

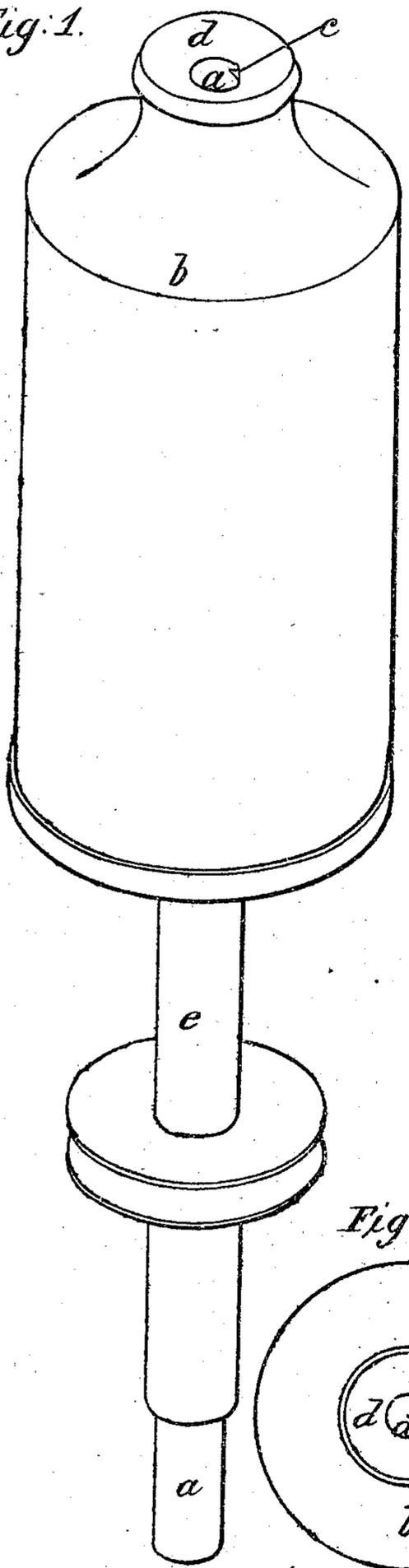
*C. Danforth.*

*Spinning Spindle*

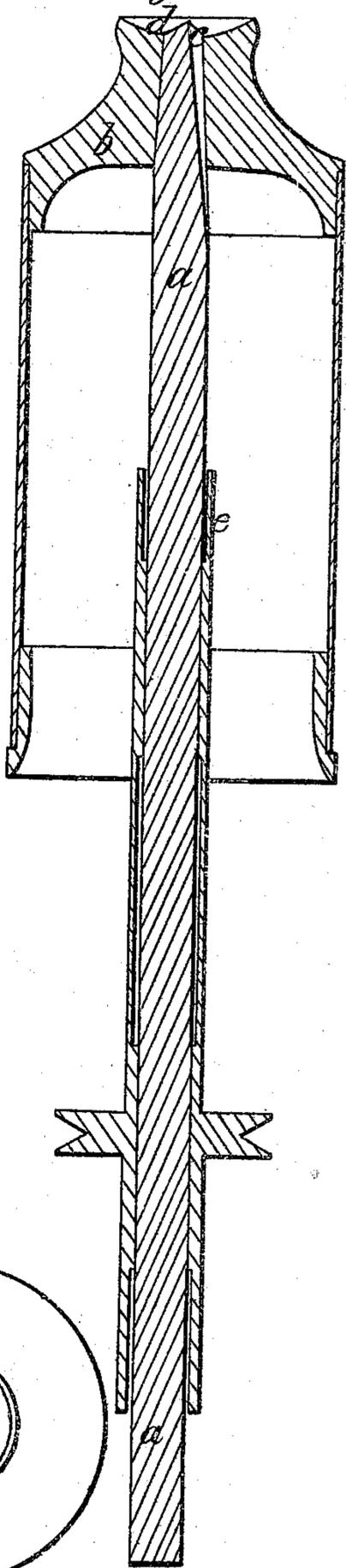
*N<sup>o</sup> 2,575.*

*Patented Apr. 21, 1842.*

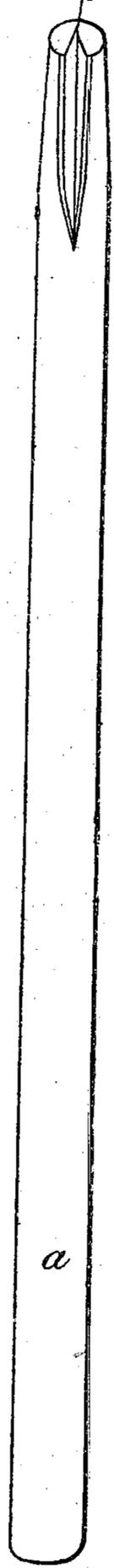
*Fig. 1.*



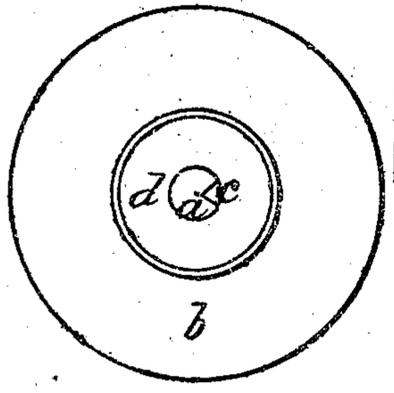
*Fig. 2.*



*Fig. 4.*



*Fig. 3.*



# UNITED STATES PATENT OFFICE.

CHARLES DANFORTH, OF PATERSON, NEW JERSEY.

METHOD OF OILING THE SPINDLES AND TUBES OF CAP-SPINNERS.

Specification of Letters Patent No. 2,575, dated April 21, 1842.

*To all whom it may concern:*

Be it known that I, CHARLES DANFORTH, of Paterson, in the county of Passaic and State of New Jersey, have invented a new and useful Improvement in the Method of Oiling the Spindles and Tubes of the Danforth Cap-Spinning Frame, of which the following is a full and exact description.

The drawings hereunto annexed and which I desire may constitute a part of this specification consists of four parts and are as follows, viz:

Figure 1 is an isometrical view of the cap, tube, and spindle complete. Fig. 2 is a vertical section through the whole. Fig. 3 is a horizontal view of the cap top and spindle.

The letters on all the figures refer to the same parts.

