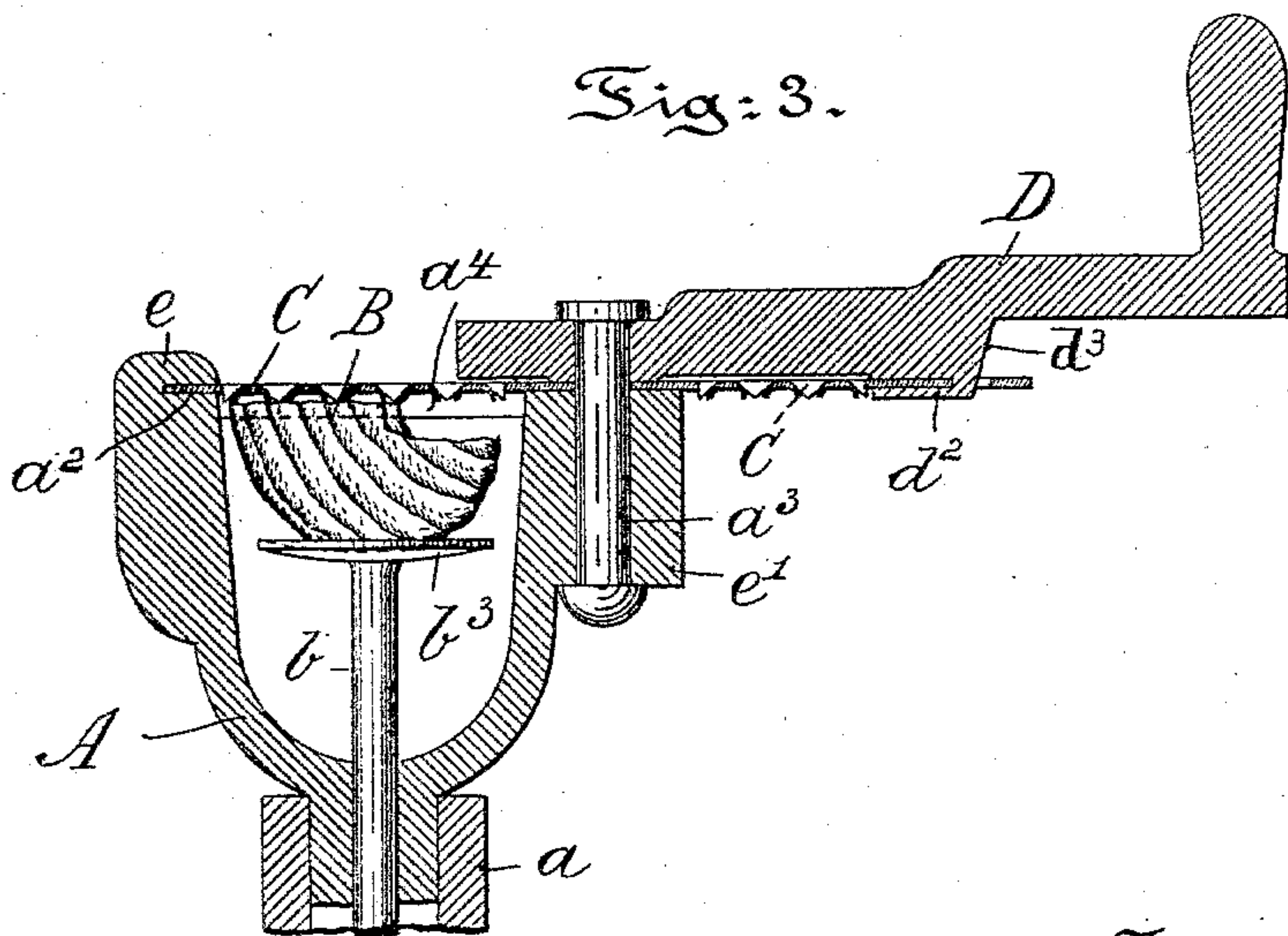
