

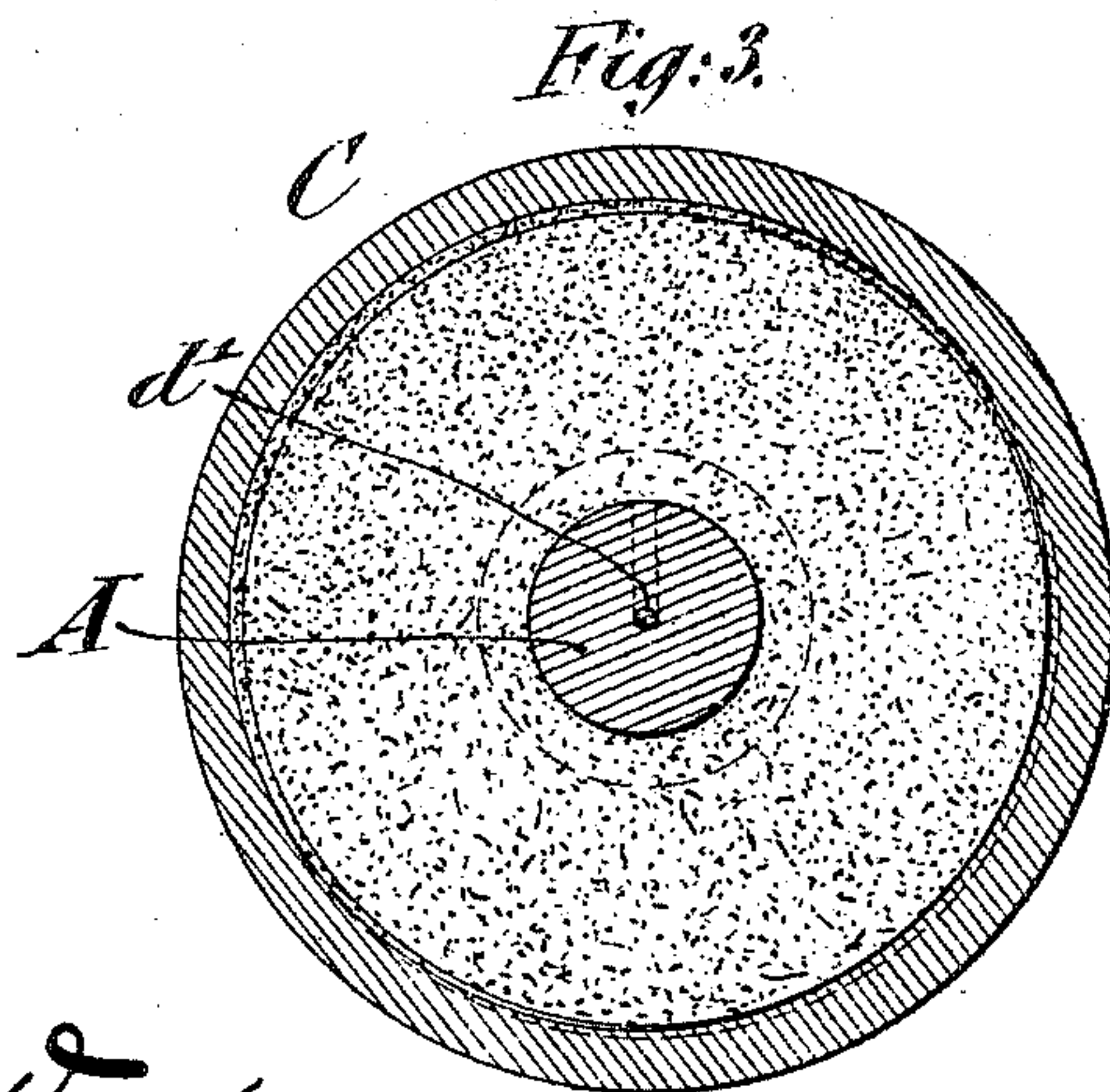
