

(No Model.)

G. W. CUMMINGS.

BURR FOR KNITTING MACHINES AND MEANS FOR SUPPORTING THE SAME.

No. 284,283.

Patented Sept. 4, 1883.

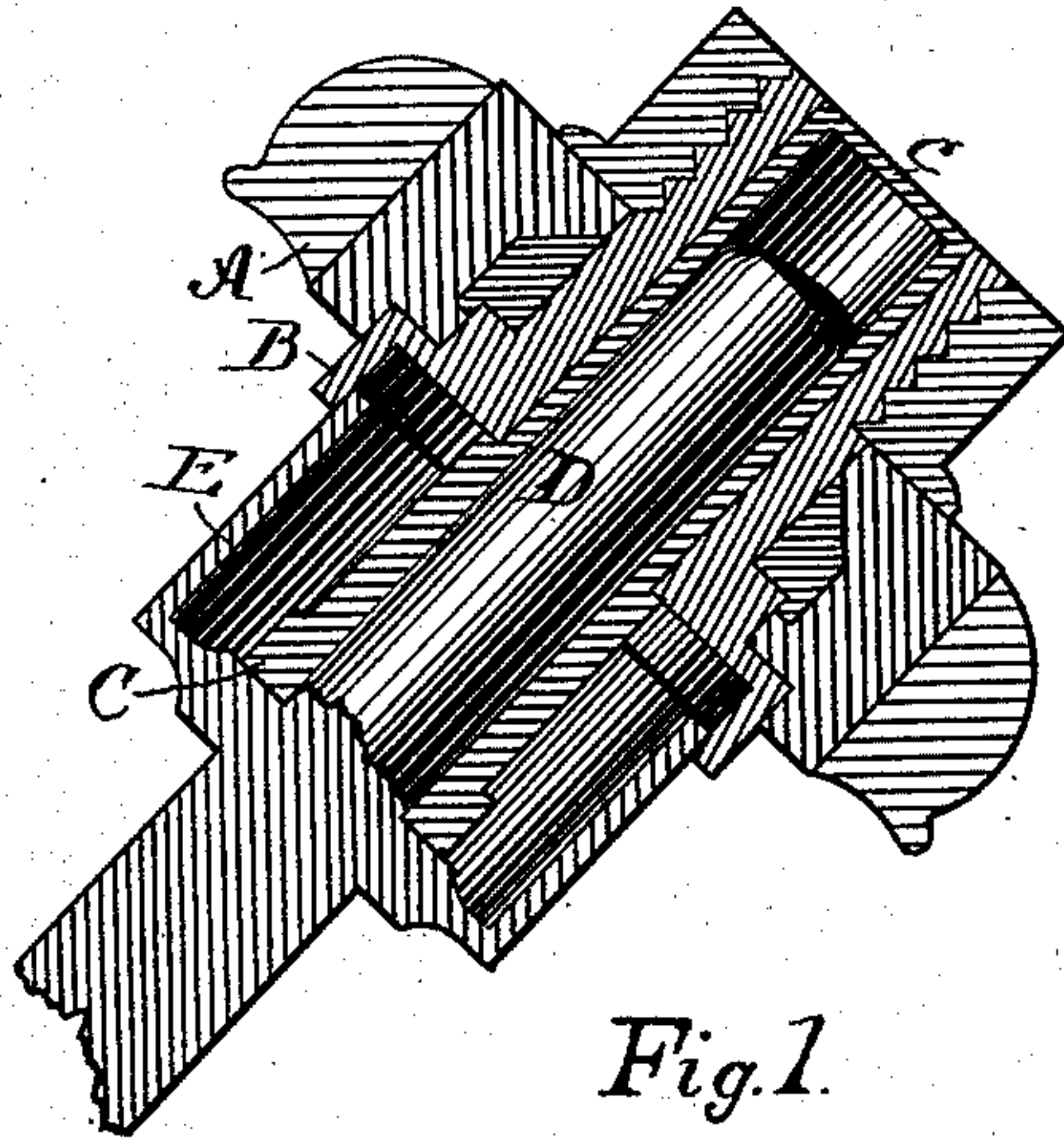


Fig. 1.

