

E. K. Haynes,

Needle Sharpener.

No. 104,732.

Patented June 28. 1870.

Fig 1.

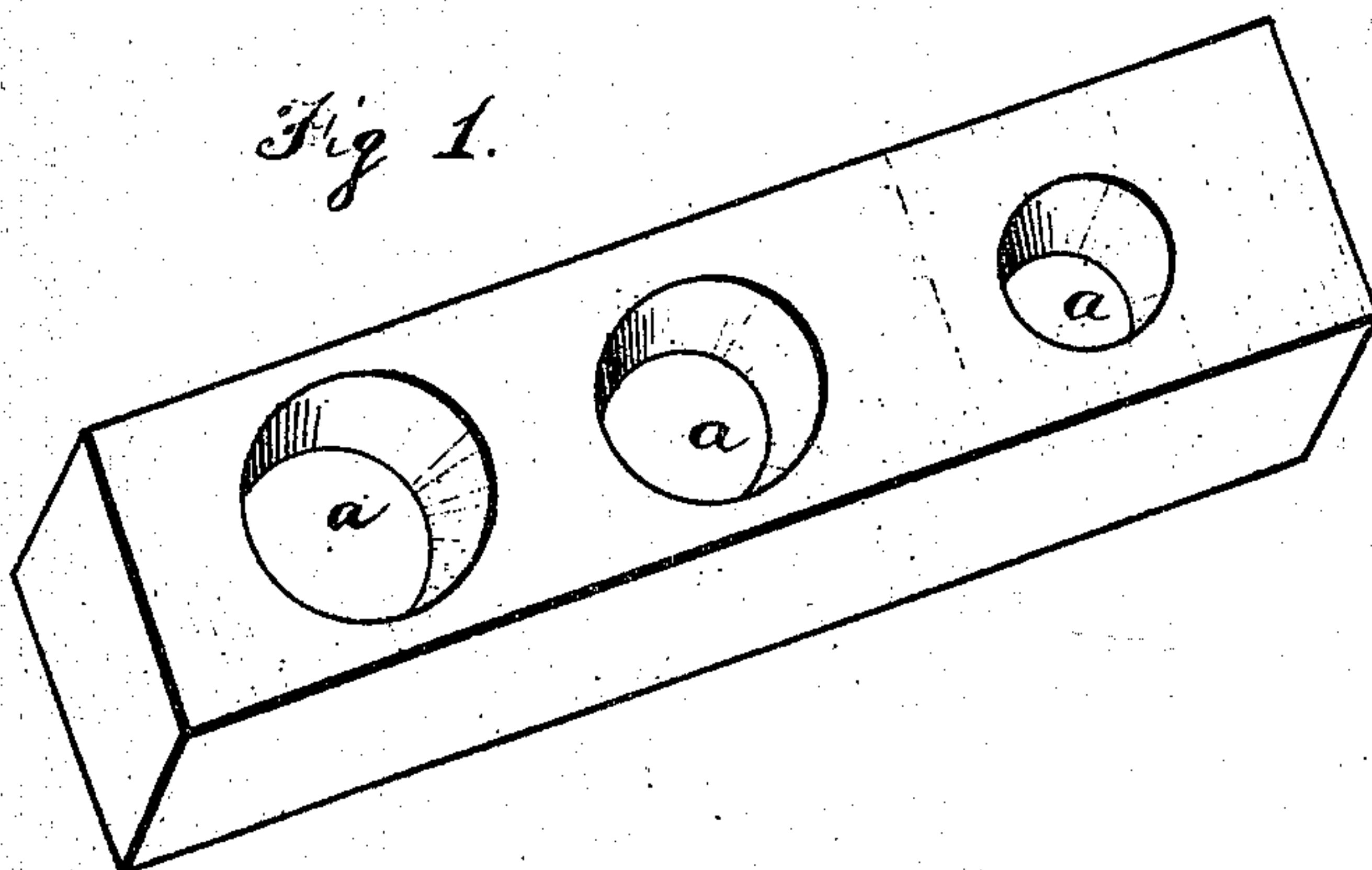


Fig 2.

