

(No Model.)

P. J. CAESAR.
DEVICE FOR SHARPENING RAZORS.

No. 529,320.

Patented Nov. 13, 1894.

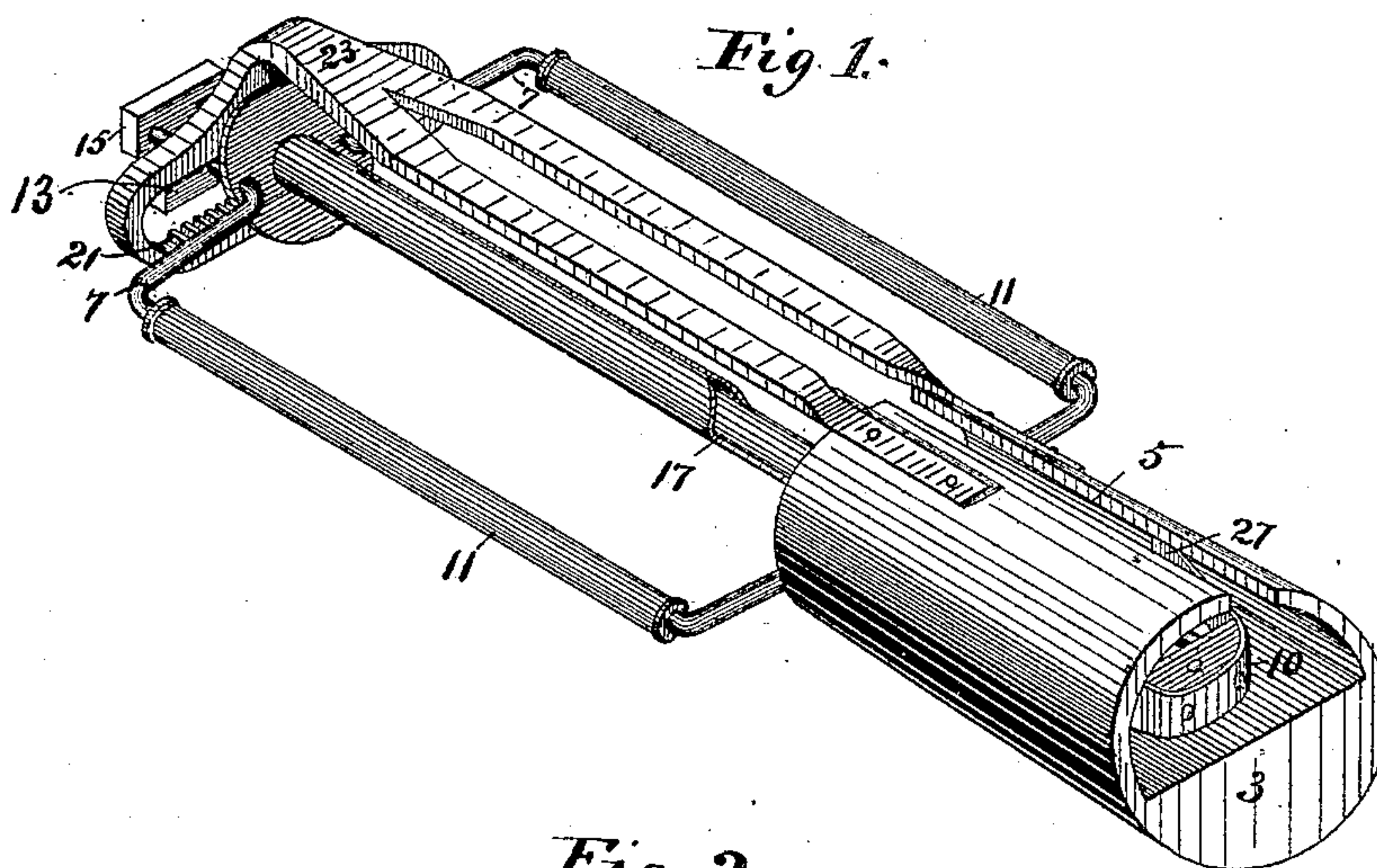


Fig. 2.