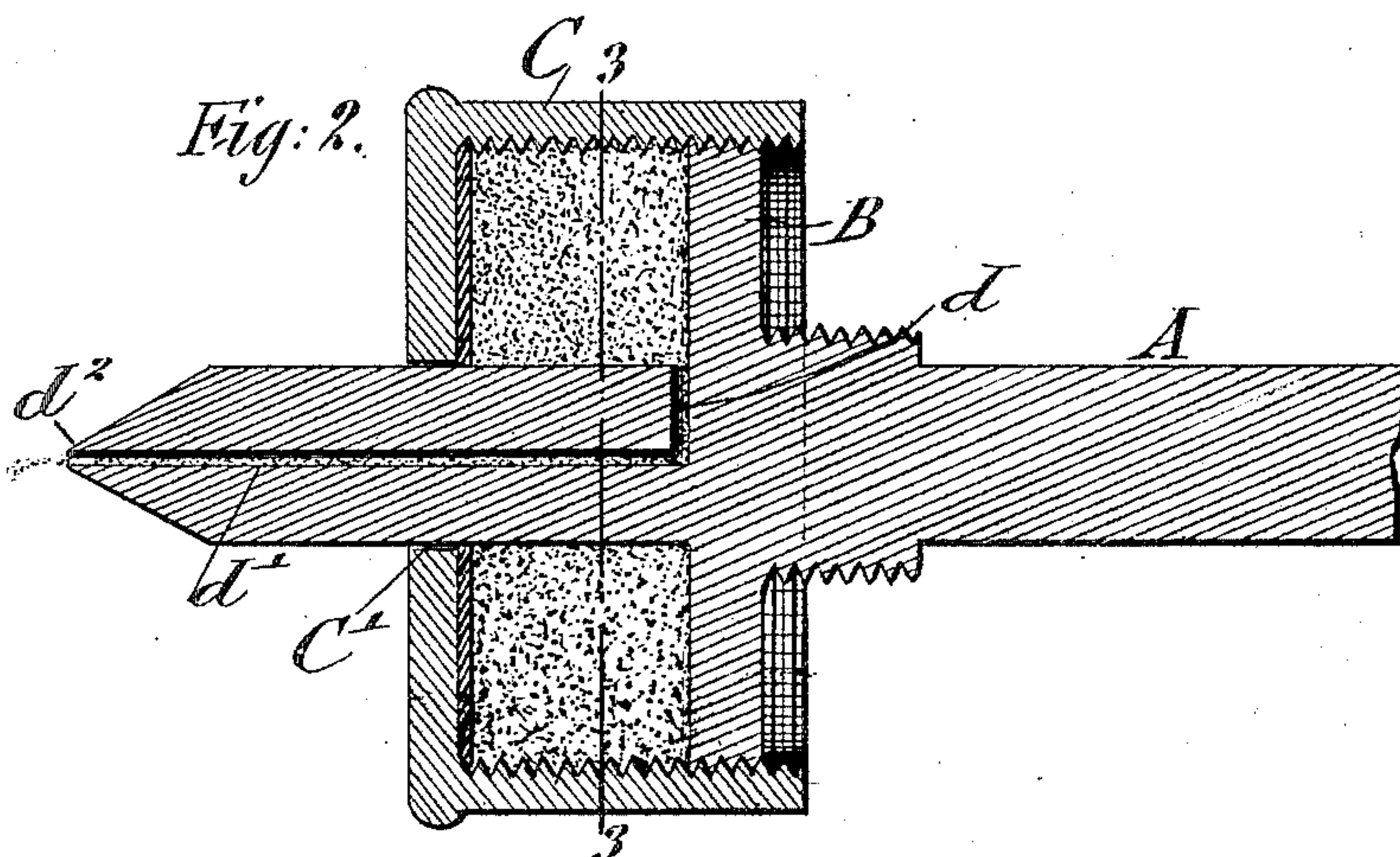
