

(No Model.)

W. H. McMAHON.
TOOL FOR SHAVING HATS.

No. 504,275.

Patented Aug. 29, 1893.

Fig. 1.

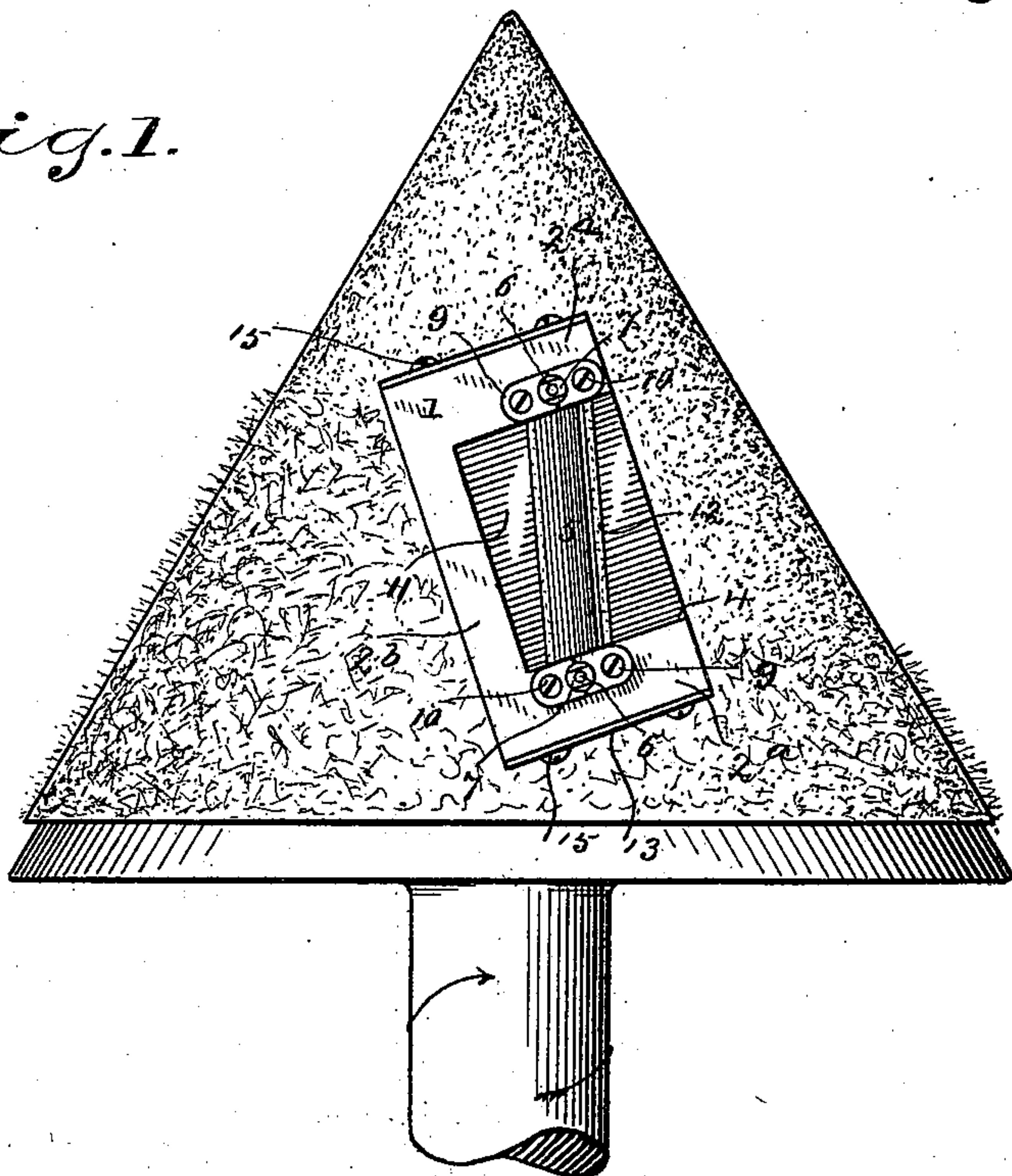


Fig. 2.

