

I. Babbitt,

Hone.

N^o 10,954.

Patented May 23, 1854.

Fig. 1.

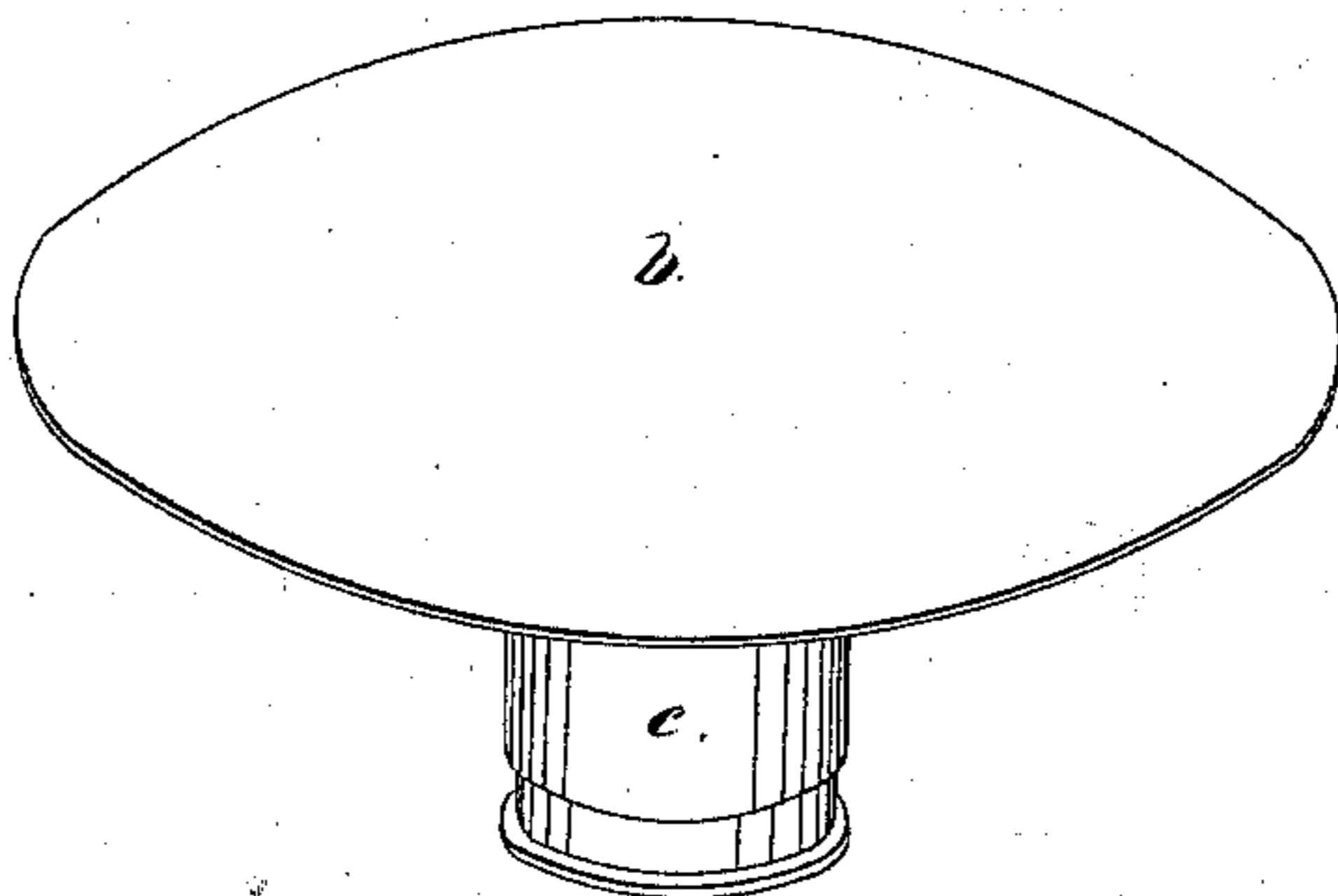


Fig. 2.

