

(No Model.)

A. ALDRICH.

SPINDLE BOLSTER FOR SPINNING FRAMES.

No. 297,959.

Patented May 6, 1884.

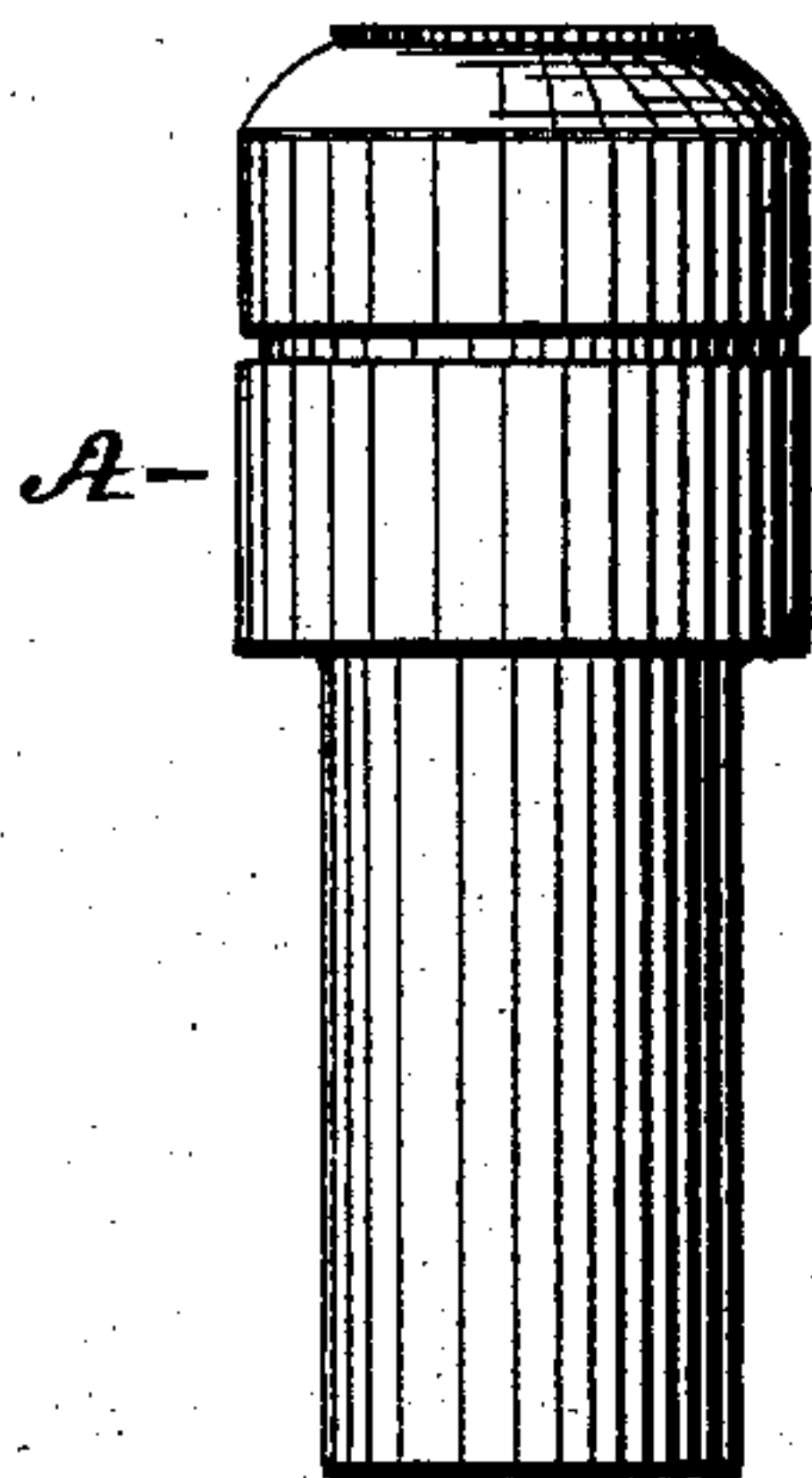


FIG. 1.

