

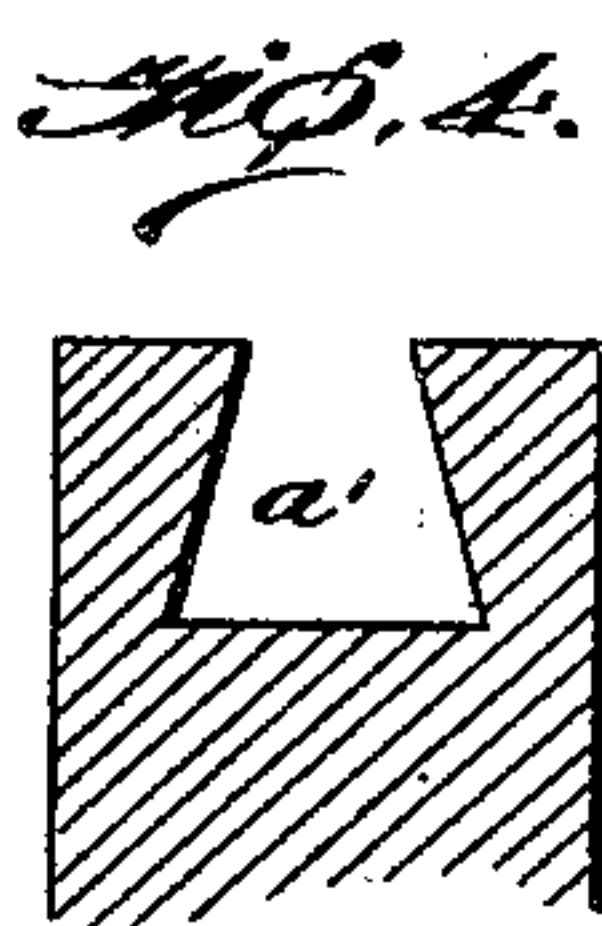
