

GEORGE H. SMITH.

Improvement in Shovel Plow.

No. 125,494.

Patented April 9, 1872.

Fig. 1.

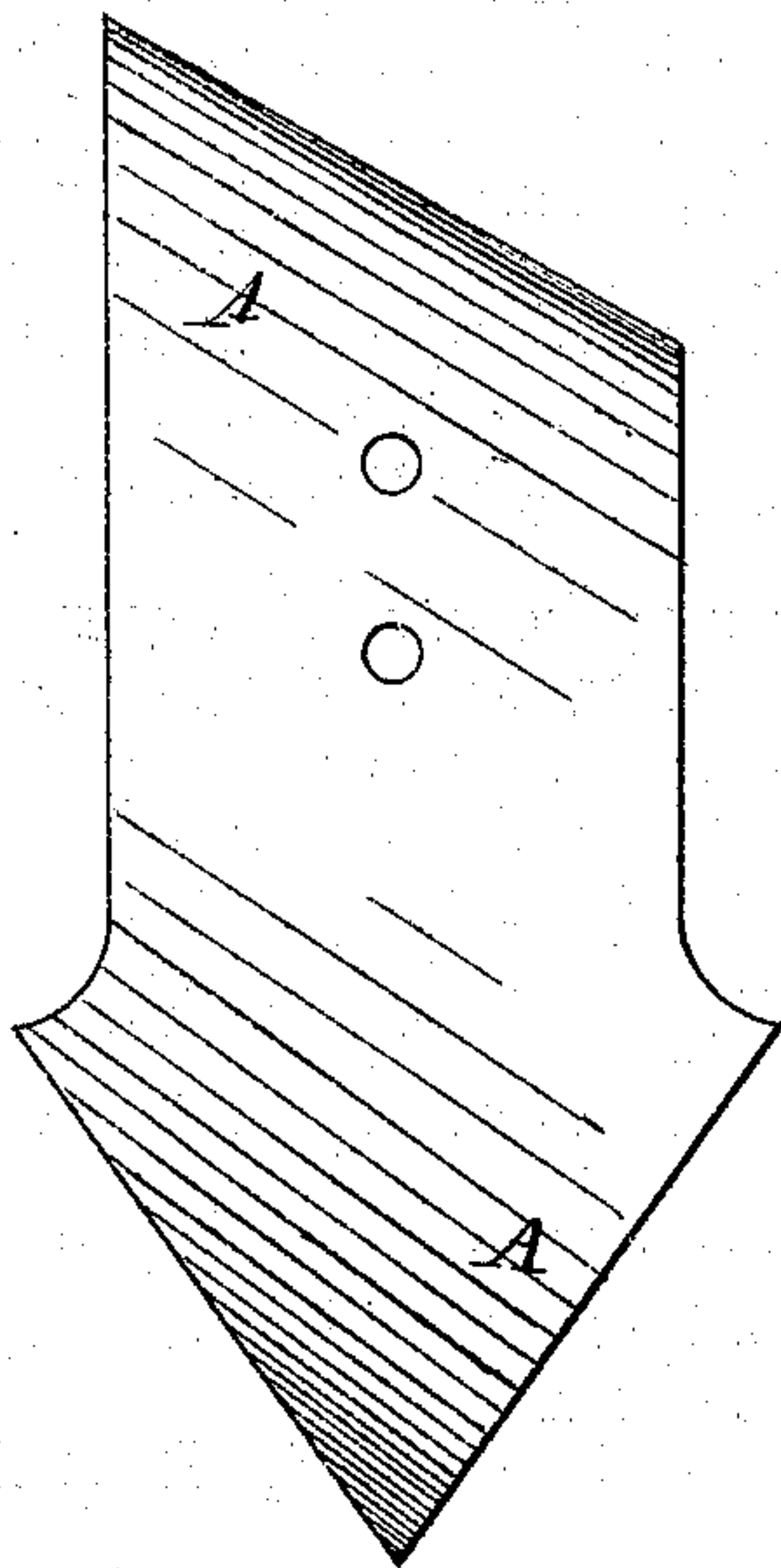


Fig. 2.