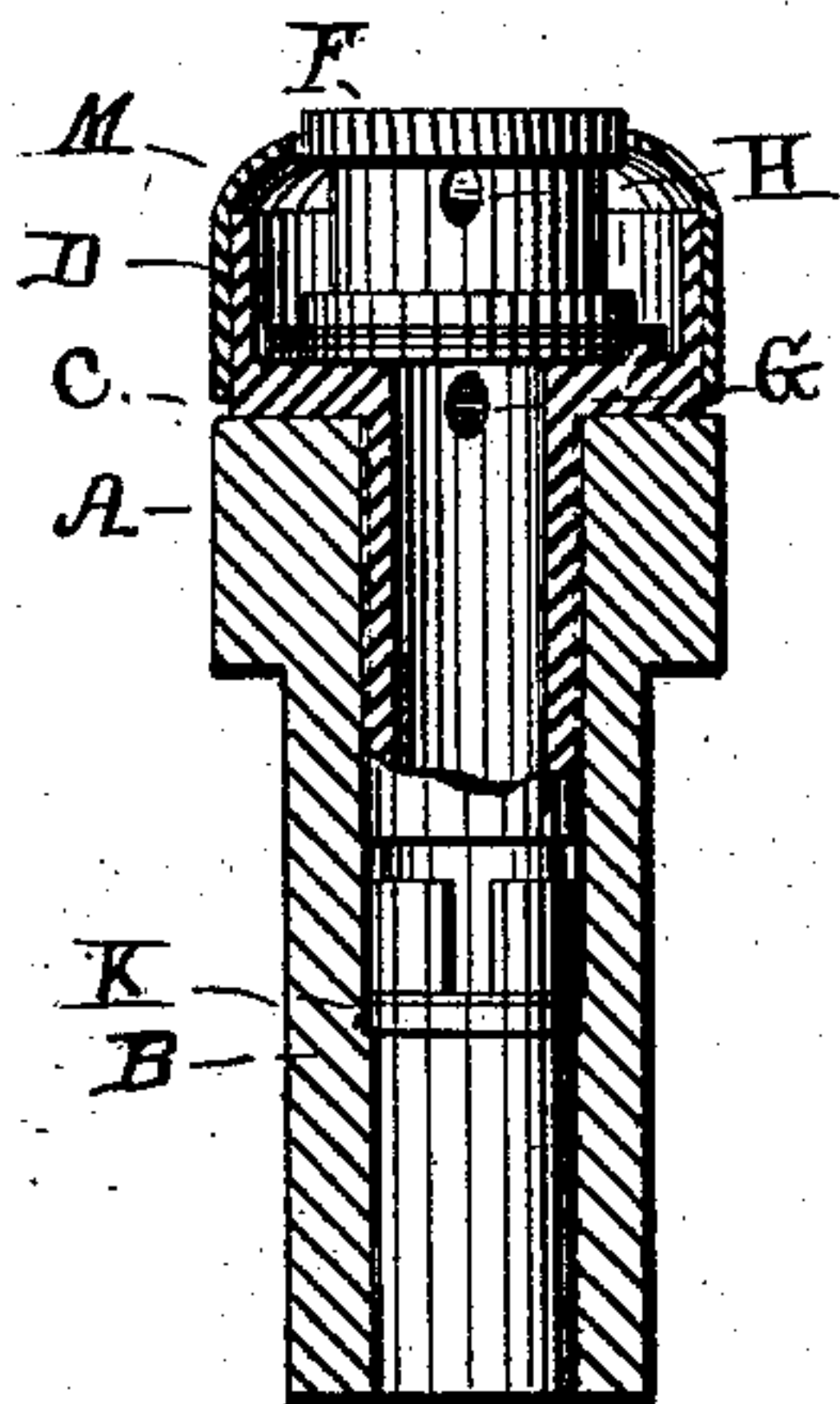


FIG. 2.