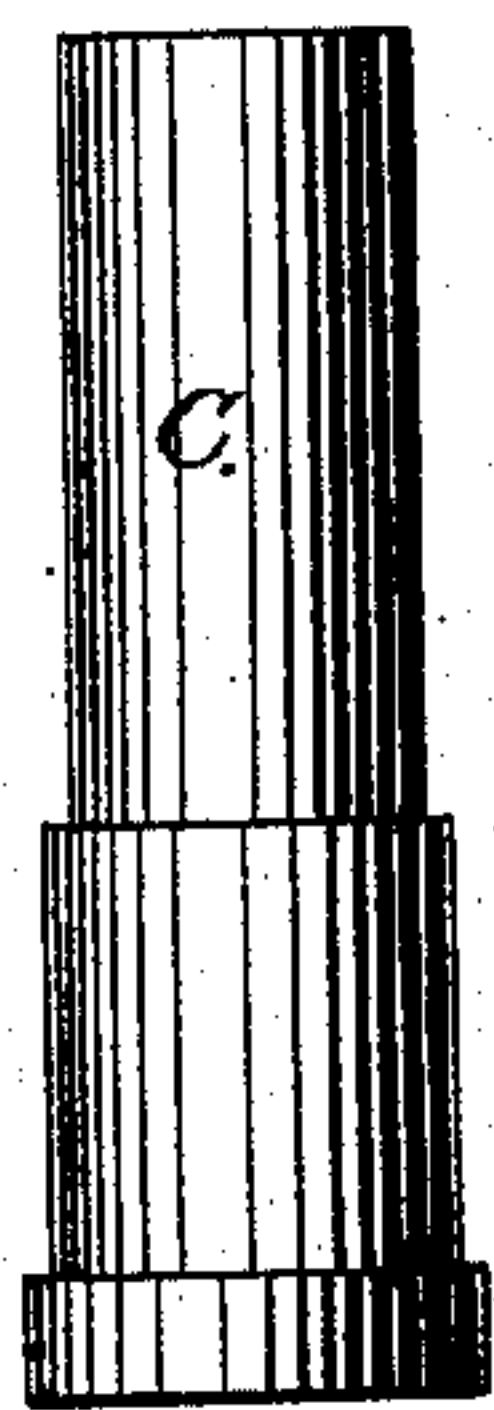


Fig. 2.