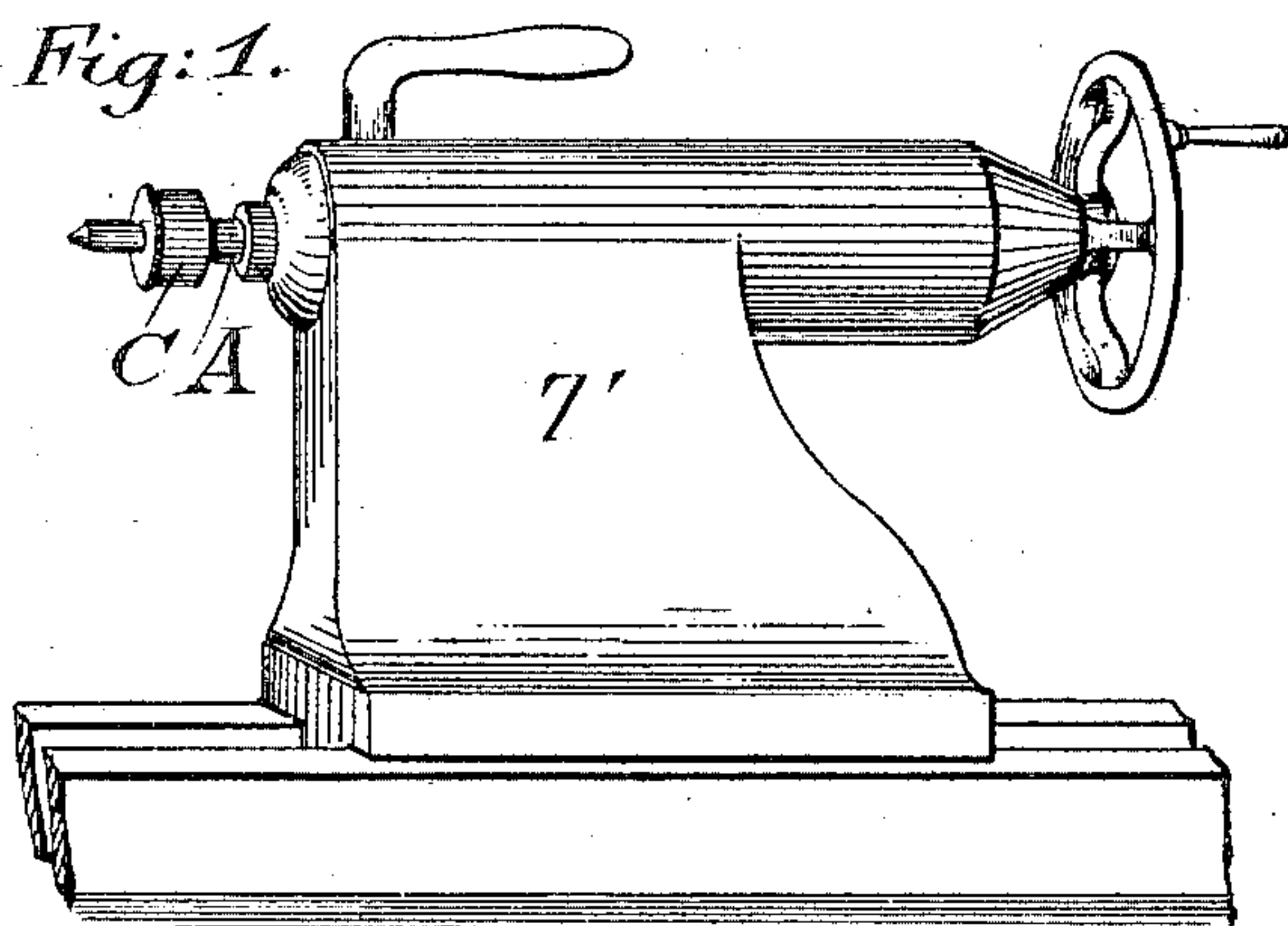
No. 667,957.

