

No. 723,172.

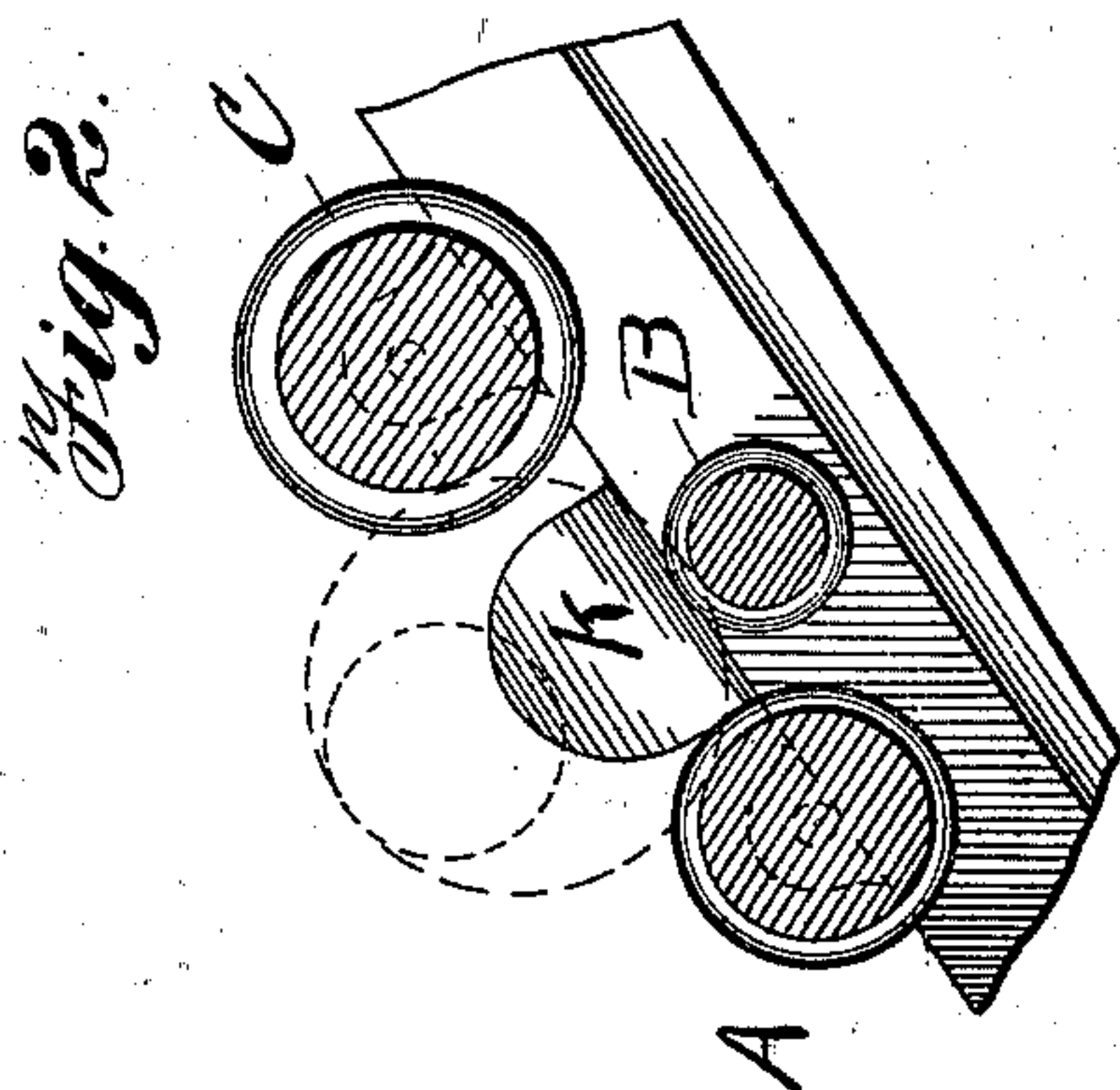
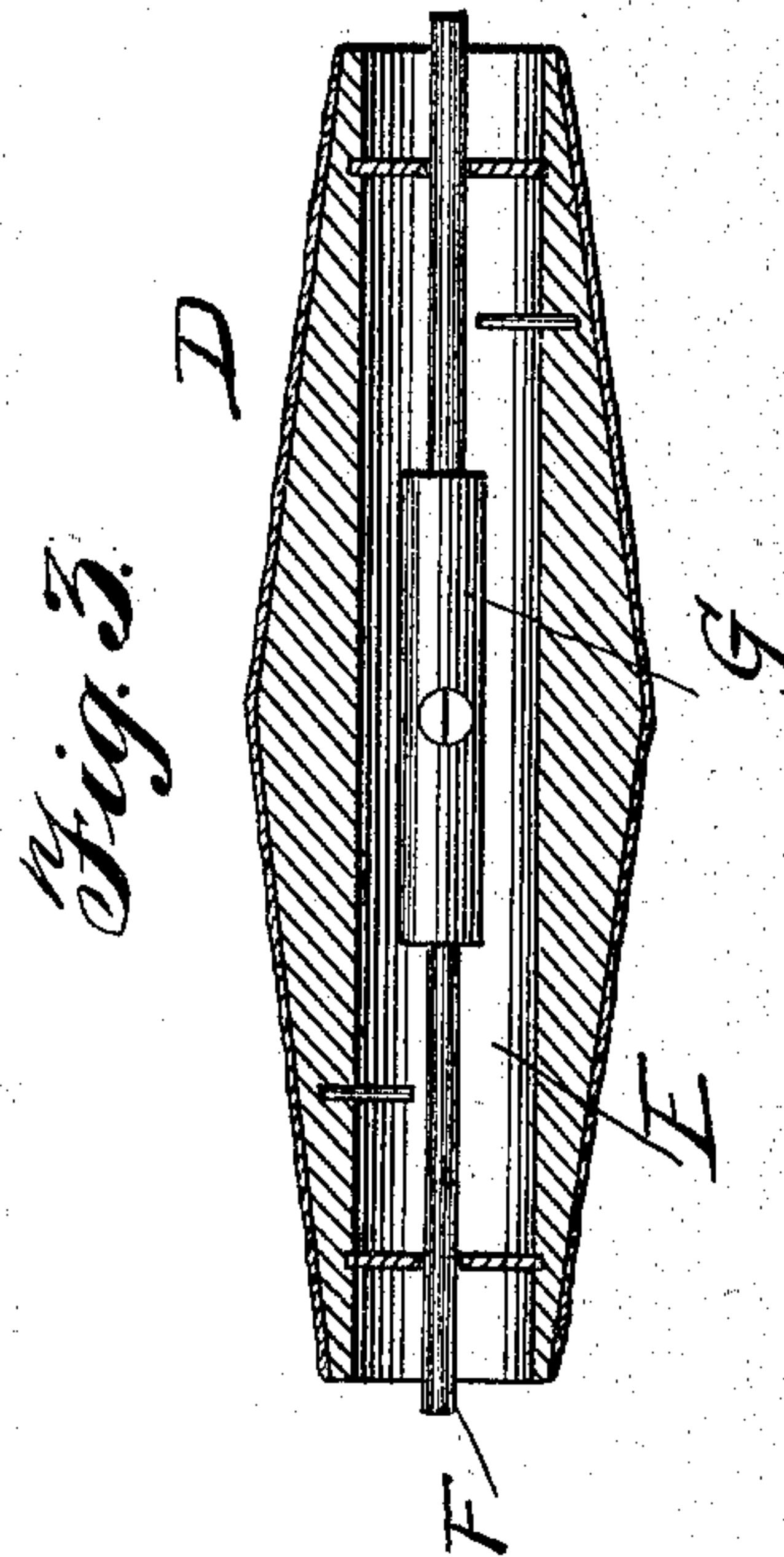