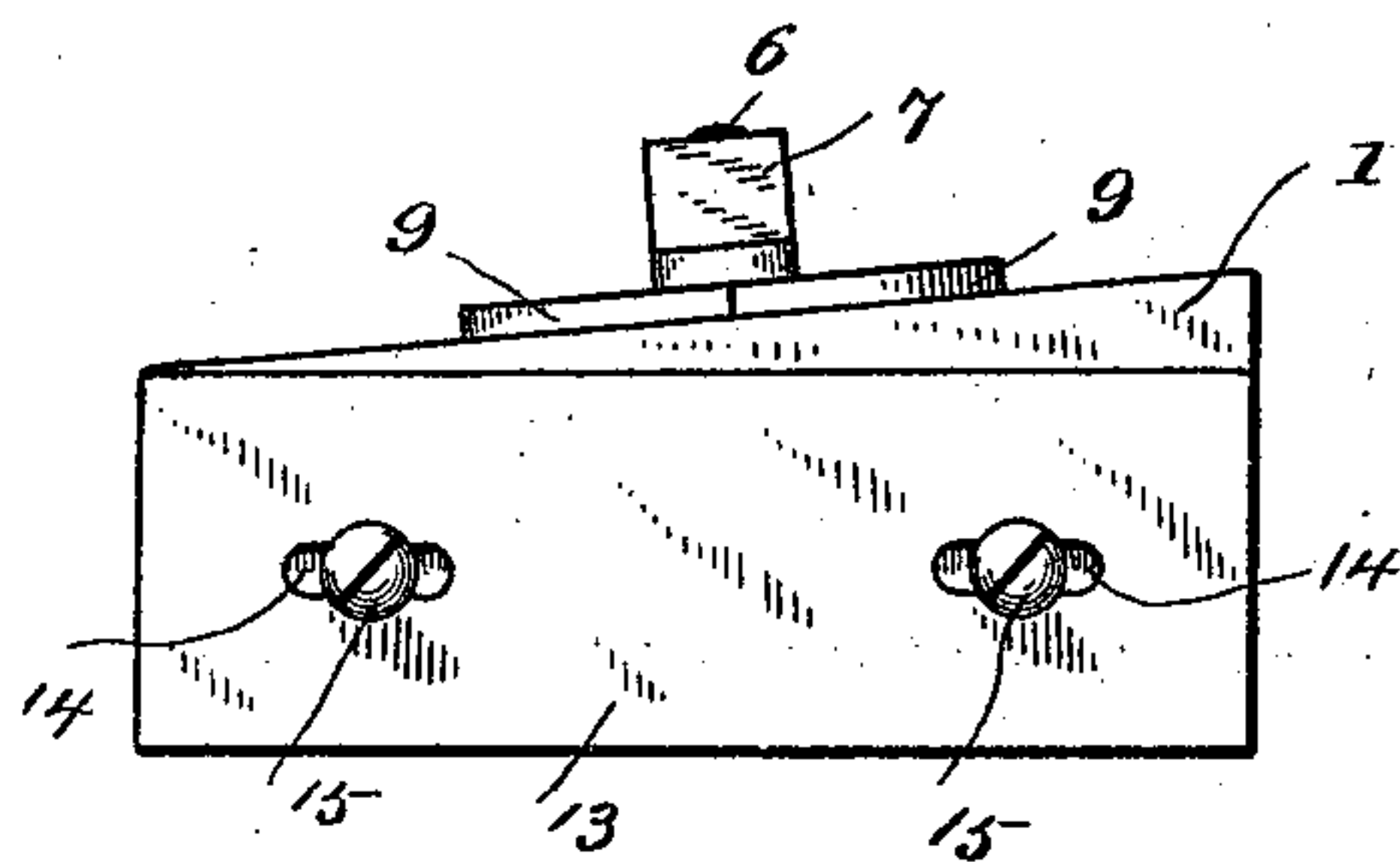


Fig. 4.