Patented Feb. 12, 1901.

P. SCHWICKART.
LUBRICATOR FOR LATHE CENTERS.

(Application filed Sept. 17, 1900.)

(No Model.)



WITNESSES:

M. H. Wurfel
Geo. L. Wheeler

INVENTOR

Philip Schwickart
BY *James H. Regnier*
ATTORNEYS

UNITED STATES PATENT OFFICE.

PHILIP SCHWICKART, OF NEW YORK, N. Y.

LUBRICATOR FOR LATHE-CENTERS.

SPECIFICATION forming part of Letters Patent No. 667,957, dated February 12, 1901.

Application filed September 17, 1900. Serial No. 30,276. (No model.)

To all whom it may concern:

Be it known that I, PHILIP SCHWICKART, a citizen of the United States, residing in New York, borough of Brooklyn, in the State of New York, have invented certain new and useful Improvements in Lubricators for Lathe-Centers, of which the following is a specification.

This invention relates to an improved center for the tail-stock of lathes, so that the point of contact between the center and the rotating work is lubricated, and thereby the friction between the parts reduced and the working of the lathe facilitated.

The invention consists, first, of a lathe-center provided with a lubricator-box on the same, said box communicating with the point of the center by means of a channel and central bore, so that the lubricant is fed to the point of the lathe-center.

The invention consists, secondly, of a lathe-center provided with a threaded disk, a cylindrical box screwing upon said disk, lubricating material in said box, a longitudinal bore in the center, and a lateral channel connecting said bore with the interior of the box, as will be fully described hereinafter and finally claimed.

In the accompanying drawings, Figure 1 represents a perspective view of a tail-stock provided with my improved lathe-center. Fig. 2 is a vertical central section of the center drawn on a larger scale and showing the lubricating device in position thereon; and Fig. 3 is a vertical transverse section on line 3 3, Fig. 2.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a lathe-center of that class which is supported in the tail-stock T of the lathe. The center A is provided about midway of its length adjacent to its screw-shank with a disk B, that is provided with an exterior screw-thread for receiving an interiorly-threaded cylindrical box C upon the same, so that the rear end of the box is thereby closed. The box C is filled with tallow or similar semiliquid or viscous lubricating material and is provided with a hole C' for receiving the front end of the center. The interior of the box is connected in front of the disk B with a radial channel d , that communicates with the center bore d' in the center, said bore terminating in the apex d^2 of the center A and delivering the lubri-

cant to the point of contact of the lathe-center with the work to be operated on. From time to time the cylindrical box C is turned so that it is screwed in backward direction upon the disk B, the turning action squeezing out a small quantity of lubricating material and feeding it to the apex of the lathe-center, so as to lubricate the point in contact with the work. The cylindrical box C, containing the lubricant, is turned from time to time, so as to gradually feed the material to the apex of the lathe-center and reduce thereby the friction of the lathe-center with the work. When the lubricating-box is moved entirely over the disk, so that all the lubricant in the same has been forced out, it is removed by turning it in opposite direction until it is clear of the disk, then filled and replaced, in which position it is ready for further lubricating action.

The advantages of my improved lathe-center are that the lubricating material is supplied to the apex of the center, and not only is friction between the center and work reduced, but also the movement of the lathe is rendered easier and steadier, the lubricating-box serving for a considerable length of time before the lubricant is exhausted, as the surface to be supplied is comparatively small and requires but a small quantity of material for keeping it in proper condition.

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

A lathe-center, provided with an exteriorly-threaded disk arranged at a suitable distance back of the apex of the center, an interiorly-threaded cylindrical box, provided with a central hole and screwing onto said disk, and the lathe-center proper projecting through the hole in the box, a central bore in the lathe-center and a lateral channel connecting the bore with the interior of the said box, whereby a suitable lubricant contained within the box is adapted to be fed through the channel and bore to the apex of the lathe-center, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

PHILIP SCHWICKART.

Witnesses:

PAUL GOEPEL,
M. H. WURTZEL.