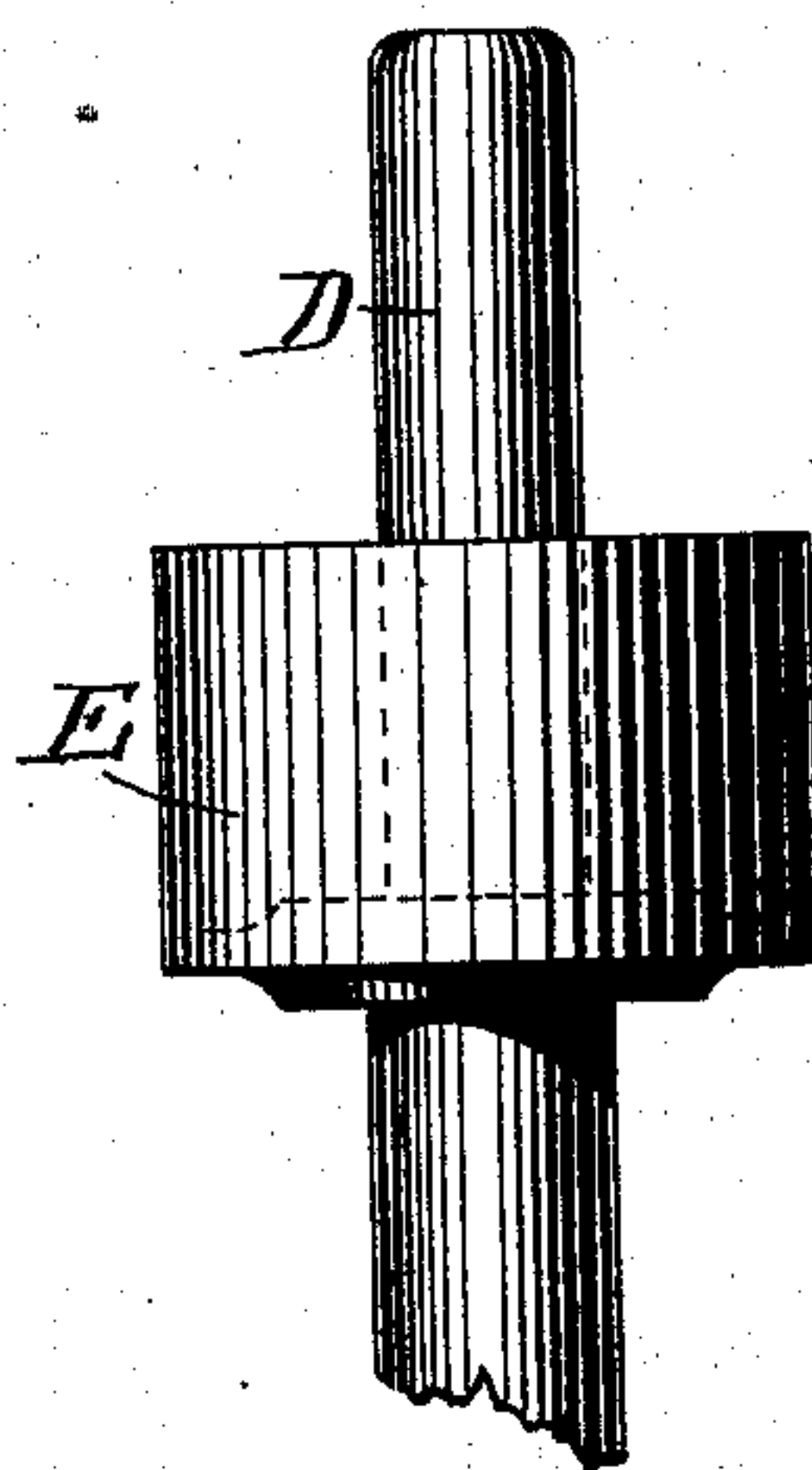


Fig. 3.

Witnesses,

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UNITED STATES PATENT OFFICE.

GEORGE W. CUMMINGS, OF COHOES, NEW YORK.

BURR FOR KNITTING-MACHINES AND MEANS FOR SUPPORTING THE SAME.

SPECIFICATION forming part of Letters Patent No. 284,283, dated September 4, 1883.

Application filed October 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. CUMMINGS, of Cohoes, in the county of Albany and State of New York, have invented certain new and
5 useful Improvements in Burrs for Knitting-Machines and Means for Supporting the Same, of which the following is a specification.

My invention consists in improvements in burrs of knitting-machines and in the spindles
10 for supporting the same; and the objects of my improvements are, first, to provide proper facilities for lubricating said spindles without requiring the stoppage of the machine and the removal of the burr several times each day to
15 effect that purpose; and, second, to protect the goods from becoming soiled by being brought into contact with the lubricant. I attain these objects by means of the construction illustrated in the accompanying drawings, which
20 form part of this specification, and in which—

Figure 1 is a vertical section of a burr and spindle containing my improvements; and Figs. 2 and 3 are respectively side elevations of the sleeve and the spindle and its attached
25 oil-cup.

As represented in the drawings, A designates the knitting-machine burr for which Letters Patent of the United States No. 42,545 were granted to Charles Allardice on the 3d
30 day of May, 1864. On the under side of said burr I form a pendent annular flange, B, for a purpose hereinafter set forth.

C is a removable sleeve fixed in the center of said burr, and provided with a closed top,
35 c. The said sleeve is fixed in the burr A, so as to revolve with and form an elongated bearing for the said burr. The closed top c pre-

vents the lubricant from oozing out of the top of the burr, where, by coming in contact with the goods made on the machine, it is liable to
40 effect much damage to said goods.

D is the stationary spindle on which the burr A revolves. The said spindle is provided with an annular cup, E, for containing the lubricant for the burr. The annular flange B of
45 the burr overlaps the upper edge of the cup E, thereby producing greater stability in the burr and preventing the admission of dirt and dust into the cup to pollute its contents. The lower end of the sleeve C extends downward, so as to
50 bear upon the bottom of the cup E, and is immersed in the oil in the said cup, which oil is carried, by the rotations of the burr, upward on the spindle D, and furnishes the required lubrication for the revolving burr.
55

When preferred, the removable sleeve C may be omitted from the construction, and a permanent pendent collar formed on the body of the burr may be substituted for it; but preferably I construct the device with the re-
60 movable sleeve, as hereinbefore shown and described.

I claim as my improvement—

The combination with the burr A, provided with a pendent flange, B, as described, and
65 the sleeve C, provided with a closed top, c, of the spindle D, provided with an annular oil-cup, E, all being constructed and arranged to operate as herein specified.

GEORGE W. CUMMINGS.

Witnesses:

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