

(No Model.)

J. H. BUSELL.
BEADING AND BURNISHING TOOL.

No. 451,207.

Patented Apr. 28, 1891.

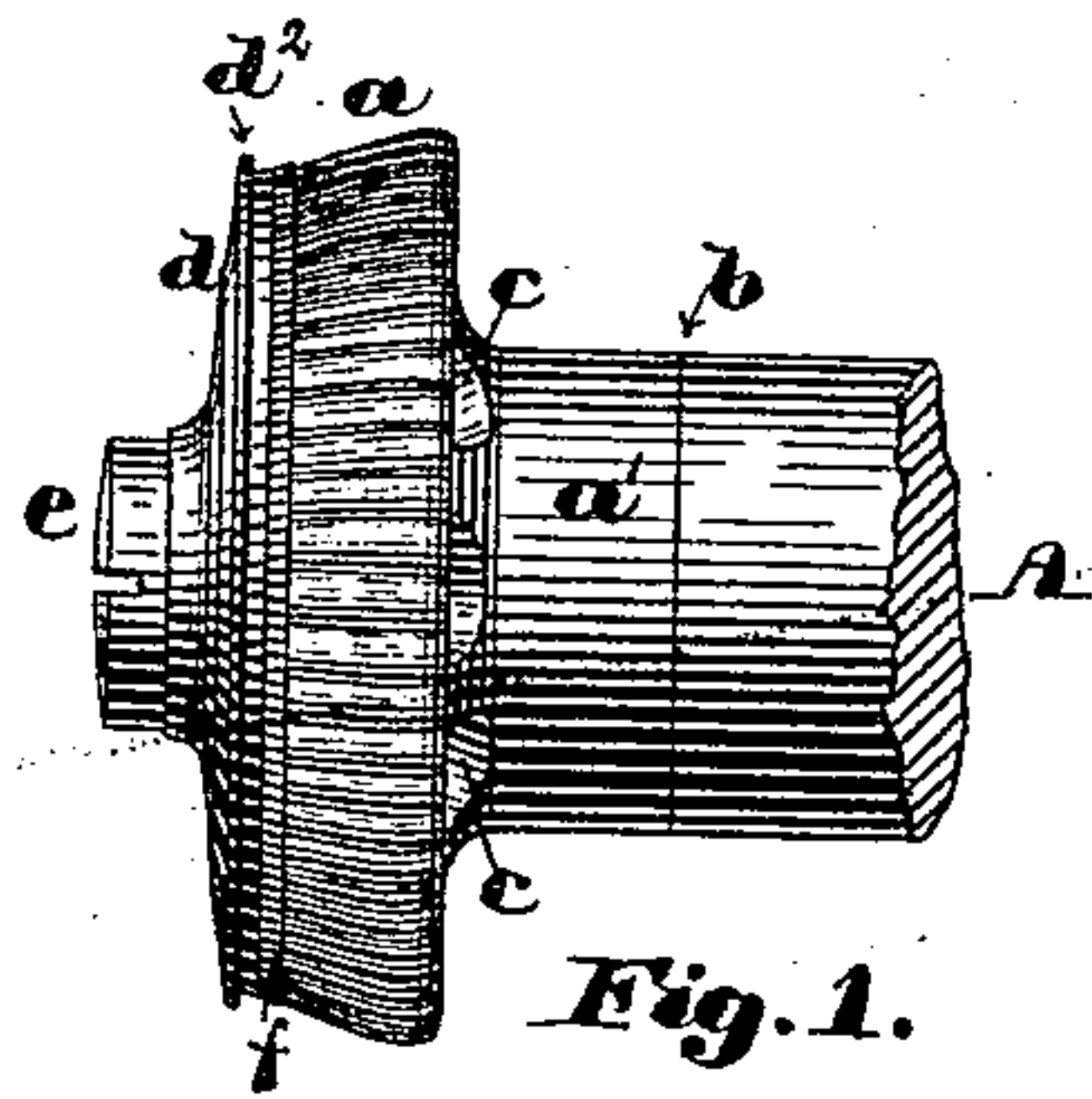


Fig. 1.