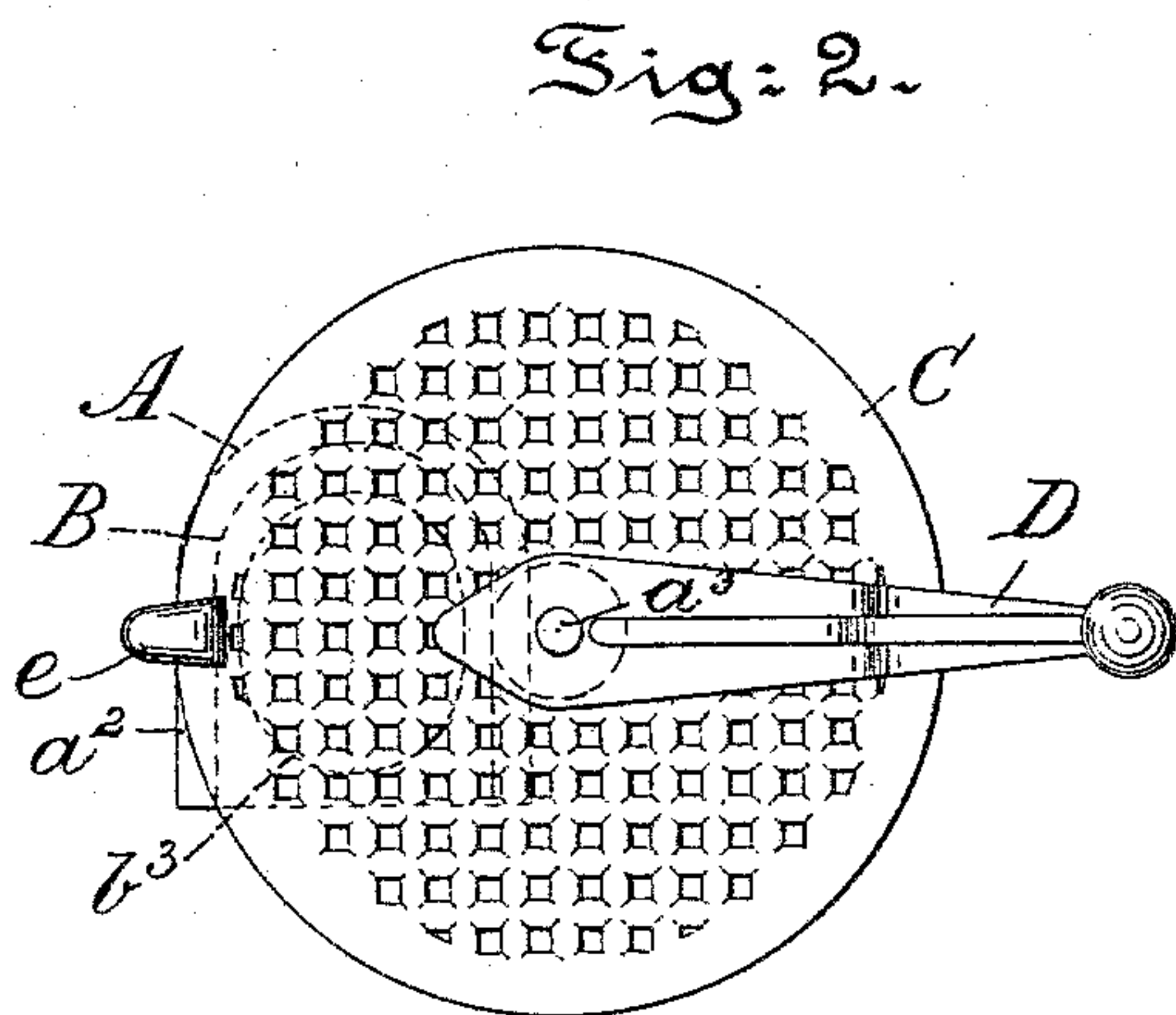