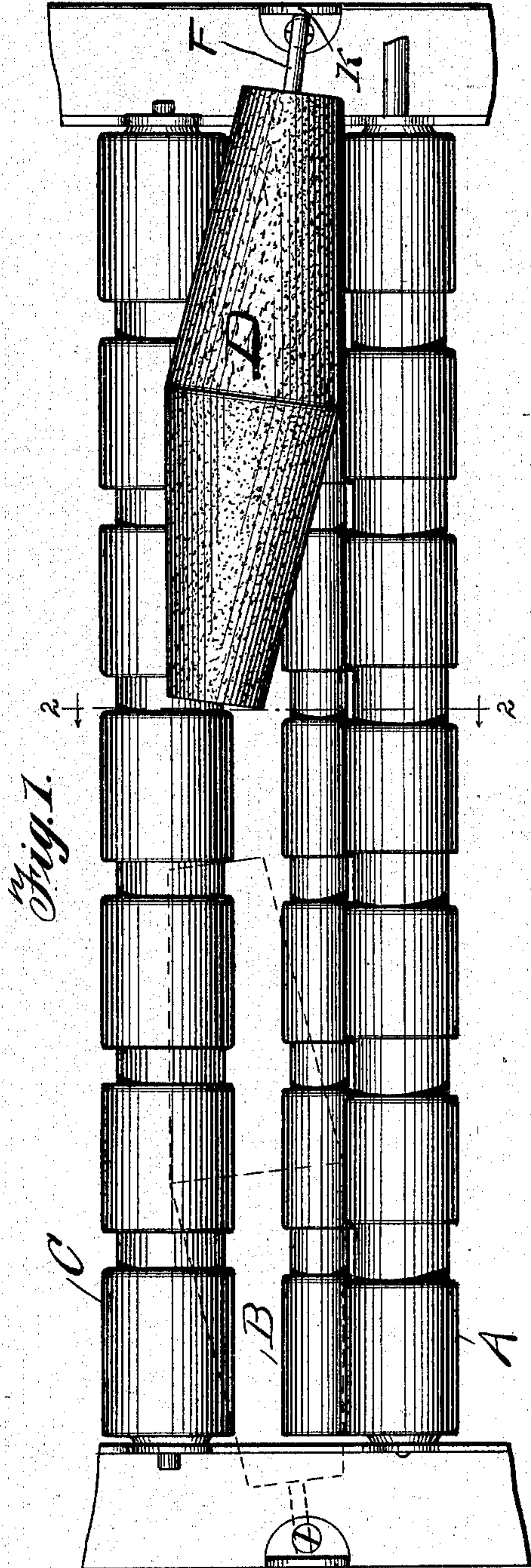
PATENTED MAR. 17, 1903.