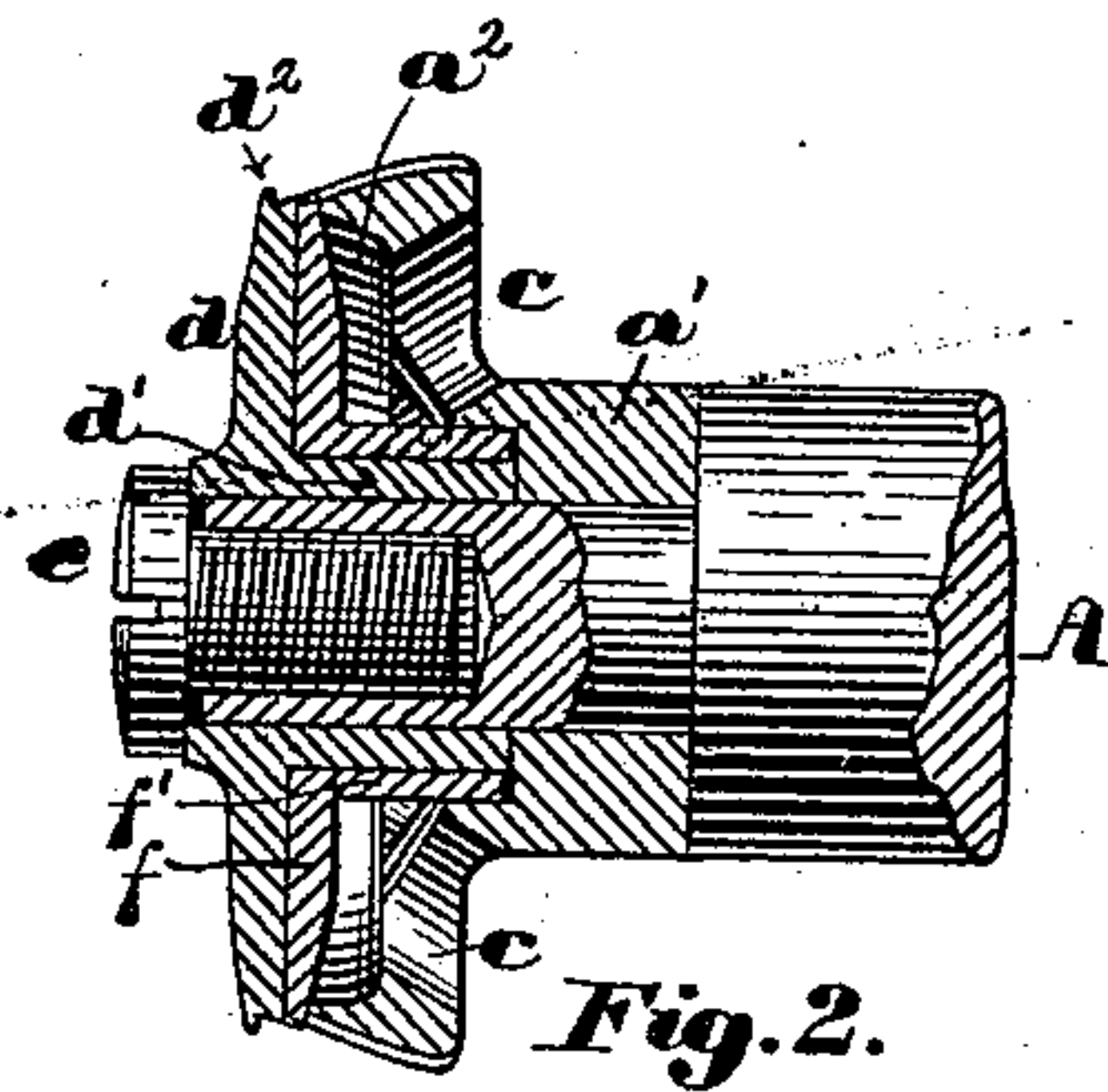


Fig. 2.