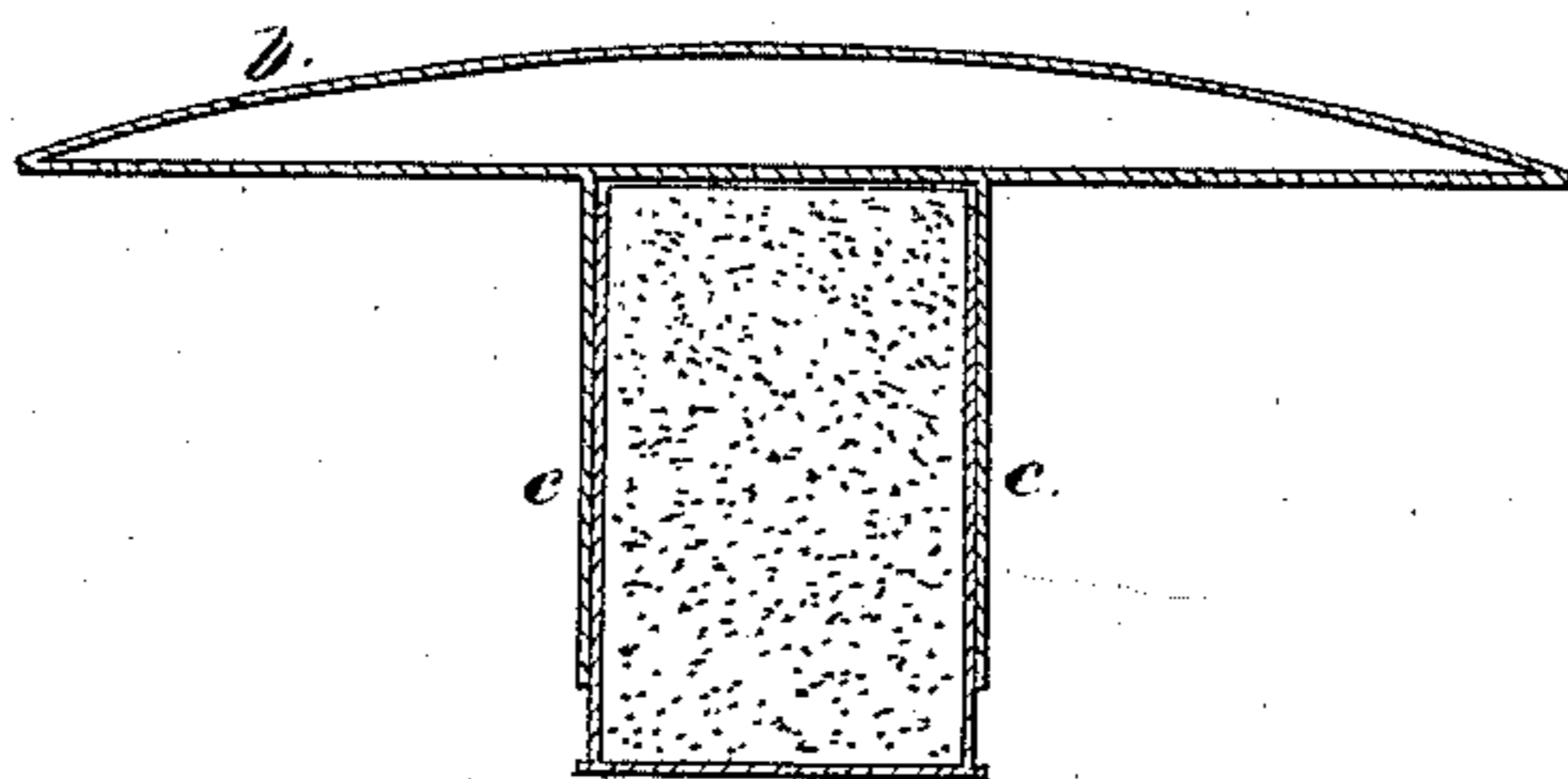
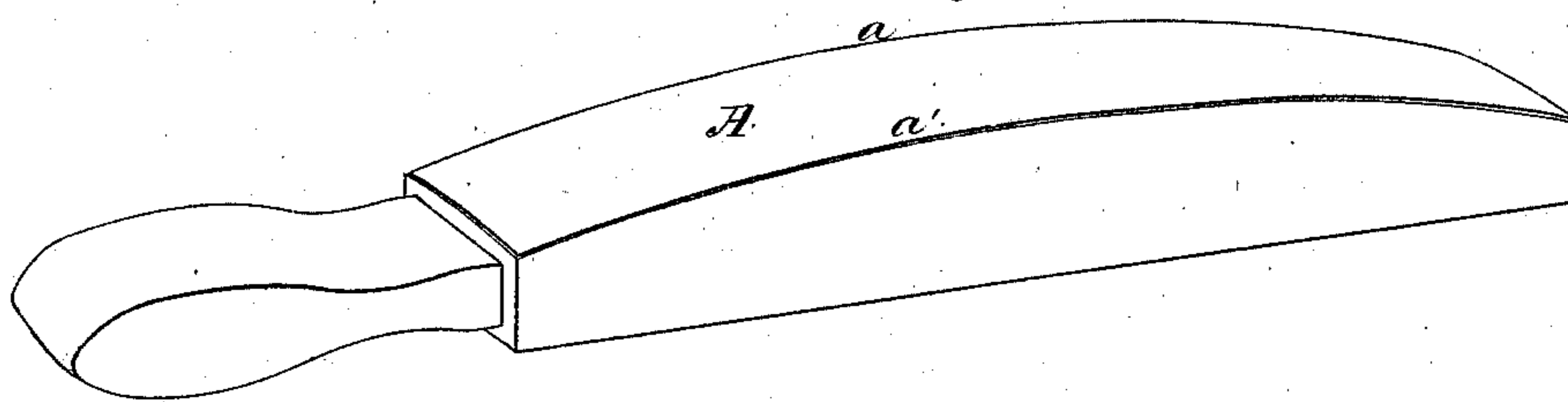