Fig. 3.

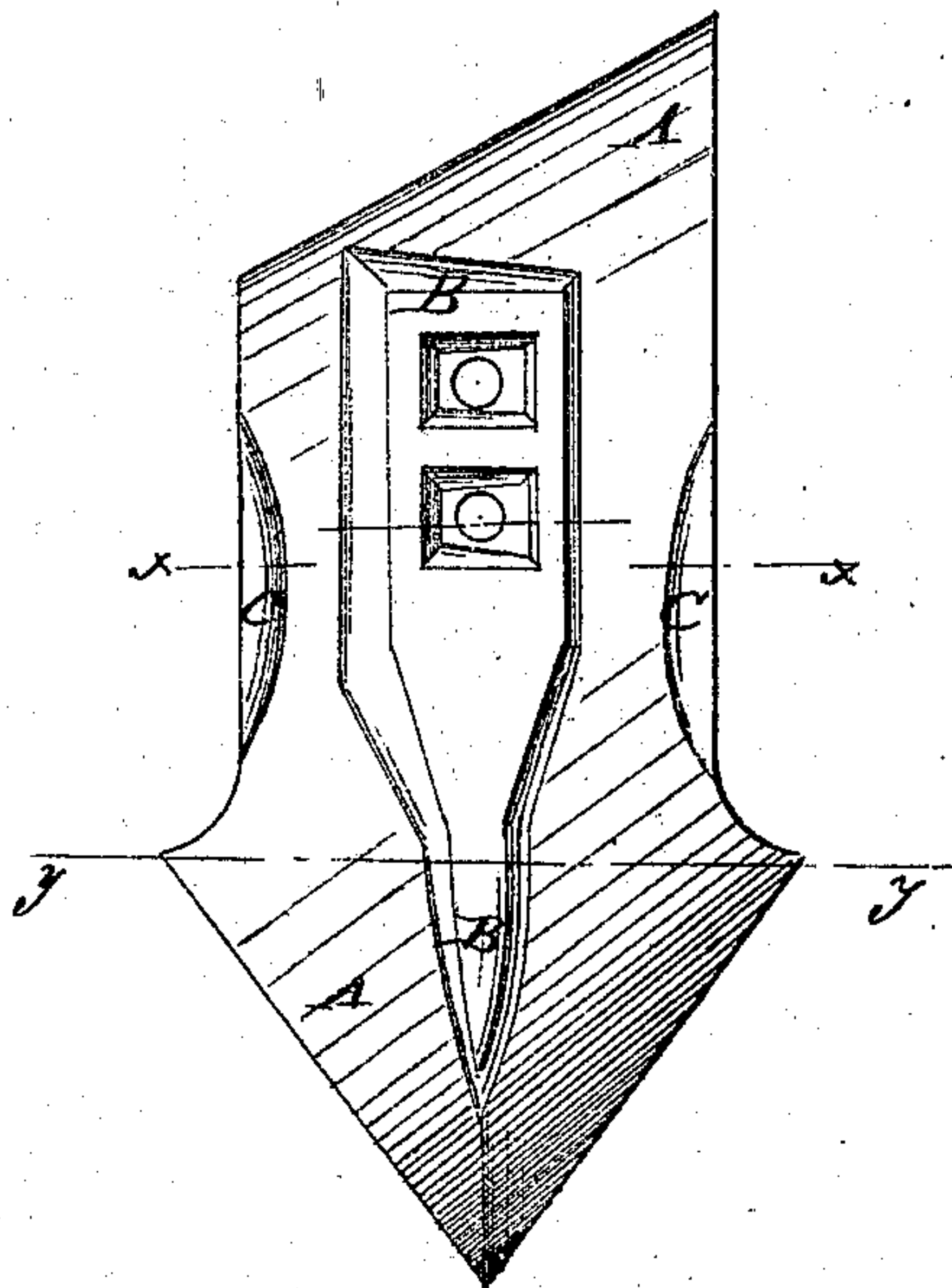
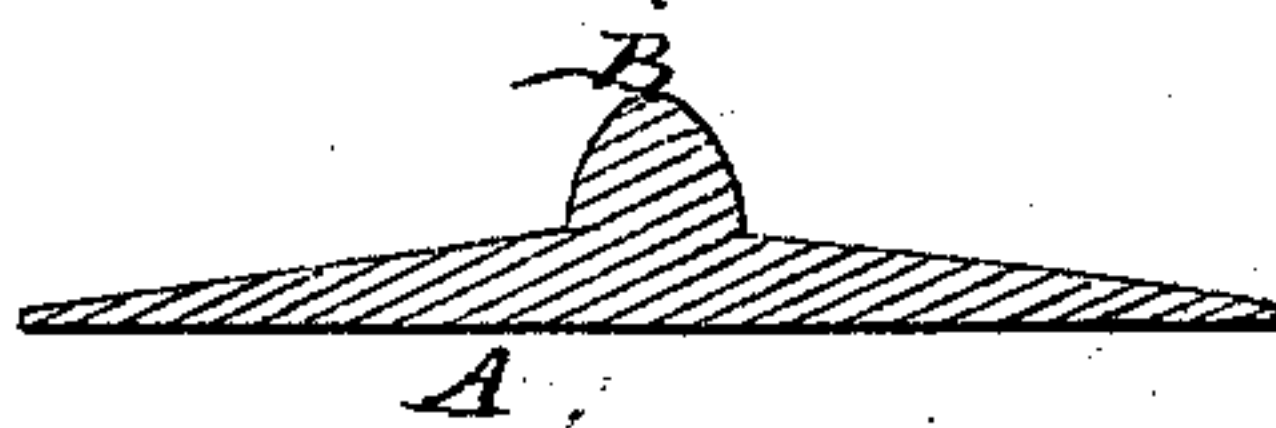