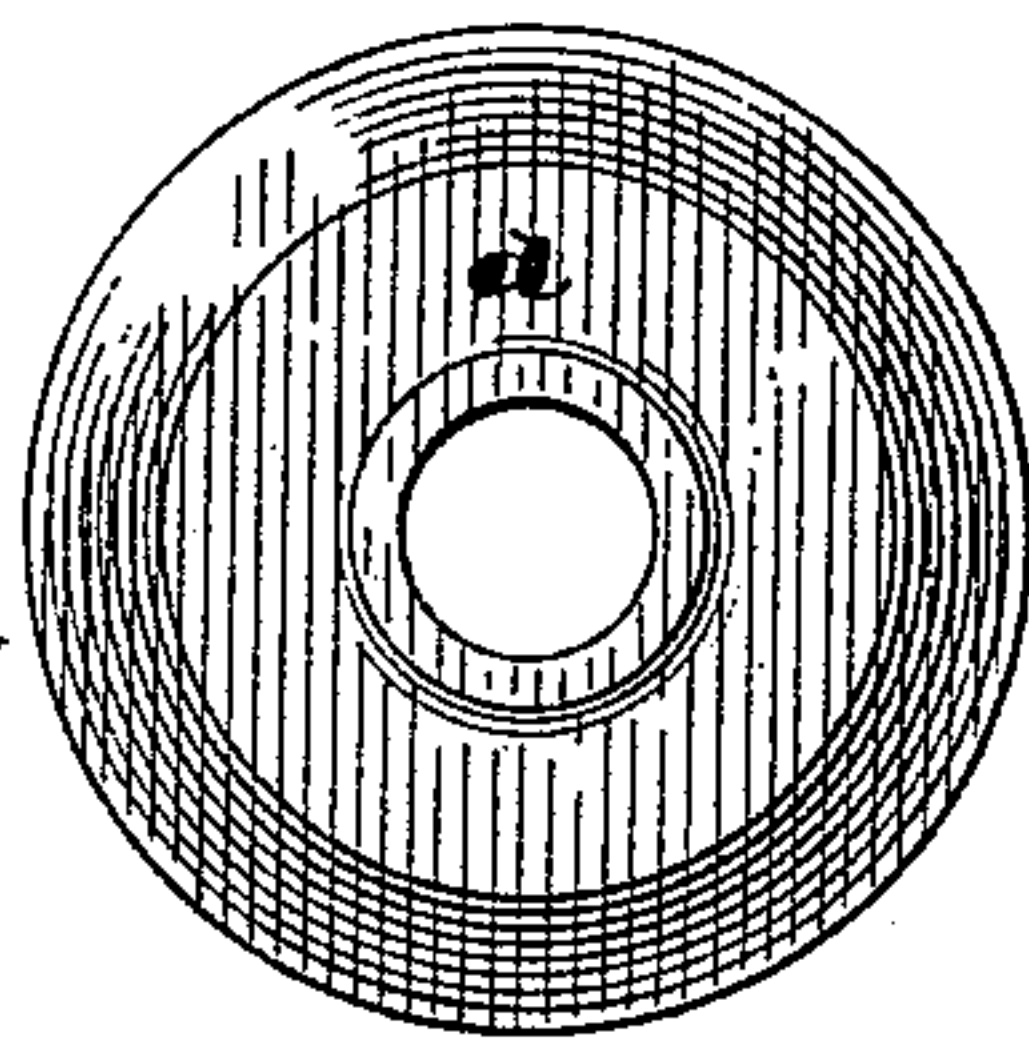


Fig. 9.

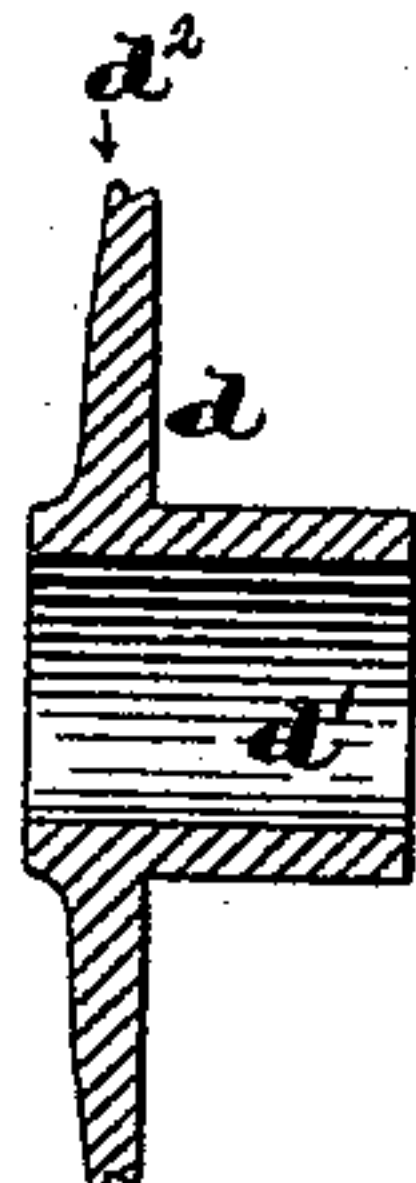


Fig. 11.

