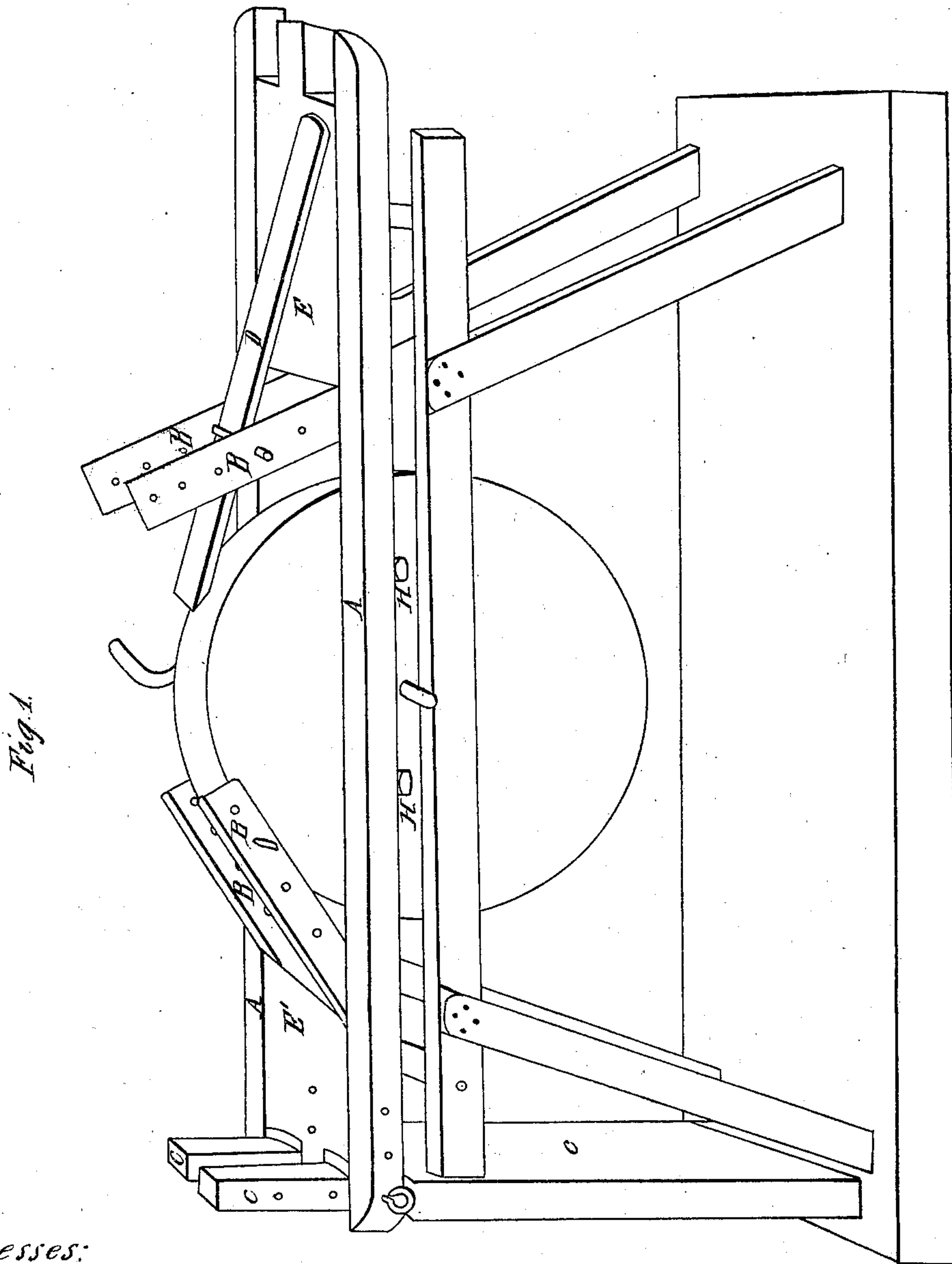


H. K. Trash.

Sharpening Mach.

N^o 88,679.

Patented Apr. 6, 1869.



Witnesses:

S^r Broder
Theobald

Inventor:

H. K. Prask.

United States Patent Office.

H. K. TRASK, OF BEAVER DAM, WISCONSIN.

Letters Patent No. 88,679, dated April 6, 1869.

IMPROVEMENT IN DEVICE FOR GRINDING EDGED TOOLS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, H. K. TRASK, of the city of Beaver Dam, in the county of Dodge, in the State of Wisconsin, have invented a new and improved Mode of Holding Edged Tools on Grindstones; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, the same letters referring to similar parts of the machine.

The nature of my invention consists in providing a grindstone with an adjustable frame to hold the edged tools upon the stone, thus requiring the labor of but one person to do the grinding.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

This frame consists of two side-pieces A A, in the figure, about an inch square, and of a length depending upon the diameter of the stone, made of any suitable material, and also two end-pieces E E, in the figure, fastened between the side-pieces, as shown in the figure.

There are also four strips B B B B, two attached to each side-piece A A, as in the figure, so as to strike when raised, against the end-pieces E E, and be held at any desired angle.

These strips have holes about one-half inch apart, as shown in the figure. Through these holes passes a rod, or rods, as shown in the figure.

This frame has also pin, or screw-holes in the end, as at E', for the purpose of fastening the frame to a post standing against, and fastened to the end of the grindstone-frame, as shown in the figure.

The operation of the frame is as follows :

The frame being placed over the stone, and fastened by one end to the post, as in the figure, the tool can be placed under the rod, with the edge resting upon the stone, and the opposite part upon E E.

This rod can be placed higher up or lower down in the strips, so as to give any desired bevel to the edge of the tool.

The unfastened end of the frame can be swung to

and fro while the stone is turned, thus bringing every part of the edge, whether circular or straight, in contact with the stone, and preserving the same bevel.

Plane-irons, chisels, axes, hatchets, and many other bevelled tools can be ground in this manner, with perfect ease by one person, and a more perfect bevel can be obtained, even by an inexperienced grinder, than in any other way.

If the weight of the frame does not give sufficient pressure upon the tool, the hand can be placed upon the free end of the frame, or a small weight placed upon it.

For grinding scythes, hay-knives, sickle-bars, draw-shaves, &c., the whole frame must be elevated, so as to be even with the top of the stone. These tools can then be passed under the frame, and over the stone, the back of the tool resting against the peg H, to prevent its slipping.

These pegs H H are movable, so that any desired bevel can be given to the tools.

When the frame is in this position, its end must be securely fastened to the post to prevent its swinging.

If the frame be lowered, and the rod placed in the upper holes of the strips, so that the rod will rest upon the upper part of the stone, many tools and instruments of steel or iron, whose thinness or elasticity renders them very difficult to be ground, can be ground with perfect ease and pleasure, the rod resting upon the article to be ground, exactly above the point of contact with the stone.

In this manner one person can grind or polish many articles with the greatest ease, which would be very difficult for two in any other way.

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

The combination of the swinging bars B, having the adjustable pins, with the pieces E, and frame A, arranged and applied to a grindstone, in the manner described for the purposes specified.

H. K. TRASK.

Witnesses:

S. V. BROBST,

THEO. B. CATLIN.