V. MAHEU.

ROLL CLEANING DEVICE FOR SPINNING MACHINES.

APPLICATION FILED MAR. 27, 1902.

NO MODEL.

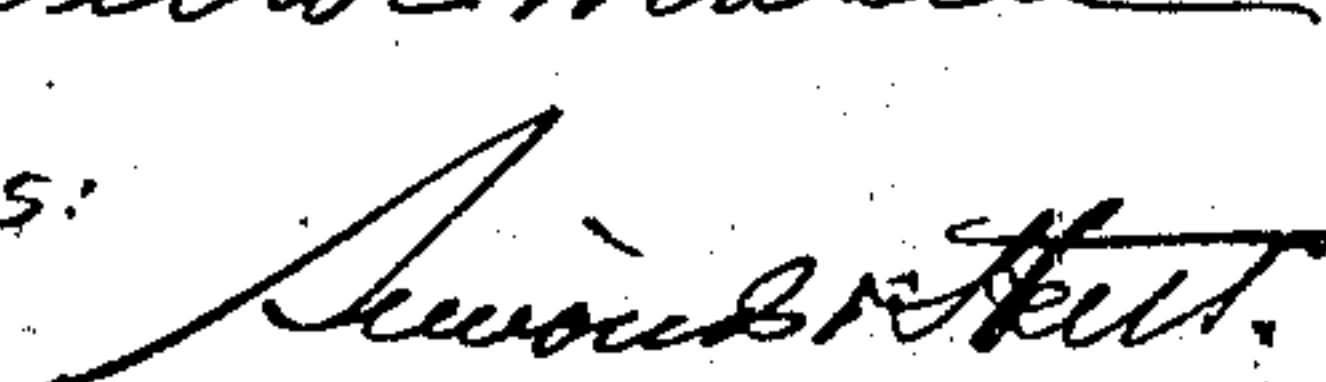


Witnesses: 

F. G. Campbell.

L. Kreimendahl.

Inventor:
Victor Maheu

By his Attorneys: 

UNITED STATES PATENT OFFICE.

VICTOR MAHEU, OF WILLIMANTIC, CONNECTICUT, ASSIGNOR OF ONE-HALF TO JOHN B. MCCARTHY, OF FRANKLIN, MASSACHUSETTS, JOHN O'CONNOR, OF PUTNAM, CONNECTICUT, AND HARRY M. TURNER, OF TURNERSVILLE, CONNECTICUT.