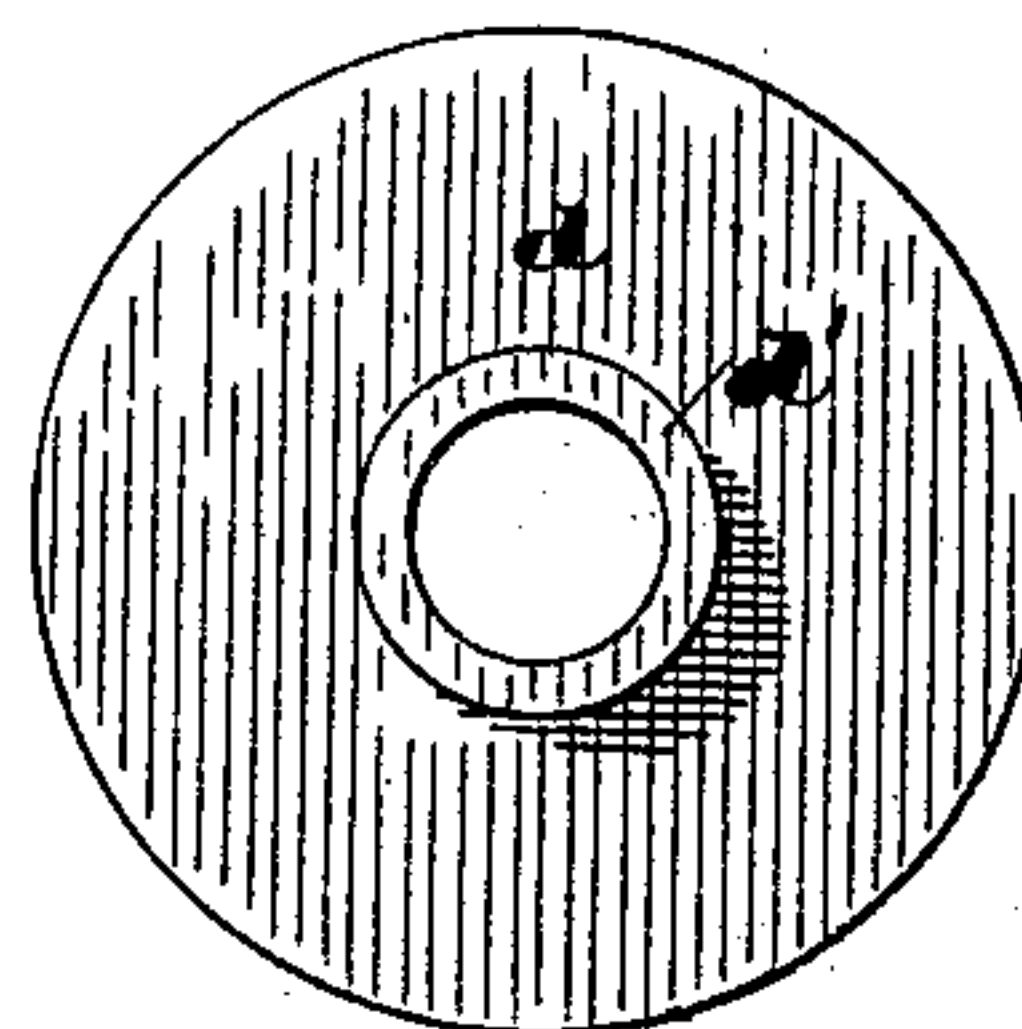


Fig. 10.

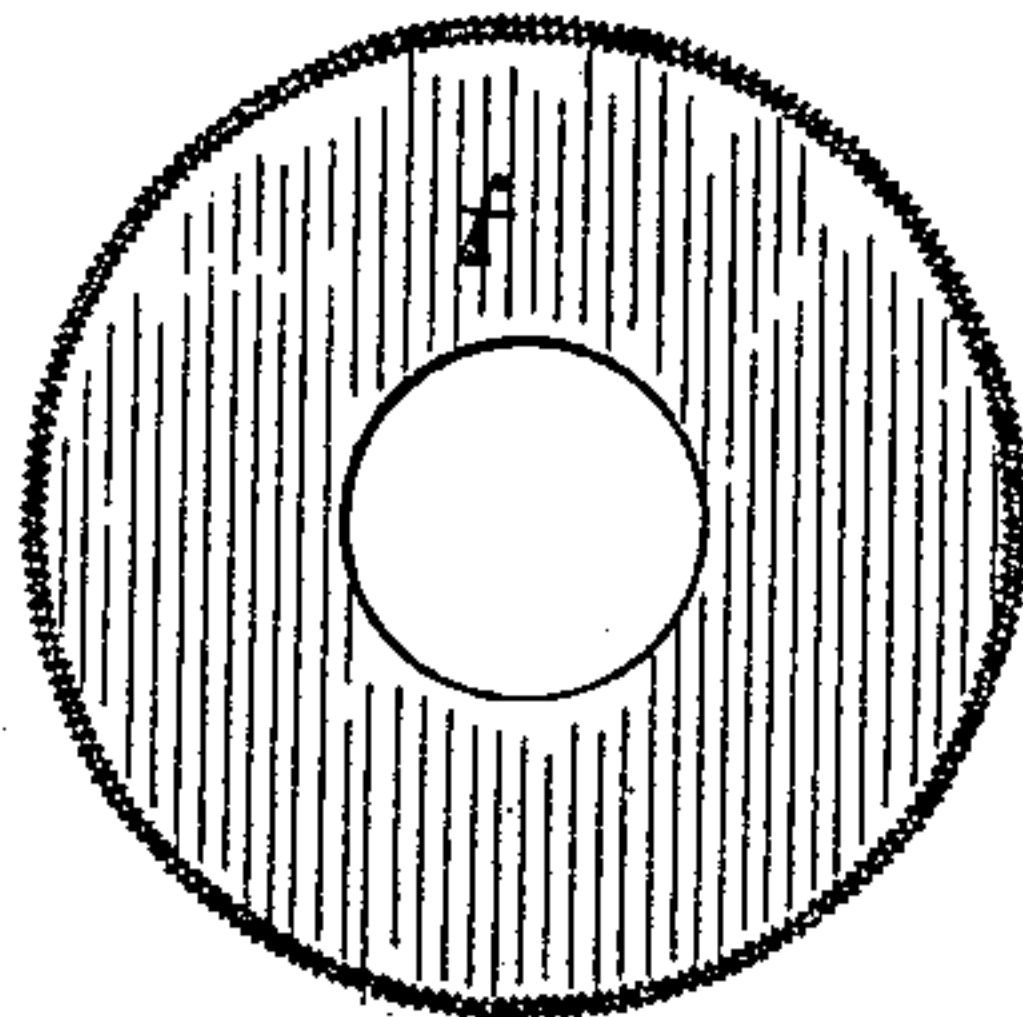


Fig. 6.