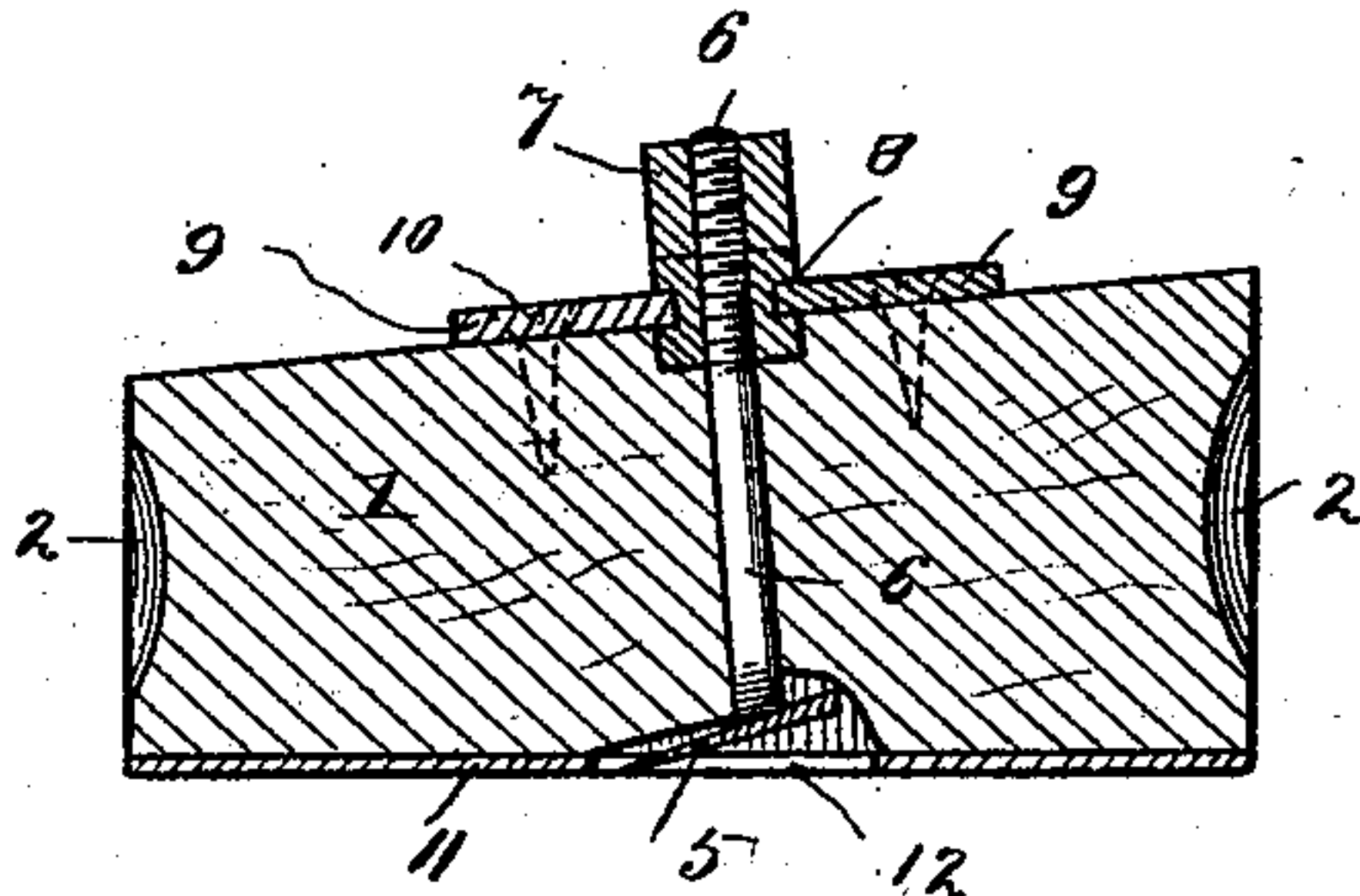
