

(No Model.)

H. C. OBERHOLTZER.
POLISHING MACHINE.

No. 415,121.

Patented Nov. 12, 1889.

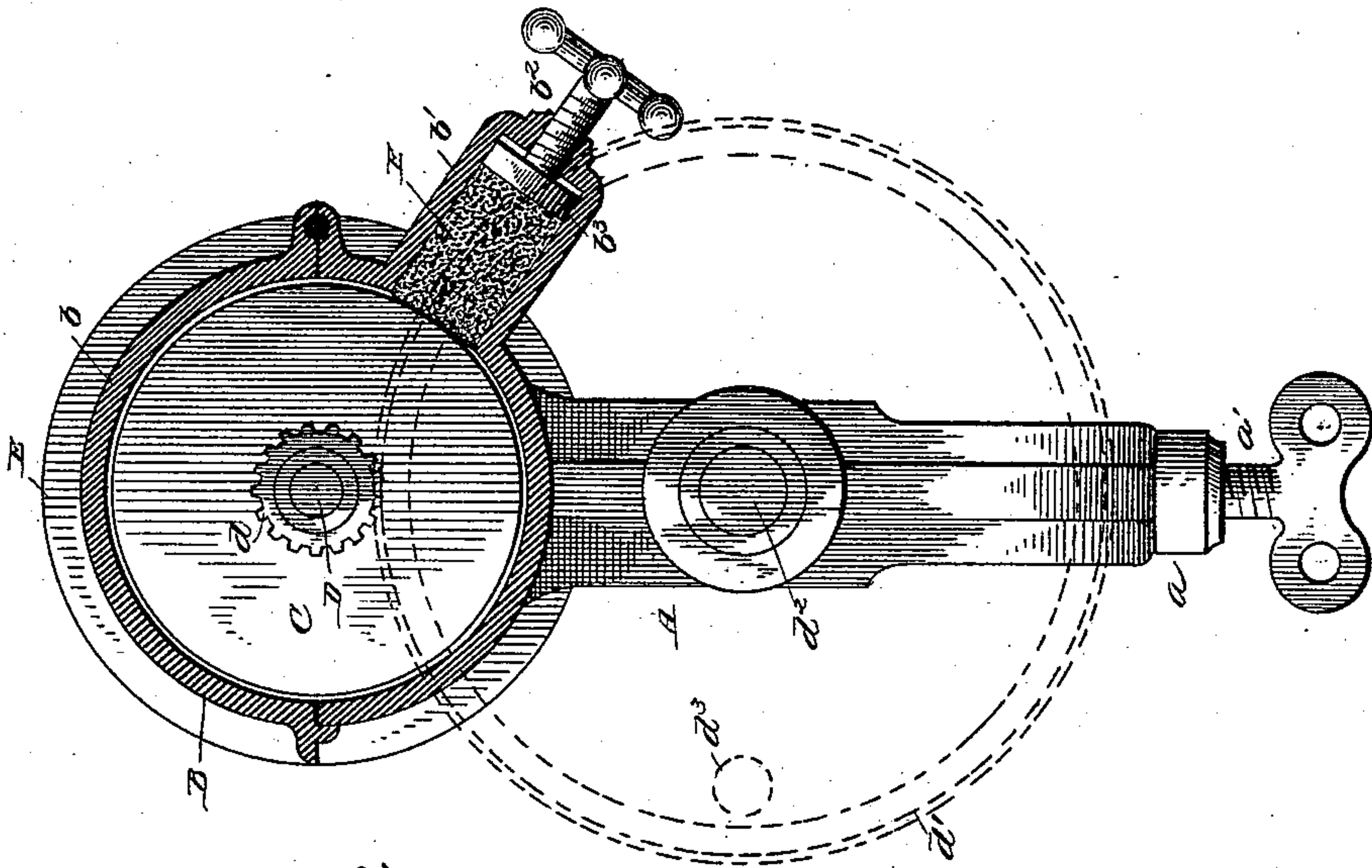


Fig. 2.

