No. 660,589. Patented Oct. 30, 1900.

W. C. READ.

HOLDING DEVICE FOR BRUSH BLANKS.

(Application filed May 25, 1899.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

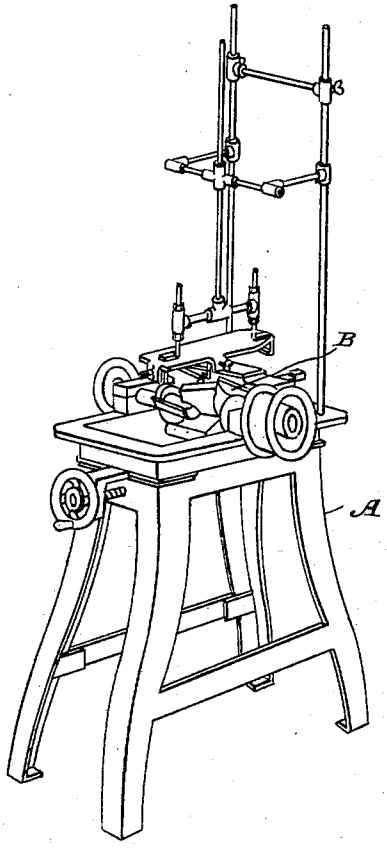
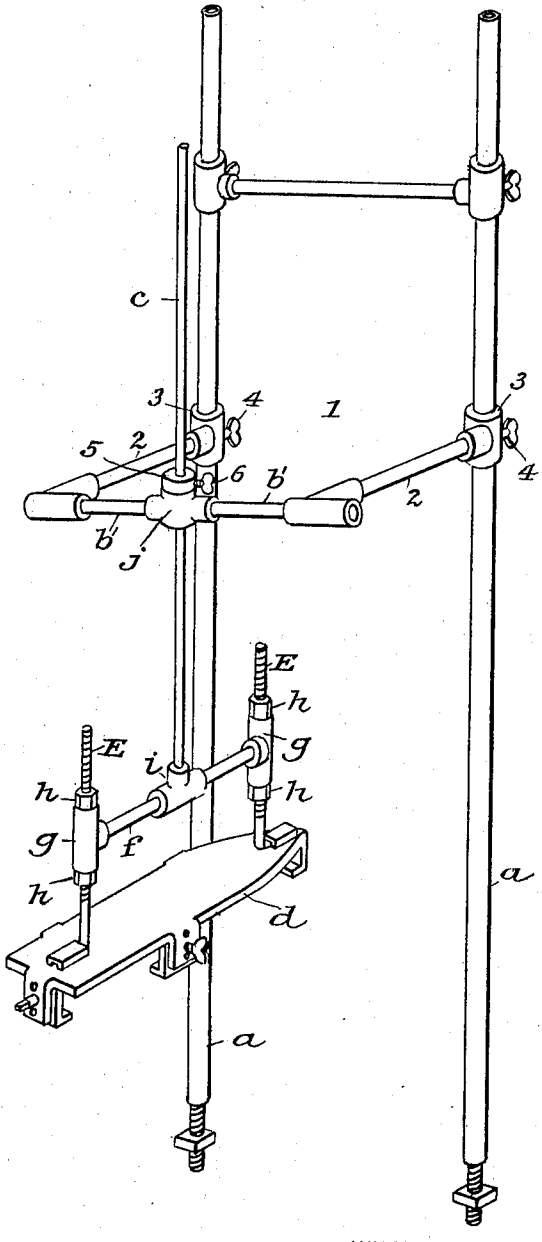


Fig. 2.



WITNESSES:

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Walter C. Read

BY Richards & Co

ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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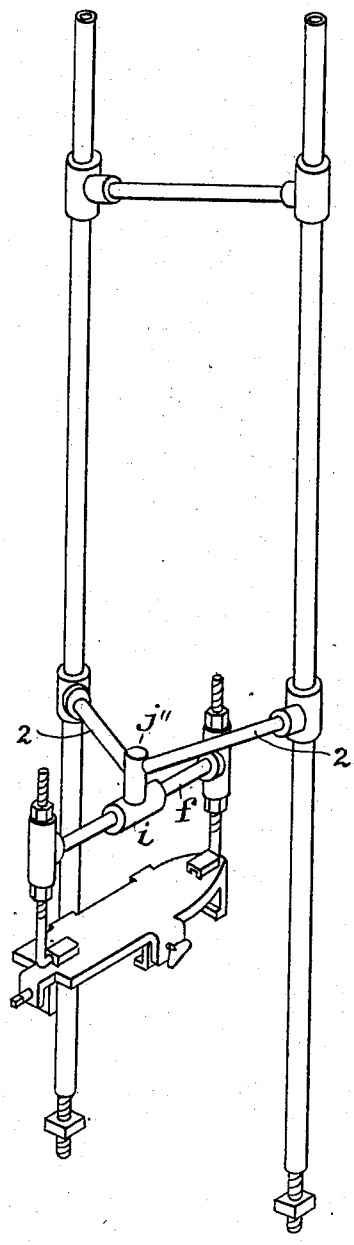
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Fig. 3.