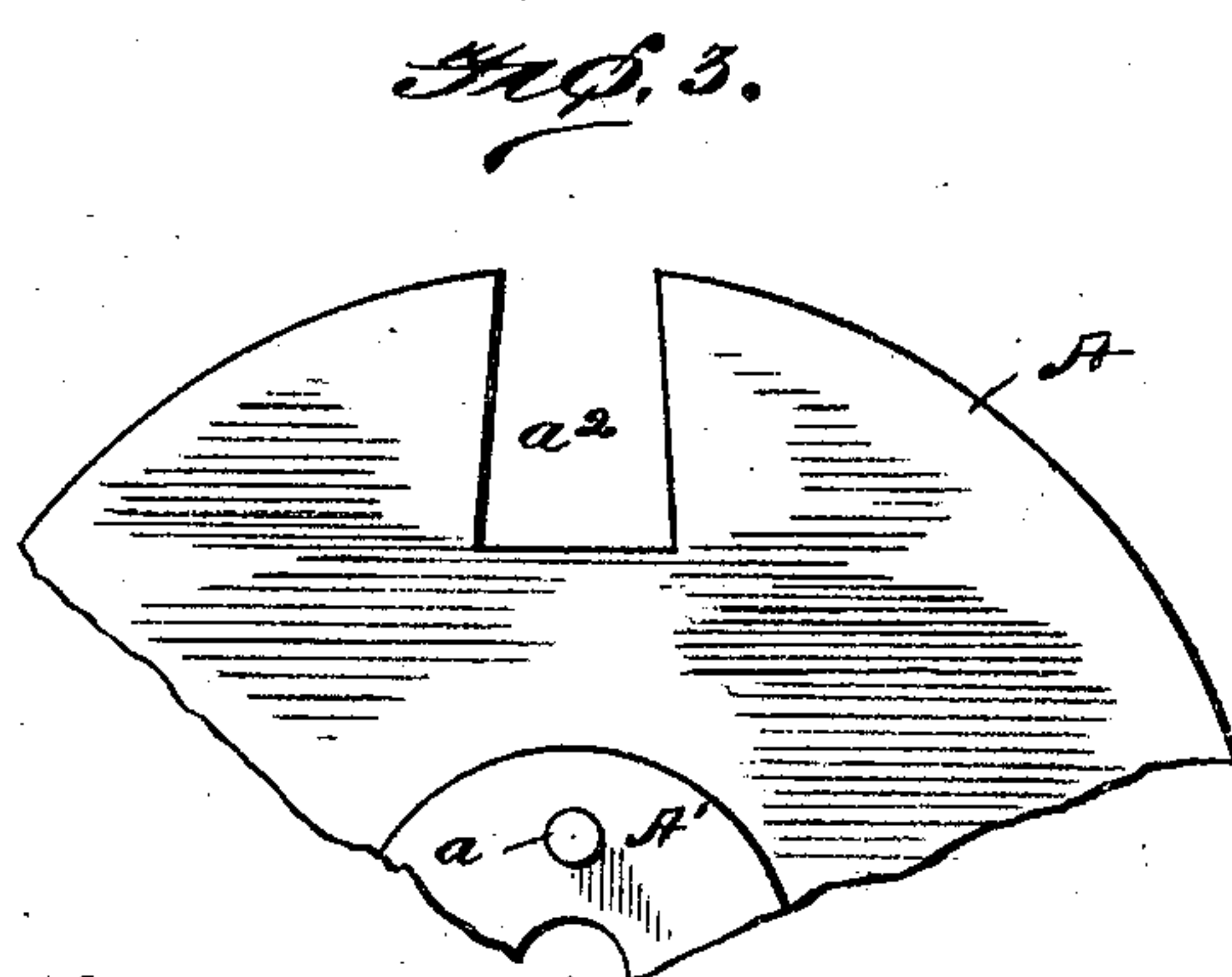
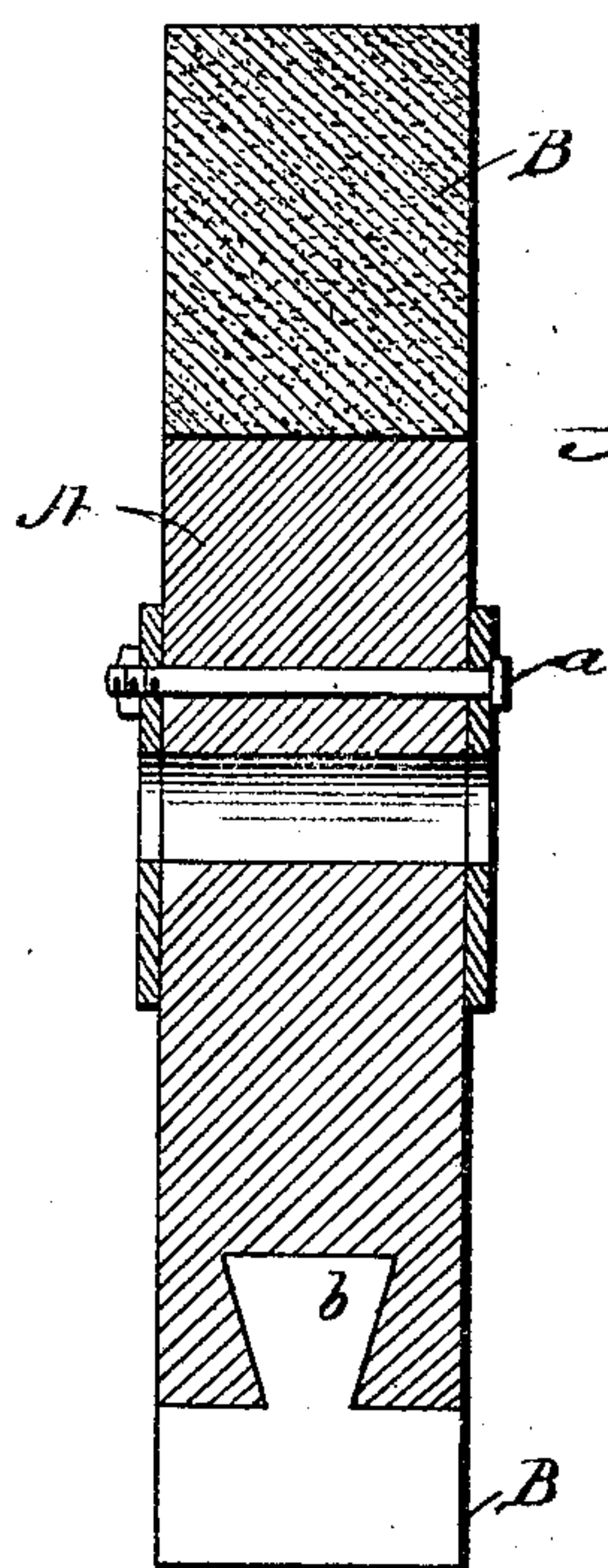