Fig. 4.



Fig. 5.



Witnesses:

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# UNITED STATES PATENT OFFICE.

GEORGE HOPKINS SMITH, OF DES MOINES, IOWA.

## IMPROVEMENT IN SHOVEL-PLOWS.

Specification forming part of Letters Patent No. 125,494, dated April 9, 1872.

Specification describing a new and useful Improvement in Shovel-Plows, invented by GEORGE HOPKINS SMITH, of Des Moines, in the county of Polk and State of Iowa.

Figure 1 is a front view of my improved shovel-plow. Fig. 2 is an edge view of the same. Fig. 3 is a rear view of the same. Fig. 4 is a detail cross-section of the same taken through the line *x x*, Fig. 3. Fig. 5 is a detail cross-section of the same taken through the line *y y*, Fig. 3.

My invention has for its object to furnish an improved cast shovel-plow for cultivators, which shall be so made as to possess the requisite strength while leaving its forward side or surface of the proper form to do the required work; and it consists in the construction of the shovel, as hereinafter more fully described.

A represents the shovel, upon the middle part of the back of which is formed a strong rib, B, extending down to, or nearly to, the point, as shown in Figs. 2 and 3. The upper part of the rib B is made wider, and has cavities or recesses formed in it, as shown in Figs. 3 and 4, to receive the bosses or projections of

the plow-seat, by which the plow is secured to the plow-standard. Upon the rear sides of the side edges are formed short projections, ribs, or thickenings, C, extending for such a distance as may be necessary for throwing out a full corner and giving the requisite strength to the shovel, the upper parts of the side edges, where so much strength is not required, being made lighter.

The shovels may be cast of any metal that will give a good tough cutting-edge and a strong back, and will take the highest possible temper upon the front. Cast-steel fronts cast upon Bessemer-steel backs, in cast-iron molds, will make the best shovels.

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

The shovel-plowshare A, having central rib B and side ribs C C arranged thereon, as and for the purpose described.

GEO. H. SMITH.

Witnesses:

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