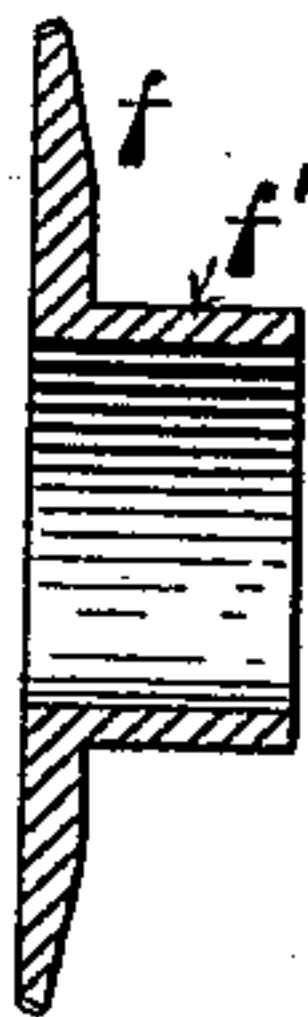


Fig. 8.

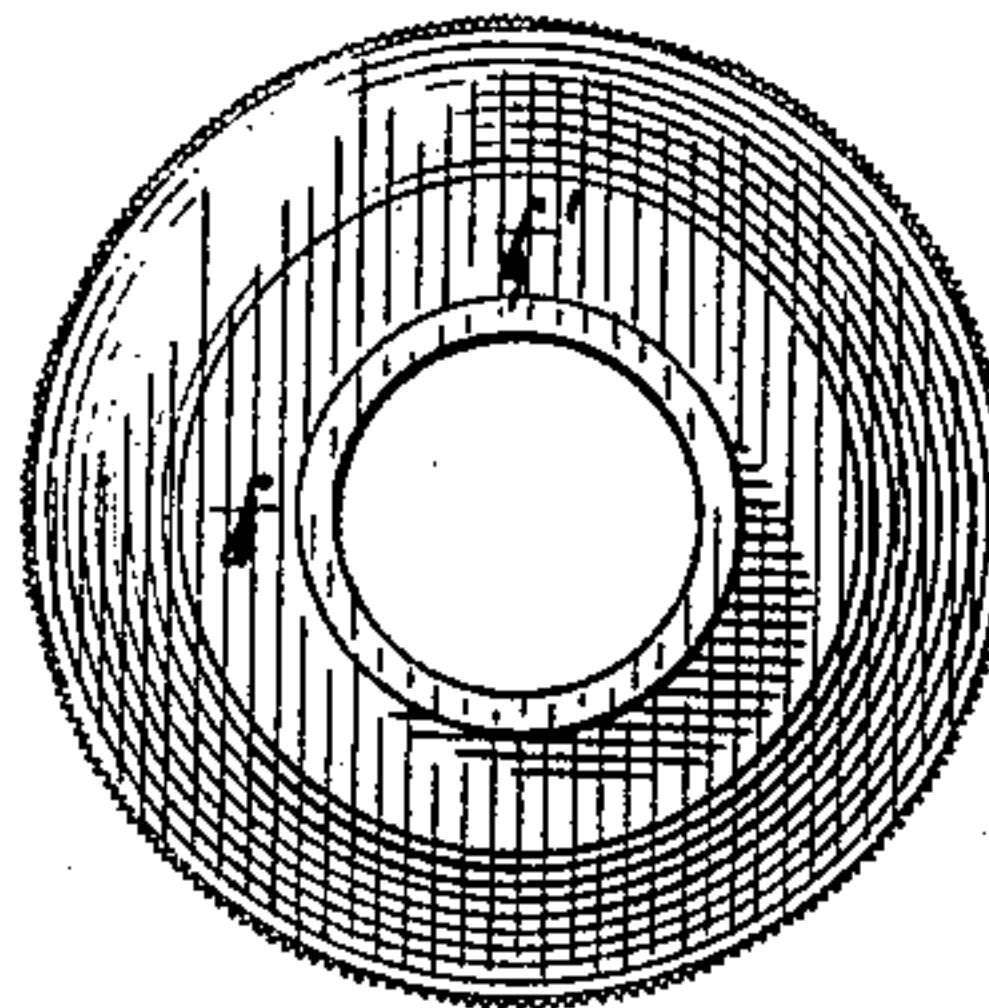


Fig. 7.