ROLL-CLEANING DEVICE FOR SPINNING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 723,172, dated March 17, 1903.

Application filed March 27, 1902. Serial No. 100,216. (No model.)

To all whom it may concern:

Be it known that I, VICTOR MAHEU, a citizen of the United States of America, residing at Willimantic, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Roll-Cleaning Devices for Spinning-Machines, of which the following is a specification.

Figure 1 is a view of part of a machine, showing my roll-cleaning device applied thereto. Fig. 2 is a sectional view on the line 2-2 of Fig. 1. Fig. 3 is a sectional view of the roll-cleaner.

For the purposes of illustrating and describing my invention I have shown in the drawings three rolls A, B, and C, which may represent the rolls of a spinning-machine. These rolls are arranged in the machine one slightly in advance of the other, and in order to keep them clean it has been customary to make use of a solid conical-shaped cleaner covered with a cloth or some like material, which is supported between these rolls and contacts with them, substantially as shown in the drawings. As the spinning-rolls revolve very rapidly, this conical roll travels lengthwise of them and cleans off any dust or dirt which accumulates. When these cleaners reach the end of the rolls, it is necessary to reverse their position, so that they will travel back again, and this reversing has always been done by hand. There are hundreds of these cleaners used in a mill, and it is considerable trouble and bother to change their position and keep them moving all the while.

The object of my invention is to produce a cleaning device which will automatically change its position so that it will continuously travel from side to side of the machine and relieve the attendant from watching and taking care of it.

In carrying out my invention I make use of a cleaner D of a double-conical form with the larger ends of the cones together. This cleaner is hollow, as at E, and has extending through it a wire or rod F, which is of greater length than the body of the cleaner. This rod is free to move through the cleaner and has secured to it a weight G. At each side of the frame of the machine appurtenant to the rollers is a stop K.

The operation of the device is readily understood. When the cleaner is tilted in the position shown in Fig. 1, it is moving across the rolls from left to right, it being held in that position by the weight. It will be seen that the rod F is projecting a little beyond the end of the cleaner. As the cleaner moves still farther to the right it will move up on the rod, which is held against further movement by the plate K. The weight which is secured to the rod passes the center of the cleaner and tilts it in the opposite direction, and the cleaner will immediately begin to move from right to left with the rod projecting from its left end. When it gets to the opposite side of the machine, as shown in dotted lines in Fig. 1, the rod comes in contact with the plate K and stops, while the cleaner continues to move up onto the rod until its position is reversed. This action continues as long as the machine is running, the cleaner moving continuously from one side of the machine to the other and keeping the rolls in as clean a condition as possible.

It is clear that the details of construction of the cleaner can be varied without departing from the spirit of my invention, and I do not care to be limited in the use of this cleaner to rolls grouped or arranged as shown in the drawings.

I claim as my invention—

1. In a machine of the class specified the combination with the rolls, of an automatically-reversible cleaning device therefor comprising the hollow body, a weight located within the body, and means for supporting said weight free from contact with the interior side walls of the hollow body.

2. In a device of the class specified the combination with the rolls, of an automatically-reversible cleaning device therefor comprising the hollow body, the weight located therein, and a support for said weight, extending beyond the body, substantially as described.

3. A cleaning device for the rolls of spinning-machines comprising the hollow body, the weight located therein, and a rod extending through said body and capable of movement lengthwise thereof, said weight being secured to said rod, substantially as described and for the purposes set forth.

4. In a machine of the class specified, the

rolls, stops located at each side of the machine appurtenant to said rolls, a cleaning device for said rolls comprising a body part, a rod passing through said body, and a weight secured to
5 said rod, said rod being longer than the body of the cleaner and adapted for movement therethrough, substantially as described.

5. In a machine of the class specified the combination with the rolls, of a cleaning de-
10 vice therefor comprising a hollow body of double-conical form, a weight located within the body, means for supporting said weight free from contact with the sides of the hollow
15 body, in combination with means acting upon said weight to move it from one end of the body to the other whereby the position of the

body and the direction of its movement is altered.

6. The combination in a device of the class specified with the hollow body of greater di- 20
ameter at its center than at its ends, a weight located within said body, of means for acting positively on the weight to change its position from one end of the body to the other
whereby the position of the body and its di- 25
rection of movement is reversed.

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

VICTOR MAHEU.

Witnesses:

J. O'SULLIVAN,
C. E. LARKIN.