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UNITED STATES PATENT OFFICE.

WALTER C. READ, OF NEWARK, NEW JERSEY.

HOLDING DEVICE FOR BRUSH-BLANKS.

SPECIFICATION forming part of Letters Patent No. 660,589, dated October 30, 1900.

Application filed May 25, 1899. Serial No. 718,273. (No model.)

To all whom it may concern:

Be it known that I, WALTER C. READ, a citizen of the United States, residing at Newark, in the State of New Jersey, have invented Improvements in Holding Devices for Brush-Blanks, of which the following is a specification.

My invention relates to holding devices for brushes and the like, and is intended to cooperate with a trimmer or cutter which is adapted normally to trim or cut brushes to a flat surface, the special purposes of the improvement being to provide means whereby the cutting or trimming machine may be used for trimming brushes to a curved face.

In the accompanying drawings, Figure 1 represents the invention in perspective as applied to a cutting machine having straight-edged cutters which are adapted to cut flat faces on the blank. Fig. 2 is an enlarged view of the improvement detached from the machine, and Fig. 3 is a view similar to Fig. 2 of a modification.

The cutting-machine may be of any ordinary type comprising a standard A and rotary cutters B, which are adapted to cut or trim flat faces on the brush. At one end of the table standards *a* extend vertically, and these carry a bracket 1 made up of arms 2 and a cross-bar *b'*, the said arms being held by collars 3 adjustably secured to the standard *a* by thumb-screws 4. The cross-bar *b'* carries a hanger *j*, through which a rod *c* extends, being supported adjustably by a collar 5, resting upon the hanger *j* and secured to the rod by a thumb-screw 6. The rod *c* carries at its lower end a bearing, through which a bar *f* extends, and this bar has sleeves *g* at its ends, through which extend vertically the rods E, to the lower ends of which a brush-holder *d* is secured. The vertical position of the rods E is determined and fixed by nuts *h* engaging screw-threads on the rods above and below the sleeves *g*. The brush-holder may be of any ordinary form, having suitable clamping means to hold the brush directly over the cutters, as shown in Fig. 1. The bar *f* has rocking movement in the bearing *i*, so that by moving the brush-holder laterally it will swing in the arc of a circle, of which the axis of the rod *f* is the center, and thus a laterally-curved face may be given to the brush-blank. The hanger *j* is loosely journaled upon the cross-bar *b'* of the bracket 1, and as this cross-bar extends in a plane at right angles to the plane of the rocking bar *f* the brush-holder may be given a swinging movement from front to rear, so as to describe an arc the center of which will be the axis of the hanger *j*. From this construction it will be seen that a curved face may be formed on the brush both laterally and longitudinally.

In Fig. 3 is shown a modification which relates more particularly to the form of the supporting-bracket, this consisting in this instance of converging arms 2, having a hanger *j''* at the meeting-point of the arms, from which the support for the holder is hung. In this form the bar *f* not only has rocking movement to present the brush-blank laterally to the cutters in the arc of a circle, but the bar *f* may slide longitudinally in the bearing *i*, so that all parts of the brush-blank may be brought over the knife by sliding the bar *f* in the bearing *i*. In this form the brush will be cut on a curve in one direction only, and the rounded surface of the blank will form a portion of a cylinder.

I claim as my invention—

1. In combination, the standards, the bracket vertically adjustable thereon, and the holder suspended from said bracket and capable of having a longitudinal reciprocating movement and a transverse swinging movement, substantially as described.

2. In combination, the standards, the bracket, the bearing suspended from said bracket and the holder having a rod slidably and rotatably mounted in said bearing whereby said holder may be reciprocated longitudinally and swing transversely in the arc of a circle, substantially as described.

3. In combination, the holder, the bearing *i*, the rod *f* turning therein, means connecting the rod with the holder, the rod *b'* extending in a plane at right angles to the rod *f*, the hanger *j'* turning about the rod *b'*, the vertically-extending rod *c* held by the hanger *j'*

and connected at its lower end to the bearing *i*, substantially as described.

4. In combination, the brush-holder, the bearing *i*, the rod *f* journaled therein and connected with the holder, the rod *c* extending upwardly from the bearing *i*, the hanger *j* for holding the rod *c*, the cross-rod *b'* about which the hanger may turn, the adjustable arms 2 and the standards *a* to which the arms are secured, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WALTER C. READ.

Witnesses:
H. L. BEIL,
OTTO MUNK.