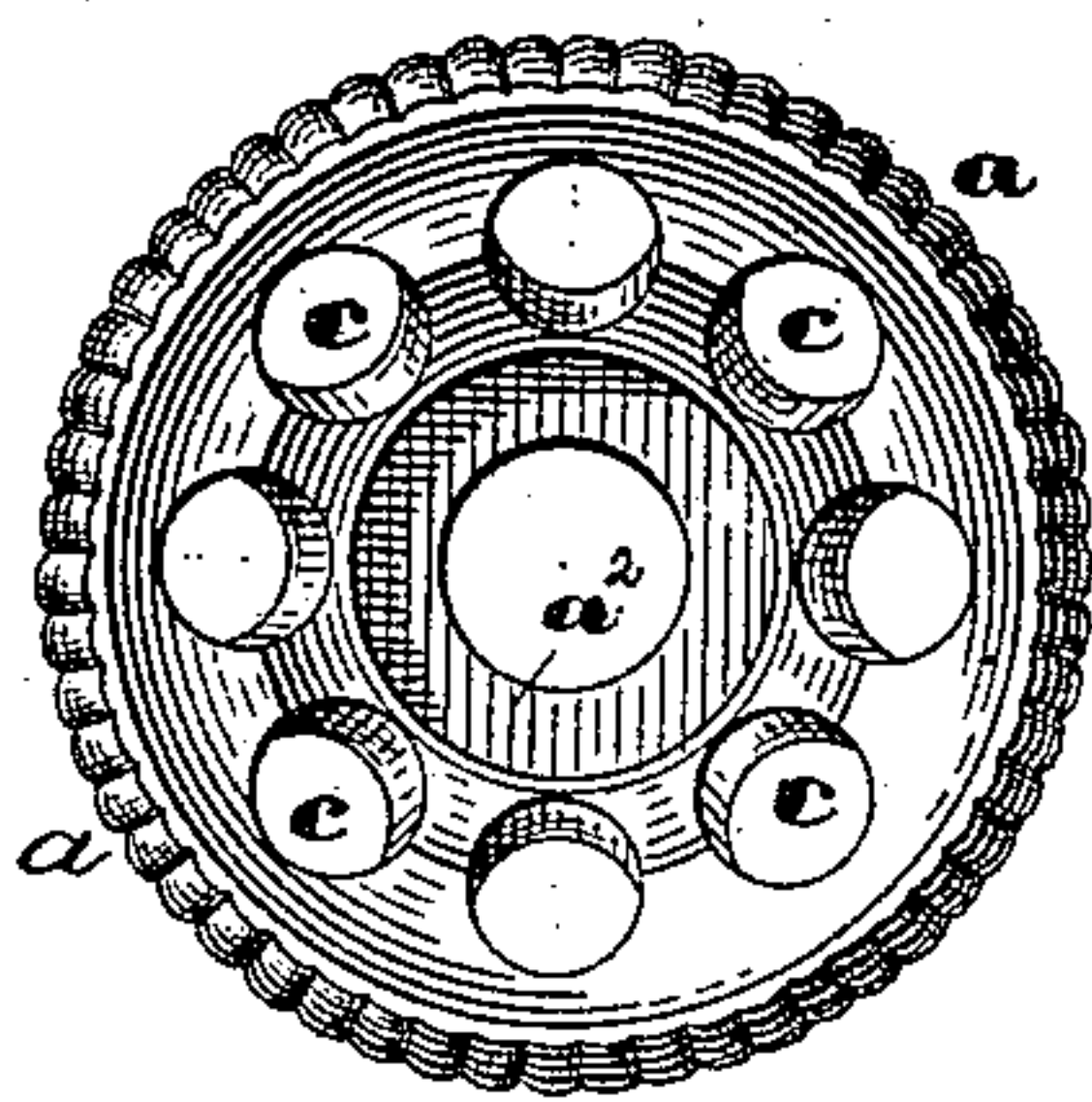


Fig. 3.