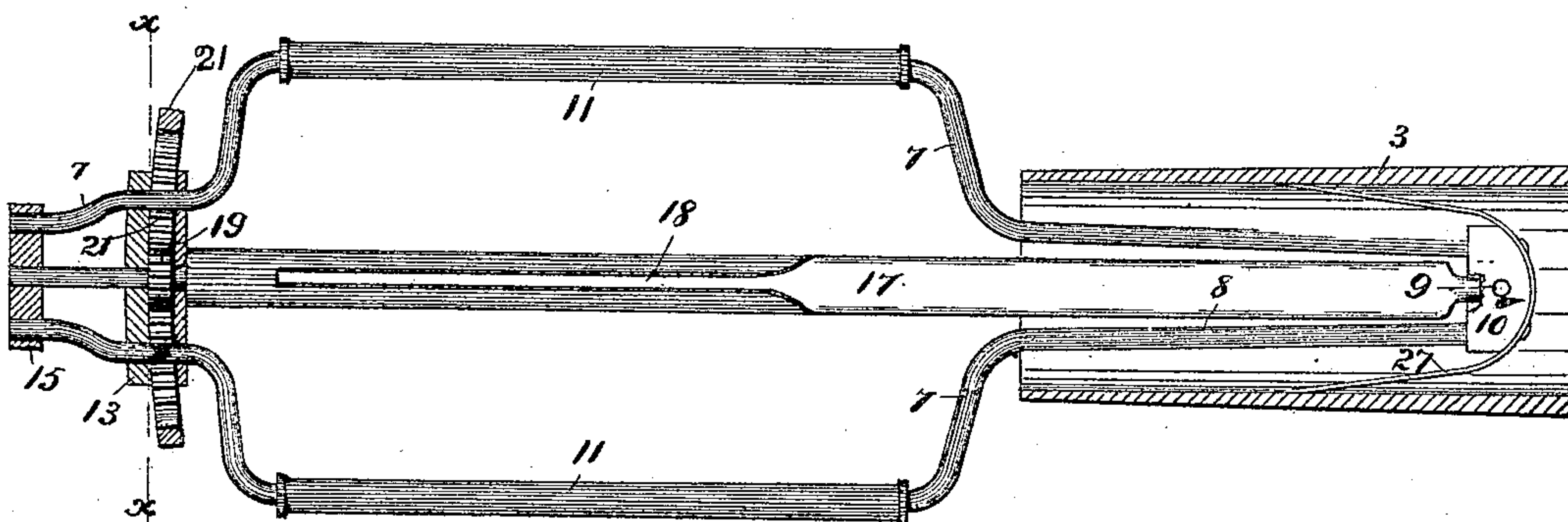


Fig. 3.