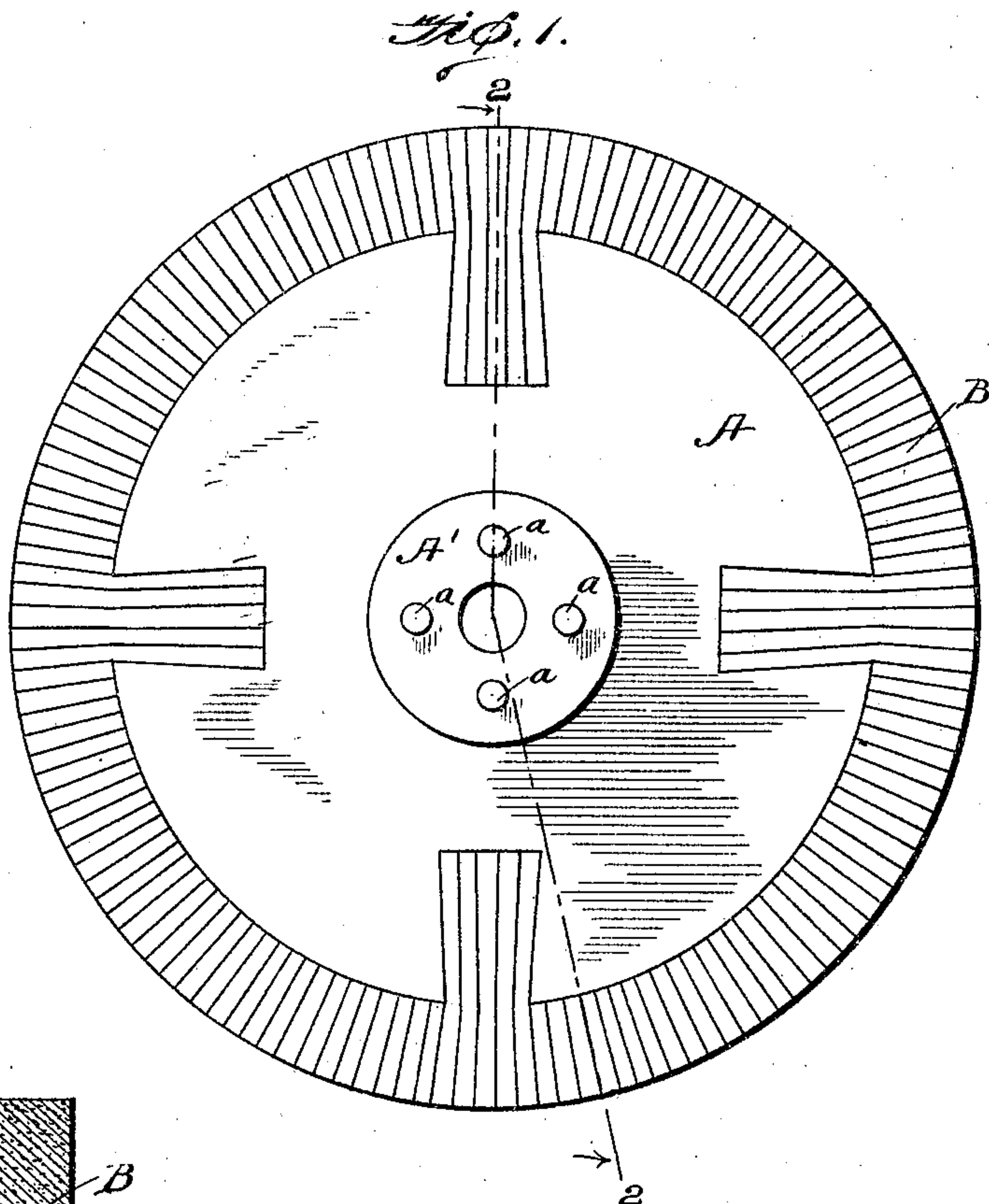
No. 770,199.