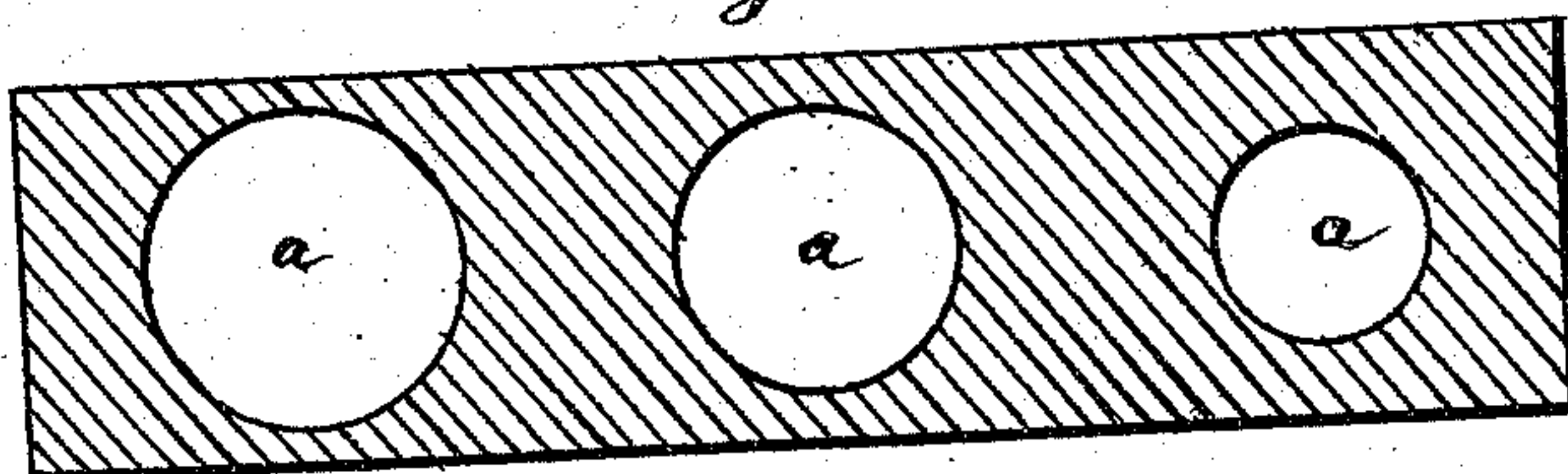
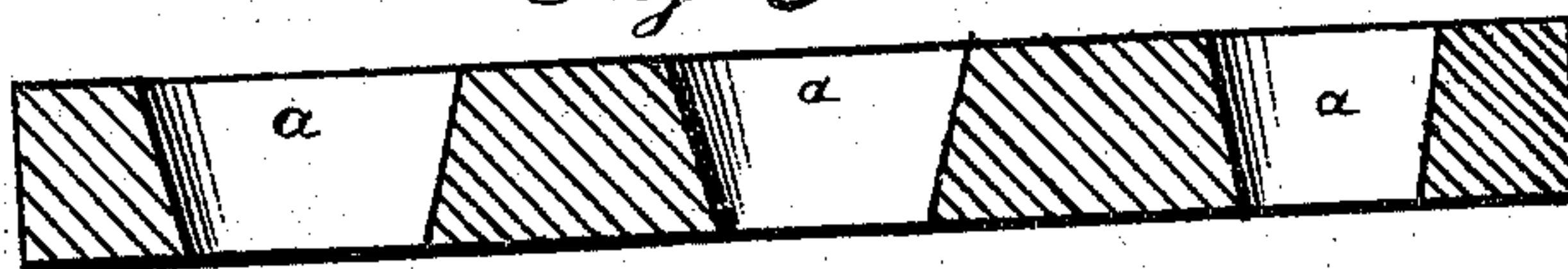


Fig 3.



Witnesses

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EDGAR K. HAYNES, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN NEEDLE-SHARPENERS.

Specification forming part of Letters Patent No. **104,732**, dated June 28, 1870.

To all whom it may concern:

Be it known that I, EDGAR K. HAYNES, of Boston, in the county of Suffolk, State of Massachusetts, have invented a new and Improved Needle-Sharpener; and I do hereby declare that the following is a full and exact description thereof, sufficient to enable those skilled in the art to make and use it, reference being had to the accompanying drawings and letters of reference marked thereon.

It is a well-known fact that the largest proportion of sewing-machine operatives are not able to sharpen their own needles properly, if at all; and the constant breaking of the points of the needles is the cause of great delay and annoyance, as the largest proportion of operatives have to employ the services of others to sharpen their needles, or throw them away. It is to obviate this difficulty that my invention relates.

The nature of my invention consists in making one or more holes in the common whetstone or emery-block or other material that may be used to whet a needle on. It is preferable that the holes should be larger on one end than on the other, or, in other words, tapering, as shown at *a*, Fig. 3. By making the holes quite large a straight hole would

work nearly, if not quite, as well as a tapering one, for the incline of the needle while going around the sides of a large hole would give the requisite amount of taper. I prefer the tapering hole only on account of being smaller, therefore making the stone cheaper.

In the accompanying drawings, Figure 1 is a perspective view of a whetstone with three holes in it of different sizes. Fig. 2 is a plan or top view. Fig. 3 is a vertical transverse section through the centers of the holes.

The method of operating with this needle-sharpener is to hold a stone in one hand and the needle in the other. Place the point to be sharpened into the large end of the hole. Hold the needle rigidly between the fingers, and rub it around the sides of the hole until it is sharp. By this means any machine-operators can sharpen their own needles properly in a few moments at a very slight expense.

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

The device herein described for sharpening needles, substantially as set forth.

EDGAR K. HAYNES.

Witnesses:

O. F. CRANE,
W. C. MURDOCH.