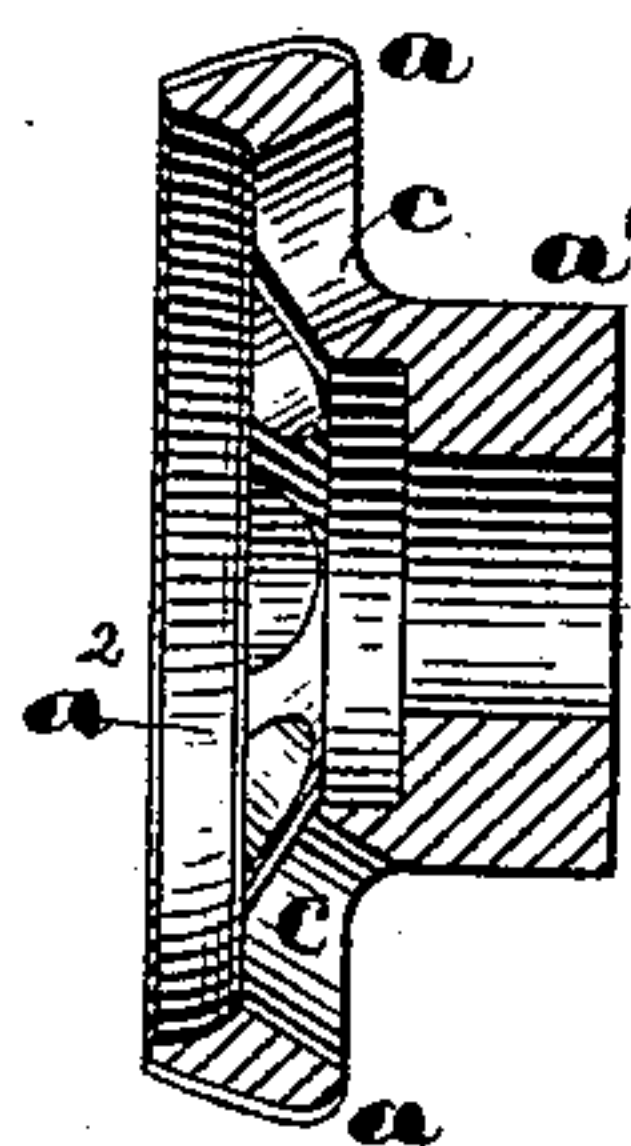


Fig. 5.

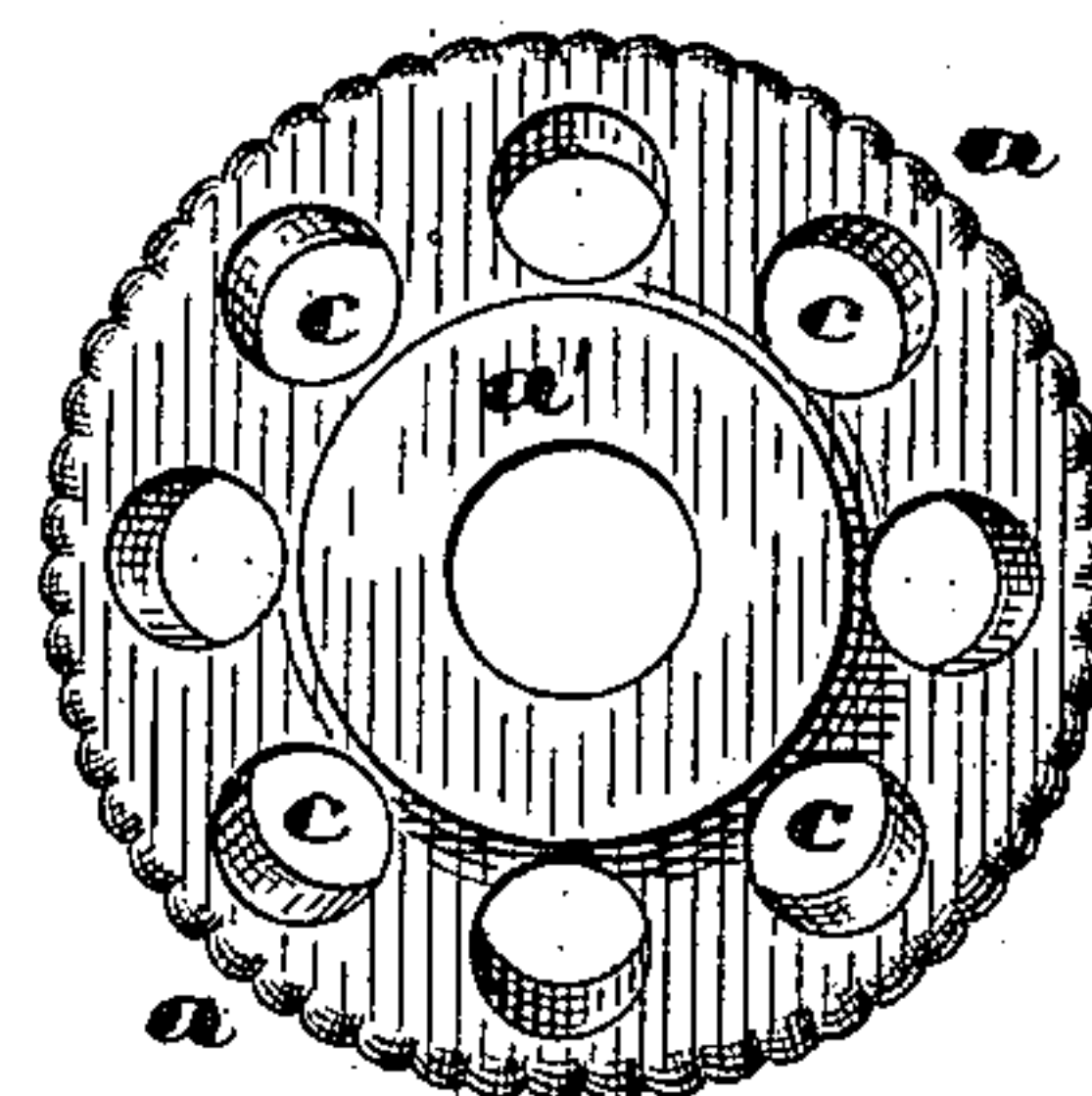


Fig. 4.