Fig. 3.



Fig. 4.



UNITED STATES PATENT OFFICE.

ISAAC BABBITT, OF ROXBURY, MASSACHUSETTS.

HONE.

Specification of Letters Patent No. 10,954, dated May 23, 1854.

To all whom it may concern:

Be it known that I, ISAAC BABBITT, of Roxbury, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Metallic Hones for Sharpening Razors; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, in which—

Figure 1 is a view of my improved hone. Fig. 2 a section through the same. Figs. 3 and 4, will be referred to hereafter and will be made use of to illustrate my invention.

It is known that the edge of a razor which has been recently ground upon a cutler's wheel is superior to that which it can ever possess after being set upon a flat hone, this is owing to the extreme thinness which is given to its edge by the hollowing of the sides of the blade as seen in Fig. 3 which is a section through the blade of a razor. To imitate the operation produced upon the blade by a cutler's wheel, razor straps have been made curved in one direction, as represented in Fig. 4. This device may be made to answer a very good purpose in a razor straps, but will never answer for a hone, as in unskilful hands, or without the extremest care the edge of the blade, would be destroyed upon the edges *a a'*.

To avoid this inconvenience and at the same time to produce a hone, which shall keep the edge of the razor always thin, without at any time injuring it even though it be used ever so carelessly or in ever so unskilful hands is the object of my present invention, which consists in making my hone of a portion of the surface of a sphere as represented in Figs. 1 and 2, upon which it will be perceived a razor may be honed in the most careless manner or by the most unskilful person without danger of injury to the cutting edge.

To enable others skilled in the art to make and use my hone, I will proceed to describe

it, and the manner in which it is made and operated.

b, is a convex disk of suitable metal being a portion of the surface of a sphere of from 10 to 15 inches radius. This surface may be of iron, zinc, lead or other metal, but the material which I prefer to make use of is sheet tin, the disks being struck into a convex form by dies. The convex surface thus formed is suitably attached to a handle *c*, which is made hollow to accommodate a receptacle for the paste or grit to be used with the hone. This may be ground emery or any other suitable cutting substance. As this however forms no part of my present invention, it is merely referred to at the present time.

Operation: A portion of the paste or of any suitable cutting substance is spread upon the convex surface of the hone, with sufficient oil to enable it to work freely and the razor is then honed thereon. It is evident that as before stated, however carelessly the hone may be used there can be no danger of injury to the razor while at the same time the thin edge and concave blade is obtained, heretofore only attainable by the use of the cutler's wheel.

I do not claim making razor straps curved in one direction, or of portions of the surface of a cylinder as this has been done before. Neither do I claim the use of metal of any description as a material for making hones. But

What I do claim as my invention and desire to secure by Letters Patent is—

Making the grinding surface of hones for sharpening razors convex, or of portions of the surface of a sphere in the manner and for the purpose described.

ISAAC BABBITT.

Witnesses:

SAM. COOPER,

H. B. SPINNEY.