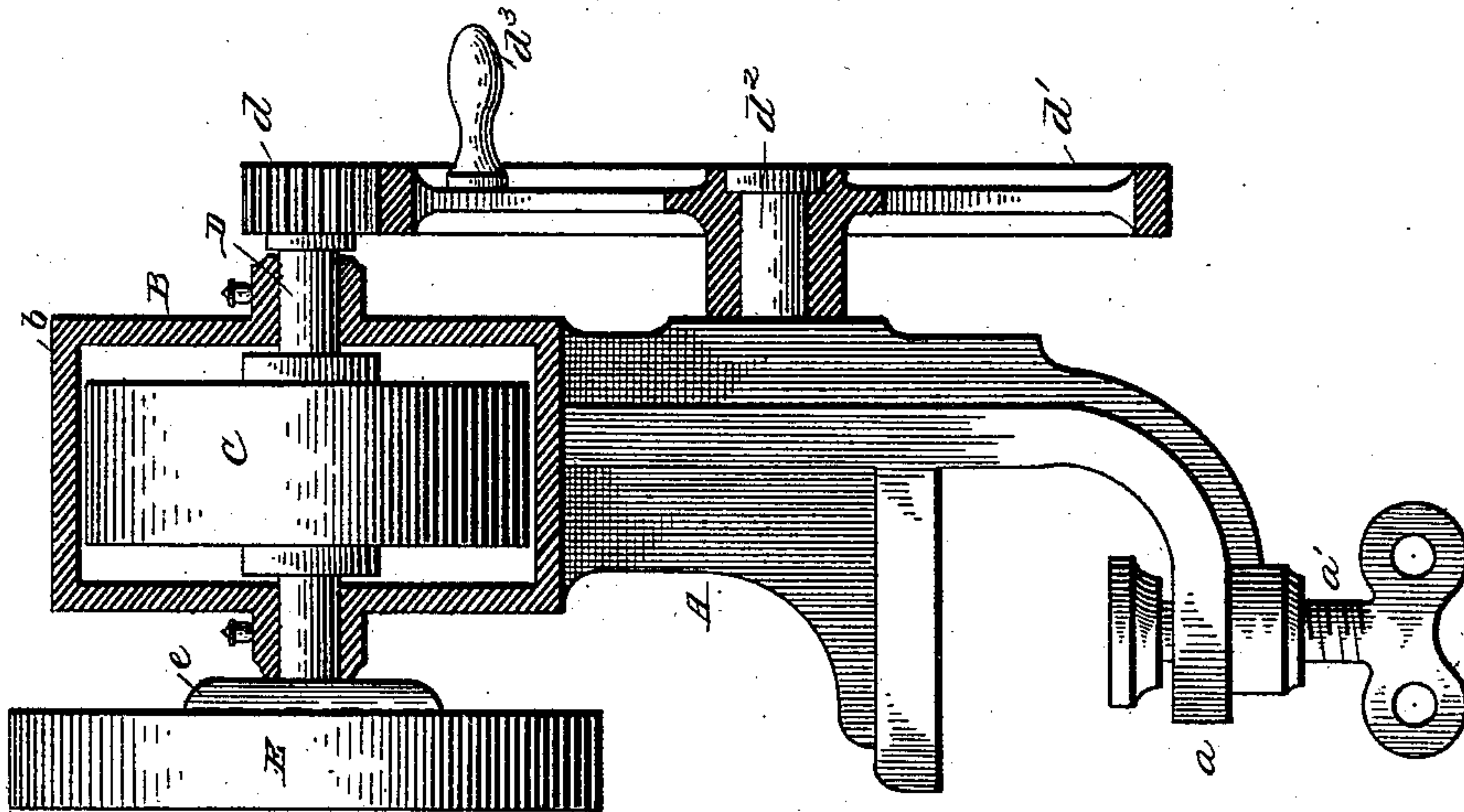


Fig. 1.

WITNESSES

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UNITED STATES PATENT OFFICE.

HOWARD C. OBERHOLTZER, OF WADSWORTH, OHIO.

POLISHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 415,121, dated November 12, 1889.

Application filed January 21, 1889. Serial No. 297,037. (No model.)

To all whom it may concern:

Be it known that I, HOWARD C. OBERHOLTZER, a citizen of the United States of America, residing at Wadsworth, in the
5 county of Medina and State of Ohio, have invented certain new and useful Improvements in Polishing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention pertains to certain new and useful improvements in polishers and sharpeners for knives, shears, &c.

The invention comprises the details of construction, combination, and arrangement of
15 parts, substantially as hereinafter fully set forth, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is an end elevation of my invention, with parts
20 in section. Fig. 2 is a front view.

Referring to the drawings, A designates a frame having a lower jaw *a* and thumb-screw *a'*, by which the same is firmly held in place on a stand or table.

25 B is a circular box or casing formed with the upper part of frame A, and provided with an upper pivoted or hinged section or member *b*, and from this box or casing projects a short extension or chamber *b'*, having
30 a screw *b²* working therein, said screw being secured to a follower *b³* at its inner end.

C is the polishing-wheel, located within the box or casing B, and rigidly secured on a shaft D, projected through said box. Upon one
35 end of this shaft D is a pinion *d*, which gears or intermeshes with a gear-wheel *d'*, rotatively secured on a stud *d²*, fast with frame A. This wheel is provided with a handle *d³*, which is grasped by the operator.

40 A grinding-wheel E is removably secured upon the rear end of shaft D, the inward movement of said wheel being limited by a flanged collar *e*, as shown.

Suitable polishing material or composition

F is placed within the chamber *b'*, and can 45 be held in contact with the outer periphery of wheel C by means of a screw *b²* and follower *b³*.

In practice the box or casing B is closed and the polishing material or composition is 50 forced against the wheel C, which is caused to rapidly revolve for a short time by turning wheel *d'*. After this the upper section of box or casing B is opened, and by bringing the knives or other cutlery to be polished into 55 contact with wheel C the same will be readily and quickly polished.

To grind or sharpen any piece of cutlery, the same is placed in contact with the grinding-wheel E, which is preferably removed 60 during the polishing operation.

It is obvious that by means of my invention knives, shears, and the like can be readily and easily polished or sharpened, and that the invention comprises but few parts, and 65 hence is not liable to readily get out of order.

I claim as my invention—

The improvement in polishing or grinding machines, consisting of the box or casing having suitable means to secure it in place and 70 formed of semicircular sections, the upper section being hinged or pivoted to the lower section and the lower section having the extension-chamber containing a screw-actuated follower, a shaft journaled in said casing and 75 geared to a driving-wheel, and the grinding and polishing wheels secured upon said shaft, the grinding-wheel being arranged outside of the said box or casing and the polishing-wheel being arranged within said casing or 80 box, substantially as set forth.

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

HOWARD C. OBERHOLTZER.

Witnesses:

F. W. KREMER,
PETER WILKINS.