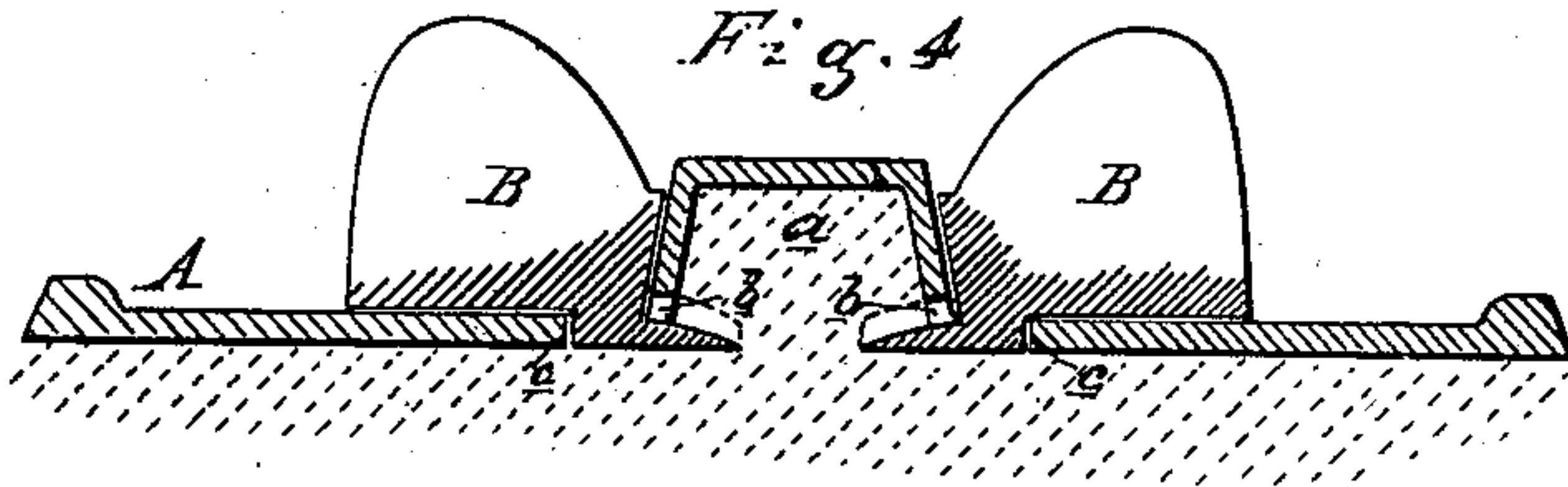


Fig. 4



Attest:

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# UNITED STATES PATENT OFFICE.

JAMES S. GOW, OF QUINCY, ILLINOIS.

## TOOL FOR FORMING LUGS IN STOVE-COVERS.

SPECIFICATION forming part of Letters Patent No. 230,475, dated July 27, 1880.

Application filed January 10, 1880.

*To all whom it may concern:*

Be it known that I, JAMES S. GOW, of Quincy, in the county of Adams and State of Illinois, have invented an Improvement in Stove-Covers, of which the following is a specification.

This invention relates to certain improvements in the art of manufacturing stove-covers, as hereinafter more fully set forth and pointed out in the claim.

Figure 1 represents a perfected stove-cover, provided with the sink and lifter projections flush with the face of the cover. Fig. 2 represents a pattern for the same with the sink and without the lifter projections. Fig. 3 is a perspective of the removable punch by means of which the lifter-projections are formed in the sand. Fig. 4 shows a vertical section through the center of the sink and lifter projections, showing the punch in place in the preparation of the mold for casting.

In the accompanying drawings, A represents a pattern of a stove-cover provided with a lifter-sink, *a*, with an opening in each side thereof extending into the face of the cover. This opening is marked *b*. This pattern is molded in the sand in the usual way, and af-

ter being molded the cope is removed and the punch B, one on each side, is inserted into the sides of the sink and openings *b*. This punch is sharpened and provided with a shoulder, *c*, the same thickness as the cover itself, and fits into the openings *b* therein, while the sharpened blade projects into the sink through the openings in the sides thereof, (in the pattern,) thus pressing away the sand down to the face of the cover. The pattern is then removed, the cope replaced, and the casting made with the lifter-projections flush with the top of the cover, the iron therefor running into the space made by the blades of the punches.

What I claim as my invention is—

The combination of the pattern A, provided with the lifter-sink *a*, having all its sides closed, but having the openings *b* for the insertion of the punch, with the punch B, provided with the shoulder *c*, having a sharpened edge, substantially as described, and for the purpose set forth.

JAMES S. GOW.

Witnesses:

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S. B. PEPPER.