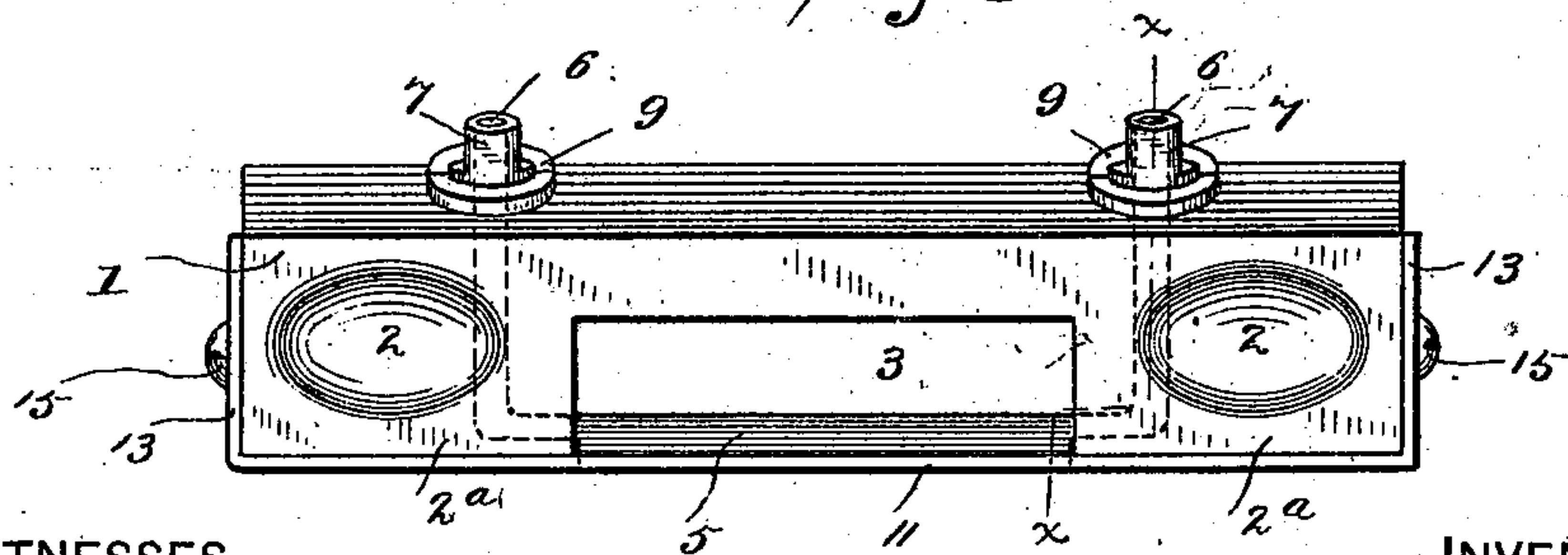