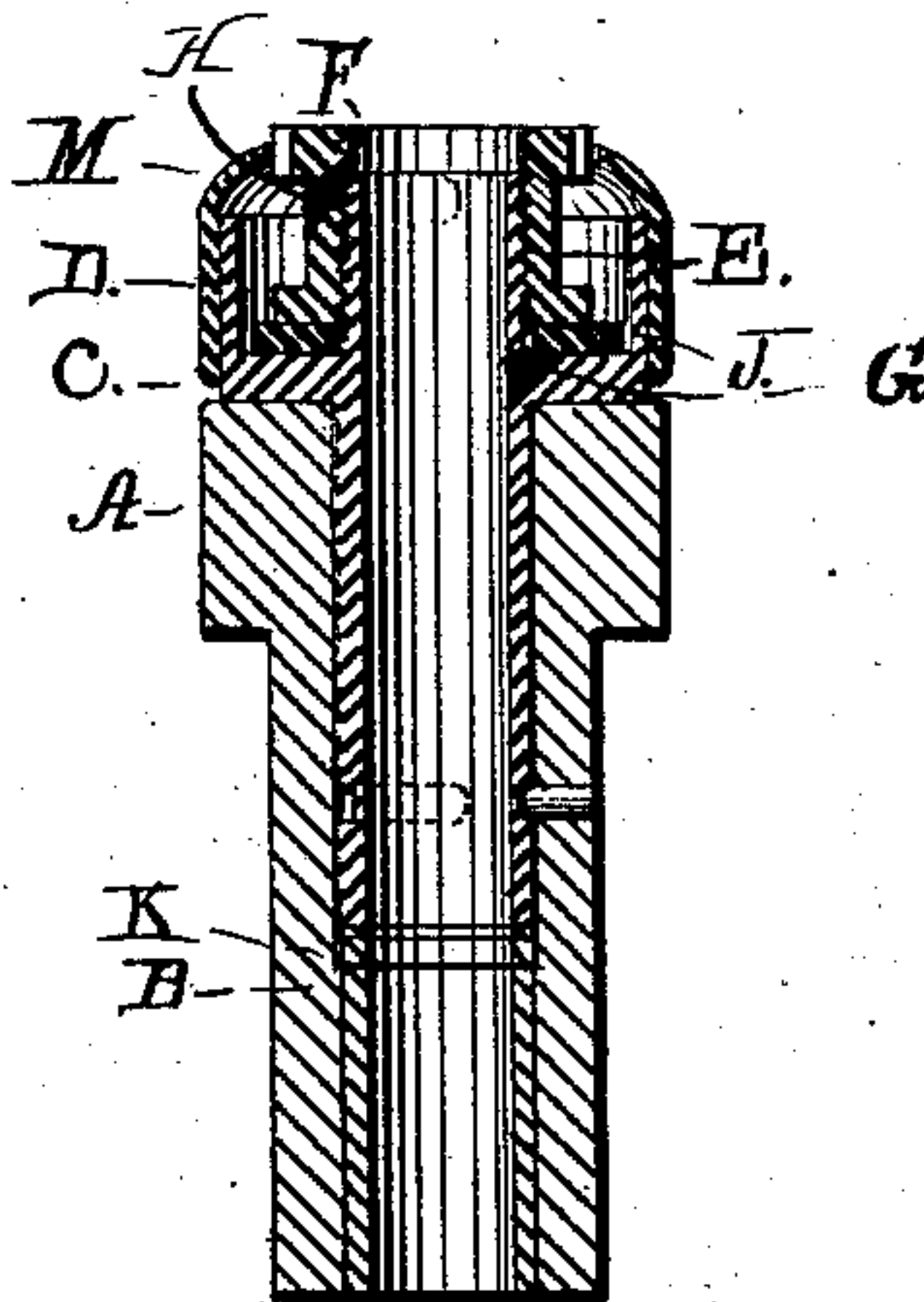


FIG. 3.

WITNESSES,

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# UNITED STATES PATENT OFFICE.

AARON ALDRICH, OF TAUNTON, MASSACHUSETTS.

## SPINDLE-BOLSTER FOR SPINNING-FRAMES.

SPECIFICATION forming part of Letters Patent No. 297,959, dated May 6, 1884.

Application filed September 15, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, AARON ALDRICH, of Taunton, in the Commonwealth of Massachusetts, have made certain new and useful Improvements in Spindle-Bolsters for Spinning-Frames; and I do hereby declare that the following specification, taken in connection with the drawings, making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a view in elevation of my improved device. Fig. 2 is a partial vertical section of same, showing the parts for regulating the flow of oil. Fig. 3 is a complete vertical section of the device.

The object of my invention is to more perfectly and accurately regulate the supply of oil to the spindle; and it consists in the combination and arrangement of the packing and its regulating-sleeve, in connection with the other parts, as hereinafter described.

In the drawings, A is a socket or holder for the bolster, which is placed and secured in the rail, and has an interior shoulder, B.

C is the bolster, which is retained in the socket or holder by means of devices set forth and described in Letters Patent of the United States issued to me January 2, 1877, No. 185,847. The upper portion of the bolster C forms a cup, D, within which is an extended end or elongation, E, of said bolster C, having upon its exterior a screw-thread.

F is a regulating-sleeve, which is provided with an interior screw-thread, and works upon the elongation E of the spindle-tube.

G is a passage connecting the cup D and the interior of the spindle-tube.

H is a passage through the sleeve F.

J is a packing upon the bottom of the cup D and surrounding the elongation E.

K is a packing resting upon the interior shoulder, B, of the socket or holder A.

M is a cap through which the sleeve F protrudes, and which protects the cup D from dirt.

The operation of my invention is as follows:

A suitable quantity of oil is placed in the cup D, and flows through the passage G to the inside of the spindle-tube and the spindle. Such flow is regulated by the packing J and the sleeve F. The packing J lies over and covers the opening into the passage G in the bottom of the cup D, the pressure upon such packing J being regulated as may be desired by raising or lowering the sleeve F to increase or diminish the flow, the upper rim of the sleeve F being provided with a milled edge to facilitate its manipulation. The tail-piece of the bolster C, which extends downward in the socket or holder A, is not of sufficient length to rest upon the interior packing supported by the shoulder B, although reaching nearly thereto. The purpose of the interior shoulder and packing described is to catch and retain any excess of oil which perchance may be delivered to the interior of the spindle-tube, which, being so held, will by the constant rotation of the spindle be worked upward and compelled to continue its lubrication. The passage H through the sleeve F will at all times be above the elongated end of the spindle-tube, and will carry back to the cup D any oil that may be worked up by the spindle.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The cup D and elongation E, having the passage G, reaching from the interior of the bolster to the cup, at the bottom thereof, and the screw-threaded exterior upper end, the adjustable sleeve F, and the packing J, resting between the bottom of the sleeve F and the cup D, substantially in the manner and for the purpose set forth.

2. The socket or holder A, constructed with an interior shoulder, B, and packing K, in combination with a bolster and spindle, as described.

AARON ALDRICH.

Witnesses:

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