Witnesses:

Walter E. Lombard
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UNITED STATES PATENT OFFICE.

JAMES H. BUSELL, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE J. H. BUSELL MANUFACTURING COMPANY, OF NASHUA, NEW HAMPSHIRE.

BEADING AND BURNISHING TOOL.

SPECIFICATION forming part of Letters Patent No. 451,207, dated April 28, 1891.

Application filed July 23, 1890. Serial No. 359,626. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. BUSELL, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Heel-Seat Beading and Burnishing Tools, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to heel-seat beading and burnishing tools; and it consists in certain novel features of construction, arrangement, and combination of parts, which will be readily understood by reference to the description of the drawings and to the claims hereinafter given, and in which my invention is clearly pointed out.

Figure 1 of the drawings is a side elevation of my improved tool. Fig. 2 is a sectional elevation of the same. Figs. 3, 4, and 5 are respectively an elevation of the inner end, an elevation of the outer end, and a sectional elevation of the heel-seat burnishing portion of the tool. Figs. 6, 7, and 8 are similar views of the beading portion of the tool; and Figs. 9, 10, and 11 are similar views of the rand-guiding portion of the tool.

In the drawings, *a* is the heel-seat burnishing portion of the tool, having its periphery beaded and provided with the hub *a'*, which is fitted to the reduced end of the shaft *A* and bears against the shoulder *b* thereon, as shown in Figs. 1 and 2. This burnishing-disk *a* has its inner face chambered at *a²* and its web perforated with a series of holes *c c* to facilitate the heating of the beading-disk by means of the ordinary gas-jet without heating the disk *a* to too high a temperature. The shaft *A* also has fitted to its reduced end portion the rand-guiding disk *d*, which is provided with the sleeve-like hub *d'* and the peripheral lip *d²*, which, when the tool is in operation upon a heel, enters the rand or angular space between the upper and the heel-seat. The inner end of the hub *d'* of the rand-disk *d* bears against the hub of the disk *a* within the recess *a²*, and said disks *a* and *d* are clamped together and to the shaft *A* by the clamping-screw *e*, the head of which

bears upon the outer hub of the disk *d*, while its shank is screwed into the end of the shaft *A*, the reduced portion of which is made slightly shorter than the aggregate lengths of the hubs *a'* and *d'*, as shown.

The beading-disk *f* is provided with the sleeve-like hub *f'*, bored out to fit the periphery of the hub *d'* of the disk *d*, and of such a length as to be freely revoluble thereon when the disks *a* and *d* are clamped firmly together. The disks *a* and *d* are also so constructed that they are at such a distance apart at their peripheries that when clamped together on the shaft *A* their peripheries or outer portions shall not bind the outer edge of the disk *f*, so that when the shaft *A* and the disks *a* and *d* are revolving at a high rate of speed and a shoe-heel is presented to the action of the tool the beading-disk *f* will move about its axis only so fast as the heel is rotated to present different parts of the heel-edge to their action. The periphery of the disk *f* is milled or otherwise has formed thereon a series of fine teeth or serrations, as shown in Figs. 6 and 7.

The shaft *A* may be revolved continuously in one direction at a high rate of speed; or it may be oscillated about its axis, as may be desired.

I claim—

1. In a heel beading and burnishing tool, the combination of the disk *a*, having its periphery curved transversely to conform to the shape of that portion of the heel-edge just below the heel-seat and having formed thereon a series of ribs extending transversely of its periphery, the disk *d*, provided with the annular lip *d²* and hub *d'*, the shouldered shaft *A*, and the beading-disk *f*, having its periphery serrated and provided with the hub *f'*, said disks *a* and *d* being secured to the shaft *A*, so as to revolve or oscillate therewith, while the disk *f* is free to revolve with or independently of said disks *a* and *d* or remain in a state of rest.

2. In a beading and burnishing tool, the combination of the disks *a* and *d* and the shaft *A*, secured together so as to revolve or

oscillate together, the disk *f*, mounted loosely
on the hub of the disk *d*, so as to revolve in-
dependently thereof, and the openings *c c* in
the web of the disk *a*, substantially as and
5 for the purpose specified.

In testimony whereof I have signed my name
to this specification, in the presence of two sub-

scribing witnesses, on this 22d day of July, A.
D. 1890.

JAMES H. BUSELL.

Witnesses:

N. C. LOMBARD,

WALTER E. LOMBARD.