PATENTED SEPT. 13, 1904.

L. F. THOMPSON.
POLISHING WHEEL.

APPLICATION FILED MAR. 30, 1904.

NO MODEL.



Witnesses
Chas. G. Hurst
Katie Hurst

Inventor
L. F. Thompson,
by *E. W. Bradford*—
Attorney

UNITED STATES PATENT OFFICE.

LEE F. THOMPSON, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF TWO-THIRDS TO EDGAR J. HICKS, OF INDIANAPOLIS, INDIANA.

POLISHING-WHEEL.

SPECIFICATION forming part of Letters Patent No. 770,199, dated September 13, 1904.

Application filed March 30, 1904. Serial No. 200,765. (No model.)

To all whom it may concern:

Be it known that I, LEE F. THOMPSON, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Polishing-Wheels, of which the following is a specification.

My said invention consists in an improved construction of polishing or burnishing wheels, such as are ordinarily employed in machines for polishing or burnishing saws, tools, and such like articles, whereby a very perfect wheel of the character is provided at a comparatively minimum cost and one capable of great durability and efficient service, all as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, which are made a part hereof and on which similar reference-letters indicate similar parts, Figure 1 is a side elevation of a polishing-wheel embodying my said invention; Fig. 2, a transverse section through the same looking in the direction indicated by the arrows from the dotted line 2 2 in Fig. 1, and Figs. 3 and 4 detail views illustrating the particular form of grooves and recesses for holding the leather in place.

In said drawings the portions marked A represent the body of the wheel, and B the polishing material, such as leather. The body of the wheel A is preferably a wooden disk reinforced and braced by metal plates A', secured on each side thereof by bolts or rivets *a*. It is formed with a circumferential groove *a'* in its periphery and at intervals with transverse radial slots or recesses *a''*. In the drawings I have shown four of such recesses. It will be evident that a greater or less number may be provided, as best suited to the character of wheel, without departing from my said invention. The circumferential groove *a'* is of the form best shown in Figs. 2 and 4, being wider at the bottom than at the top, or of a dovetail form. The transverse recesses *a''* are also preferably wider at the bottom than at the top for a purpose to be presently described. The polishing-rim B is composed of comparatively thin pieces of suitable ma-

terial, such as leather, cut to fit the respective portions of the rim whereon they are to be employed. Those mounted in the circumferential groove between the transverse radial recesses have dovetail-shaped tongues *b* on their lower sides, which fit within said groove, while those which fit within the transverse radial recesses may be of the form shown at the top in Fig. 2.

The parts of the wheel being provided of the form described, the rim is mounted upon the base or disk by inserting the tongues *b* flatwise in the groove and then turning so that the parts will lie together flatwise, as shown in Fig. 1. The spaces within the recesses *a''* are filled with pieces of material of the form shown at the top of Fig. 1 and are crowded and driven tightly into place, so that the rim of the wheel will be firm and solid. The dovetail formation serves to secure the leathers firmly to the rim of the disk, and the pieces which fit within the radial recesses *a''* being forced in with sufficient pressure their lower ends will expand to fill the widened lower ends of said recesses, which will thus serve to firmly secure the material at these points in place. When it is desired to renew the polishing-rim, it can be very easily and cheaply done by sliding out the pieces of material and inserting new pieces in their places, as will be readily understood.

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

1. A polishing-wheel comprising a disk having a circumferential groove with a widened portion, transverse recesses cut in the periphery of said disk across said groove, said recesses being formed widened toward their inner ends, strips of polishing material formed with tongues corresponding in shape to the circumferential groove and mounted therein between said recesses, and other strips of polishing material of the width of said disk mounted tightly in said recesses with their inner ends expanded into the widened portion thereof, substantially as set forth.

2. A polishing-wheel comprising a disk having a circumferential dovetail-shaped

groove and transverse radially-extending re-
cesses cut in said disk across said groove, pol-
ishing-strips formed to fit in said groove be-
tween said recesses, other strips of polishing
5 material formed to fit in said recesses and se-
cure the material in said groove, said recesses
being formed at intervals around the periph-
ery of the wheel, substantially as set forth.

In witness whereof I have hereunto set my
hand and seal, at Indianapolis, Indiana, this 10
24th day of March, A. D. 1904.

LEE F. THOMPSON. [L. s.]

Witnesses:

H. E. SMOCK,
D. K. HALL.