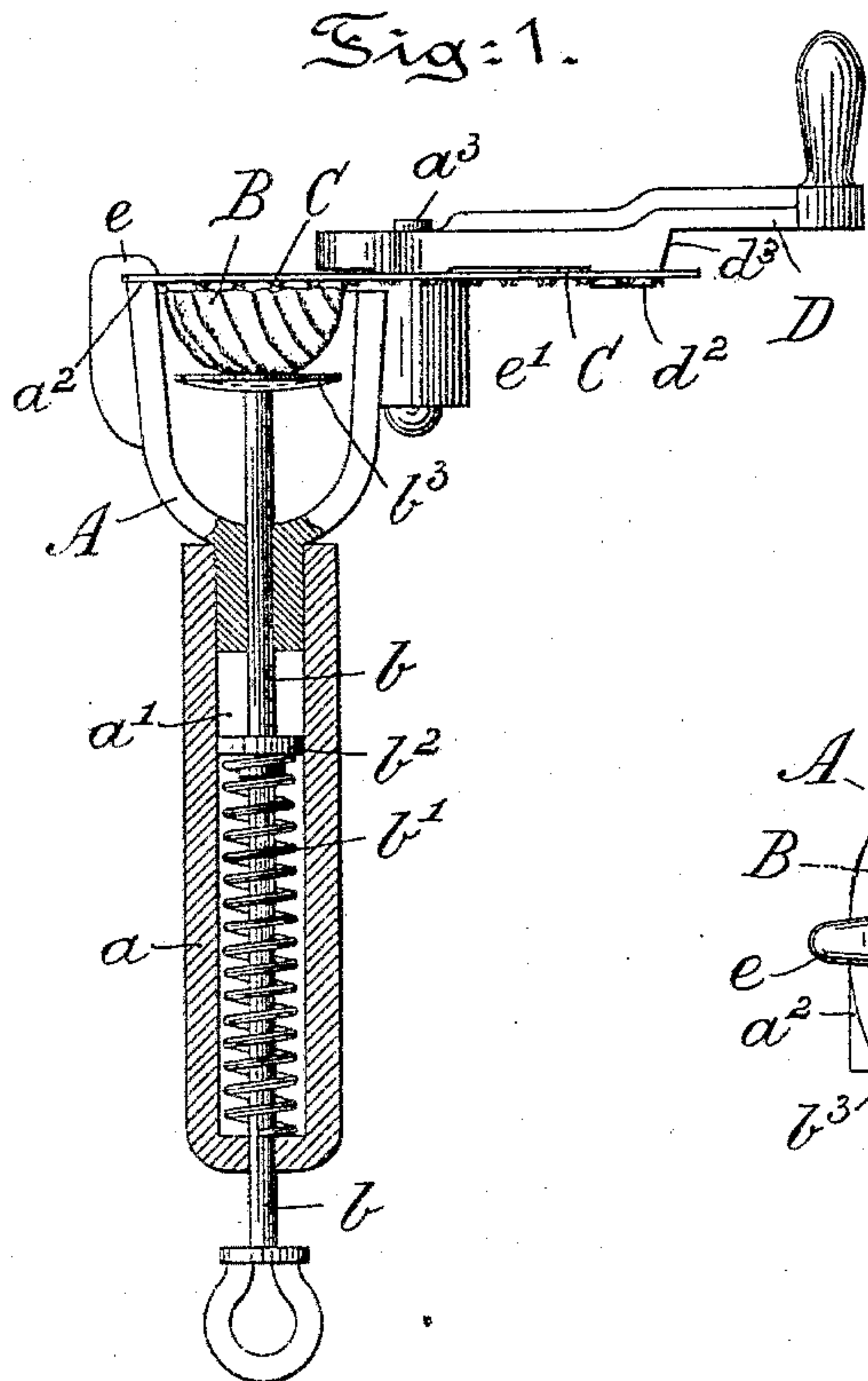