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM H. McMAHON, OF SOUTH NORWALK, CONNECTICUT, ASSIGNOR, BY
DIRECT AND MESNE ASSIGNMENTS, OF ONE-HALF TO SQUIRE DENTON
SEYMOUR, OF SAME PLACE.

TOOL FOR SHAVING HATS.

SPECIFICATION forming part of Letters Patent No. 504,275, dated August 29, 1893.

Application filed March 23, 1893. Serial No. 467,282. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. McMAHON, a citizen of the United States, residing at South Norwalk, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Tools for Shaving Hats; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to produce a tool for shaving hat bodies upon a cone. It is of course well understood that an essential step in the process of manufacturing hats is to remove long hairs from the outer surface thereof. Heretofore this operation has only been performed mechanically by means of complicated machinery which has not gone into general use owing to its expense, to the difficulty of running it, and more important still to the fact that while hats in the same lot always vary considerably in thickness and texture the machine necessarily shaves all to a uniform thickness without regard to the original thickness of the body.

In practice the operation is almost entirely performed by hand the hat bodies being laid upon the lap of the operator and shaved by means of a long knife. This operation is a slow one and necessarily adds perceptibly to the cost of manufacture. In order that I may be enabled to perform this operation mechanically but in a simple and inexpensive manner and without the use of complicated and expensive automatic machinery I have devised the simple and novel tool to be used in connection with a revolving cone, of which the following description in connection with the accompanying drawings is a specification, numbers being used to designate the several parts.

Figure 1 is a view showing a partially shaved hat body upon a cone and showing the mode of operation of my novel tool, a portion of the body being shown as shaved and a portion as not shaved; Fig. 2 an end elevation of my novel tool; Fig. 3 a front elevation thereof, and Fig. 4 is a section on the line xx in Fig. 3.

1 denotes the body which may be made of

metal or of wood and is shown as provided with depressions 2 to receive the fingers of the operator so that it may be gripped more firmly. The shape of the body is of course not of the essence of my invention. In practice I find the shape shown in the drawings to be convenient and satisfactory in every way, said shape consisting practically of two end pieces 2^a which are connected by a cross piece 2^b , a transverse opening 3 being provided under the cross piece, and the metal of the body being entirely removed back of the cross piece leaving an opening 4 which enables the operator to watch the cutter while the tool is in use.

5 denotes the cutter which is preferably tilted forward as shown in Fig. 4 and placed obliquely to opening 4 in the body as shown in Fig. 1.

As already stated the shape of the body is not of the essence of my invention.

At the ends of the cutter are threaded shanks 6 which are bent at right angles and extend upward from the body. At the upper ends of the shanks are nuts 7 which are provided with annular grooves 8 which are engaged by locking pieces 9 the locking pieces being secured to the body by screws 10. It will be seen that rotation of the nuts which are held against other than rotary movement by the locking pieces, will raise or lower the shanks and cutter as may be required.

As already stated the shape of the body is not of the essence of my invention. I preferably however for convenience in use make the body thickest at the back and inclining forward as clearly shown. I also preferably make the openings through the body for shanks 6 at right angles to the inclined top of the body instead of at right angles to the base of the body.

11 denotes a guard plate which is provided with an opening 12 in which the cutter lies and with end pieces 13 which engage the ends of the body and are provided with slots through which screws 15 pass whereby the guard plate is adjustably secured to the body. It will of course be apparent that the quantity of long hairs that can be operated upon by the cutter and the closeness of the cut will

depend upon the adjustment of the guard plate relatively to the cutting edge as well as to the adjustment of the cutter itself.

As already stated the cutter is adjusted up
5 or down relatively to the guard plate as may be required by turning nuts 7 and the guard plate is adjusted toward or from the cutter by loosening screws 15 and moving it to the required position. When properly adjusted the
10 guard plate is locked in position by tightening up screws 15.

The operation will be clearly understood from the drawings. The hat body to be shaved is placed upon a rotating cone. The operator
15 holds the tool in approximately the position illustrated in the drawings, that is parallel to a line extending from the base of the cone to the apex. The tool is held as lightly or as closely in contact with the body as may be re-
20 quired, that being a matter entirely within the discretion of the operator. The movement of the tool in use is preferably from the apex of the cone downward toward the base, the rapidity of movement of the tool depending of

course upon the quality of the body and the 25 rapidity with which the cone is rotated.

Having thus described my invention, I claim—

A hat shaving tool comprising the body having the central portion cut away, forming 30 an opening 4, extending from top to bottom and leaving a connecting bar 2^b and end pieces 2^a, projecting therefrom with the opening 3 below said connecting bar, the guard plate connected adjustably at its ends to the end 35 pieces and extending under the cut away part 4, forming the bottom of the cavity and having a longitudinal opening the knife arranged in said opening and the shanks at the ends of the knife passing through the end pieces and 40 adjustably held thereto, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. McMAHON.

Witnesses:

FRED. H. ROWAN,

H. WILFRED BODWELL.