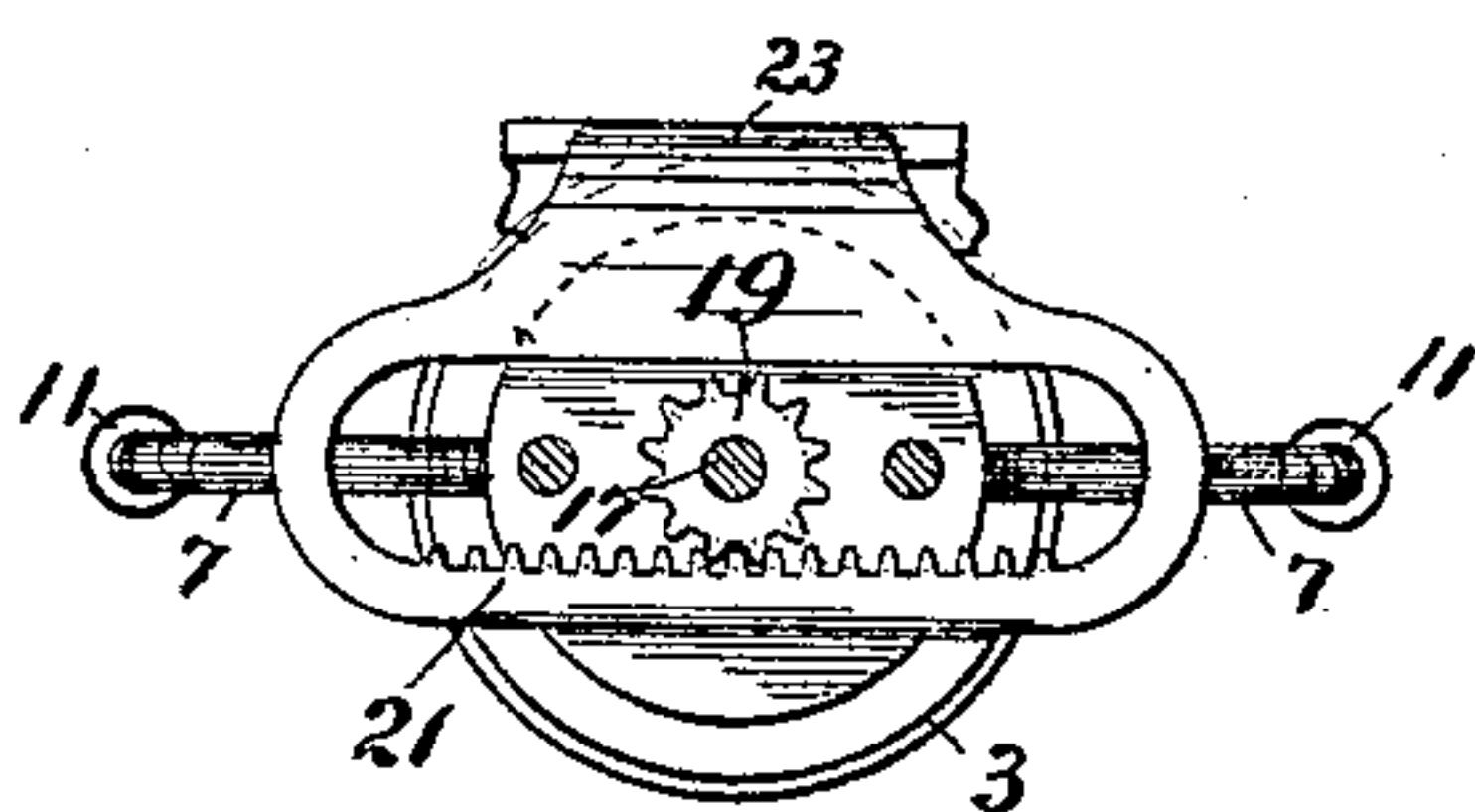
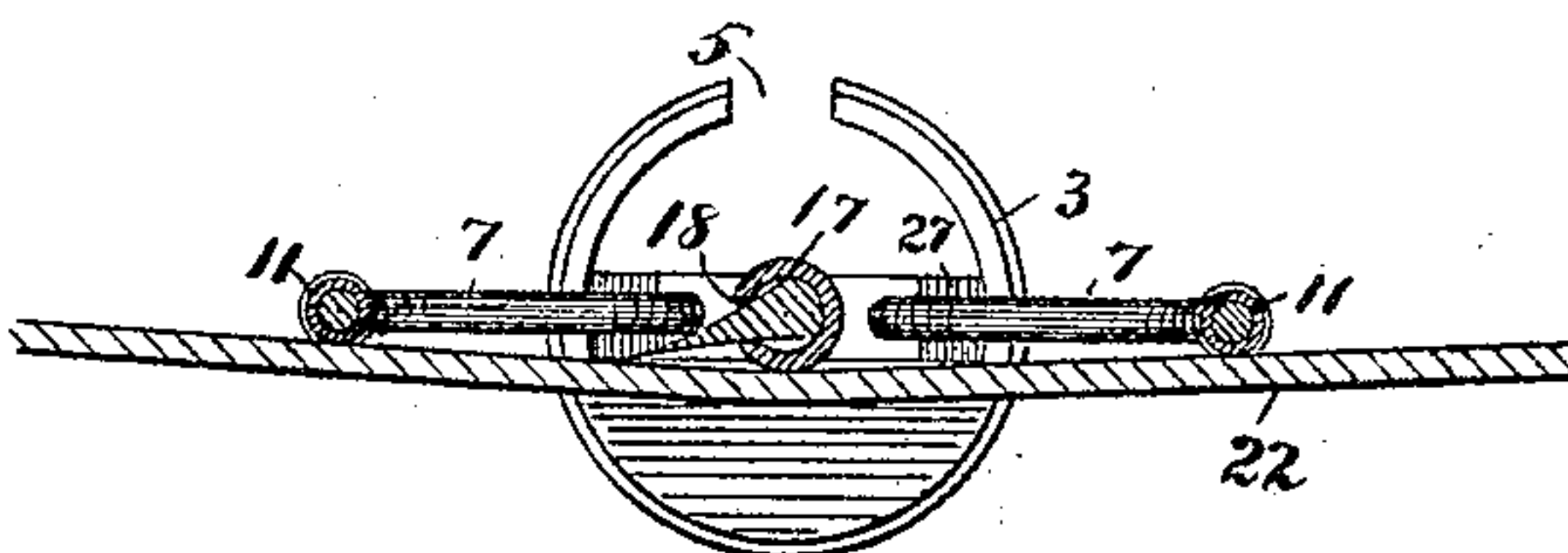


Fig. 4.



Witnesses.

J. Jernan.
a.m. Gaskill

Inventor

Peter J. Caesar.

By Paul & Merrin att'ys.

UNITED STATES PATENT OFFICE.

PETER JOHN CAESAR, OF FERGUS FALLS, MINNESOTA, ASSIGNOR OF FIVE-EIGHTHS TO ANDREW B. PETERSON AND CHARLES ELG, OF SAME PLACE.

DEVICE FOR SHARPENING RAZORS.

SPECIFICATION forming part of Letters Patent No. 529,320, dated November 13, 1894.

Application filed October 23, 1888. Renewed October 4, 1894. Serial No. 524,927. (No model.)