(No Model.)

A. A. FREEMAN.
NUTMEG GRATER.

No. 565,070.

Patented Aug. 4, 1896.



Witnesses:
Thomas M. Smith.
Richard C. Maxwell.

Inventor:
Albert A. Freeman,
By J. Walter Douglass
Attorney.

UNITED STATES PATENT OFFICE.

ALBERT A. FREEMAN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
THE SPECIALTY NOVELTY COMPANY, OF SAME PLACE.

NUTMEG-GRATER.

SPECIFICATION forming part of Letters Patent No. 565,070, dated August 4, 1896.

Application filed September 18, 1895. Serial No. 562,823. (No model.)

To all whom it may concern:

Be it known that I, ALBERT A. FREEMAN, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Nutmeg-Graters, of which the following is a specification.

My invention has relation to a nutmeg-grater of that class wherein the nutmeg is confined in a receptacle by means of a spring-arm adapted to press the same against a revolving grater-disk; and it relates particularly to the construction and arrangement of such a grater.

My invention consists of a nutmeg or similar grater constructed and arranged in the manner hereinafter described and claimed.

The nature and scope of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a side elevation, partly sectioned, of a nutmeg-grater embodying features of my invention. Fig. 2 is an end view of the same, looking toward the grater-disk, showing the flange or guide secured to the cup to confine the disk and also showing the handle secured to the disk and to the receptacle; and Fig. 3 is a vertical central section of the receptacle and disk, showing in detail the flange to confine the disk to the receptacle and the means for securing the handle to said disk and receptacle.

Referring to the drawings, A represents a receptacle or cup in which the nutmeg B or other substance to be ground or powdered is adapted to be mounted. This receptacle or cup A is secured to one end of a chambered handle *a*, which is hollow, as at *a'*, and in which a stem *b* is mounted and around which stem is coiled a spring *b'*, one end of which bears against the end of the handle *a*, while the other rests against a projection or collar *b²* on the stem or arm *b*, as clearly illustrated in Fig. 1 of the drawings. The end of the arm or stem *b* nearest the grater-disk C carries a presser-plate *b³*, which is slightly concaved to fit the face of a nutmeg B. This

presser-plate *b³* traverses the receptacle or cup A in a direction at right angles to the plane of the disk C, the coiled spring *b'* normally pressing the plate *b³* toward said disk. On one edge of the receptacle or cup A is formed a lug or flange *e*, which projects over the disk C and serves to confine the disk to the edge *a²* of the receptacle or cup, as indicated more clearly in Figs. 1 and 3. The cup A also carries a bearing *e'* for a pin *a³*, which constitutes a pivot for the handle D. The grater-disk C and one end of the handle D are secured to the pin *a³* in any preferred manner. The handle D is provided intermediately with an offset or shoulder *d³*, adapted to freely pass the flange *e* on the cup A, and has also a cut or lug *d²*, adapted to enter the disk C at or near its periphery, or by a saw-cut the disk is secured to the handle, as illustrated in Fig. 3.

By the foregoing explained construction the two cuts or overhanging lugs on the cup A and handle D coöperate to support the sheet-metal grater-disk C in operation and a minimum quantity of cast material is employed.

In operation the stem or arm *b* is drawn outward against the tension of the spring *b'* until the presser-plate *b³* is withdrawn from the grater-disk C a sufficient distance to permit the nutmeg B or other substance to be ground to be inserted between the plate *b³* and the disk C. The spring *b'* then constitutes a direct and constant feeding pressure for the nutmeg against the disk C, and the latter is rotated by the handle D firmly engaging the periphery of said disk, the periphery of which where it grates against the nutmeg B is confined to the edge of the cup A by means of the flange *e*. The grated substance escapes from the cup A through a slit or slot *a⁴* between the cup A and the grater-disk C, as clearly illustrated in Fig. 3 of the drawings.

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of a revoluble grater-disk, a cup to receive the substance to be grated formed with a flange projecting over the pe-

riphery of said disk to constitute a guide therefor, a spring-impelled stem carrying a collar b^3 , a chambered handle in which said stem, spring and cup are mounted, a pivot-
5 pin for said disk and a handle therefor pivoted upon said pin and provided intermediately with an offset or shoulder adapted to freely pass the flange on the cup and a cut or lug, whereby the grater-disk is secured to

said handle, substantially as and for the purposes described.

In testimony whereof I have hereunto set my signature in the presence of two subscribing witnesses.

ALBERT A. FREEMAN.

Witnesses:

J. WALTER DOUGLASS,
THOMAS M. SMITH.