The spindle *a* is made in the usual form with the frustum of a small cone on its upper end which is flattened on one side to fit a conical hole, which is made through the cap top *b*. In the side of this tapering part of the spindle I make a small recess or groove *c*, for a passage for oil, which is dropped into the cavity *d*, formed in the top of the cap top *b*. The object of this cavity is to concentrate the oil to the recess *c*, and to prevent it from running down on the

outside of the cap. The top of the cap top is made larger than usual say seven eighths of an inch in diameter to accommodate a proper sized cavity. When oil is dropped into the cavity *d*, it runs down through the recess or groove *c* and continues its descent on the spindle *a*, to the tube *e* and thus the spindle and tube are supplied and lubricated with oil. I usually make this recess or groove *c* in the flat side of the conical part of the spindle; but it may be made in the circular side, or a groove or recess may be made in the cap top when it comes in contact with the spindle through the conical hole or socket so that a passage may be formed for oil between the cap top and the spindle from the cavity *d* to the lower side of the cap top *b*.

I claim as my improvement—

A cavity in the top of the cap top to hold oil and prevent it from running down on the outside of the cap, in combination with a recess or groove between the cap top, and the spindle, to allow the oil to run down to the tube below, essentially as described in this specification.

CHAS. DANFORTH.

Witnesses:

JOHN EDWARDS,  
AB. PRALL.