To all whom it may concern:

Be it known that I, PETER JOHN CAESAR, manufacturer, a citizen of the United States, and a resident of Fergus Falls, in the county of Otter Tail and State of Minnesota, have invented certain new and useful Improvements in Devices for Sharpening Razors, of which the following is a specification.

This invention relates particularly to improvements in devices designed to be used in sharpening razors, knives, or similar articles, and the object I have in view is to provide a device by which any person, no matter how unskillful he may be, may quickly and properly sharpen the razor or knife; and the invention consists generally in the construction and combination hereinafter described and particularly pointed out in the claims.

In the accompanying drawings forming a part of this specification, Figure 1 is a perspective view of my devices. Fig. 2 is a plan of the device, the upper part being removed. Fig. 3 is a section on the line $x-x$ of Fig. 2. Fig. 4 is a transverse section through the tool holder.

The present invention is an improvement upon that shown and described in my Patent No. 382,027, granted May 8, 1888.

In the drawings, 3 represents the handle of my device which may be of any suitable size and shape and formed of any suitable material. The upper part of the handle, is preferably provided with a longitudinal slot 5 as shown in Figs. 1 and 4, through which the blade of the razor to be sharpened is inserted. The handle is of sufficient size to contain the handle of the razor being sharpened, and to permit it to turn therein as the blade is reversed in the act of sharpening.

8 represents the frame formed preferably of the oppositely arranged rods 7, which are joined together at one end by a block 10 forming a part of the frame 8, and at the other end by the blocks 13 and 15, also forming parts of said frame. This frame 8 is pivoted at 9 in the handle 3, so as to have lateral play therein, as the device is moved back and forth over the strop 22, and it is provided with friction rollers 11 journaled on the rods 7. These rollers are important, because they run along a strop and actuate the reversing connections,

and through them the reversible holder. These rollers avoid unnecessary friction between the strop and reversing connections.

17 represents the razor holder, which is centrally journaled in the frame 8, on its longitudinal axis, having bearing at one end in the block 10 and at its other end in the blocks 13 and 15. This holder, for a portion of its length, is of tubular form and is formed with a slot 18 through which the edge of the razor projects. Rigidly secured on the holder 17, is a pinion 19 which meshes in a rack 21 on the downwardly projecting portion on one end of a frame 23, which is secured at its other end to the handle 3. By this construction, as the frame carrying the holder is moved back and forth over the strop, the holder is rotated in either direction, by the pinion engaging the rack. To aid the pinion and rack in reversing the blade of the razor, I locate in connection with the vibrating parts and within the handle, a reversely acting spring 27 which, as the frame is moved to one side, returns the said frame and holder to normal central position with relation to the handle.

I have shown a spring of substantially U-shape, and it is arranged within the handle by being attached to the pivoted block 10 and rendered reversely acting by its forwardly projecting spring arms which bear against the sides of the handle so that the spring is deflected by any movement of the frame in either direction.

The manner of using the device is as follows:—A razor or knife is inserted into the tubular portion of the holder 17 with its edge projecting through the slot 18 as shown in Fig. 4. The frame is then placed upon a strapping surface which may be either an ordinary strop 22, as indicated in Fig. 4, or any other suitable device. The operator then moves the device rapidly back and forth over the strop holding it by the handle 3. The friction between the frame 8 and the strop is sufficient to cause the frame to turn upon its pivot 9 and swing in a direction opposite that in which the handle is being moved as far as the opening in the handle will permit. The pinion 19 is thereby moved over the rack-bar 21 and the holder 17 is turned upon its axis

bringing the edge of the blade in proper position upon the strop as shown in Fig. 4. As soon as the movement of the handle ceases the spring 27 returns the frame to its normal position and the holder 17 is thereby turned upon its axis, bringing the edge of the razor away from the strop. The movement of the handle being now reversed the other side of the blade will be brought against the strop and the operation reversed. The device may be moved back and forth over the strop as many times as may be necessary to bring the razor to the desired edge, and as rapidly as desired, without danger of the edge nicking the sharpening surface.

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

1. In a razor sharpening device, the combination of an automatically reversing razor holder, a handle, means for engaging a strop for operating the holder, and a spring acting

on the holder, substantially as and for the purpose set forth.

2. In a razor or knife sharpener, the combination of a suitable handle, an automatically reversing holder for the razor or knife a frame controlling the holder and the spring 27 inserted between said frame and handle and adapted to hold the former centrally in the latter, substantially as described.

3. The combination in a razor or knife sharpener with the handle 3 provided with the longitudinal slot 5 of the holder 17 pivotally supported within said handle and provided with the razor holding portion having the slot 18, substantially as described.

In testimony whereof I have hereunto set my hand this 24th day of September, 1888.

PETER JOHN CAESAR.

In presence of—

CHAS. J. WRIGHT,
A. G. ANDERSON.