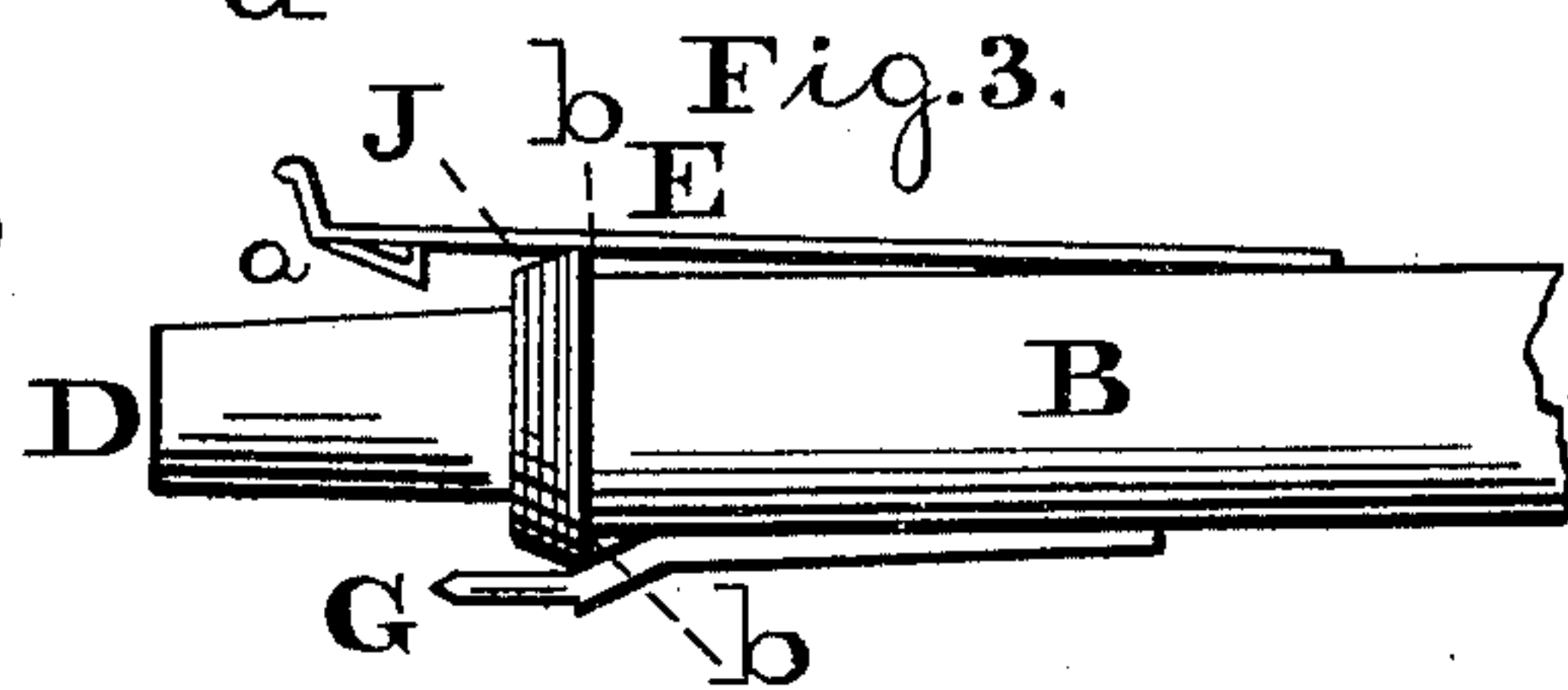
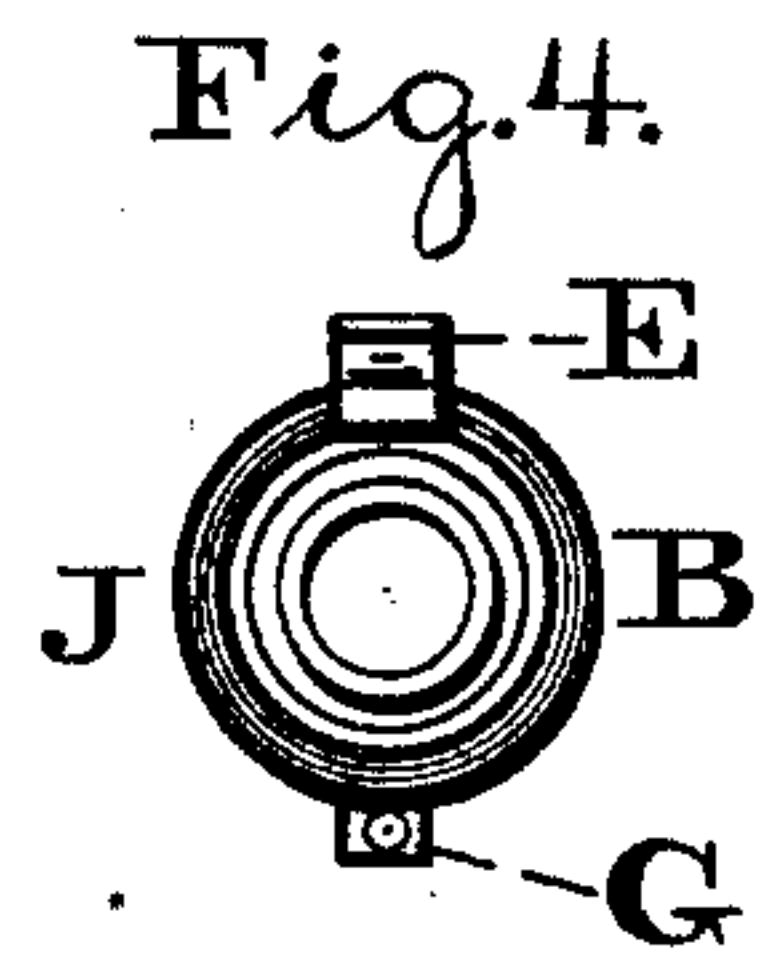
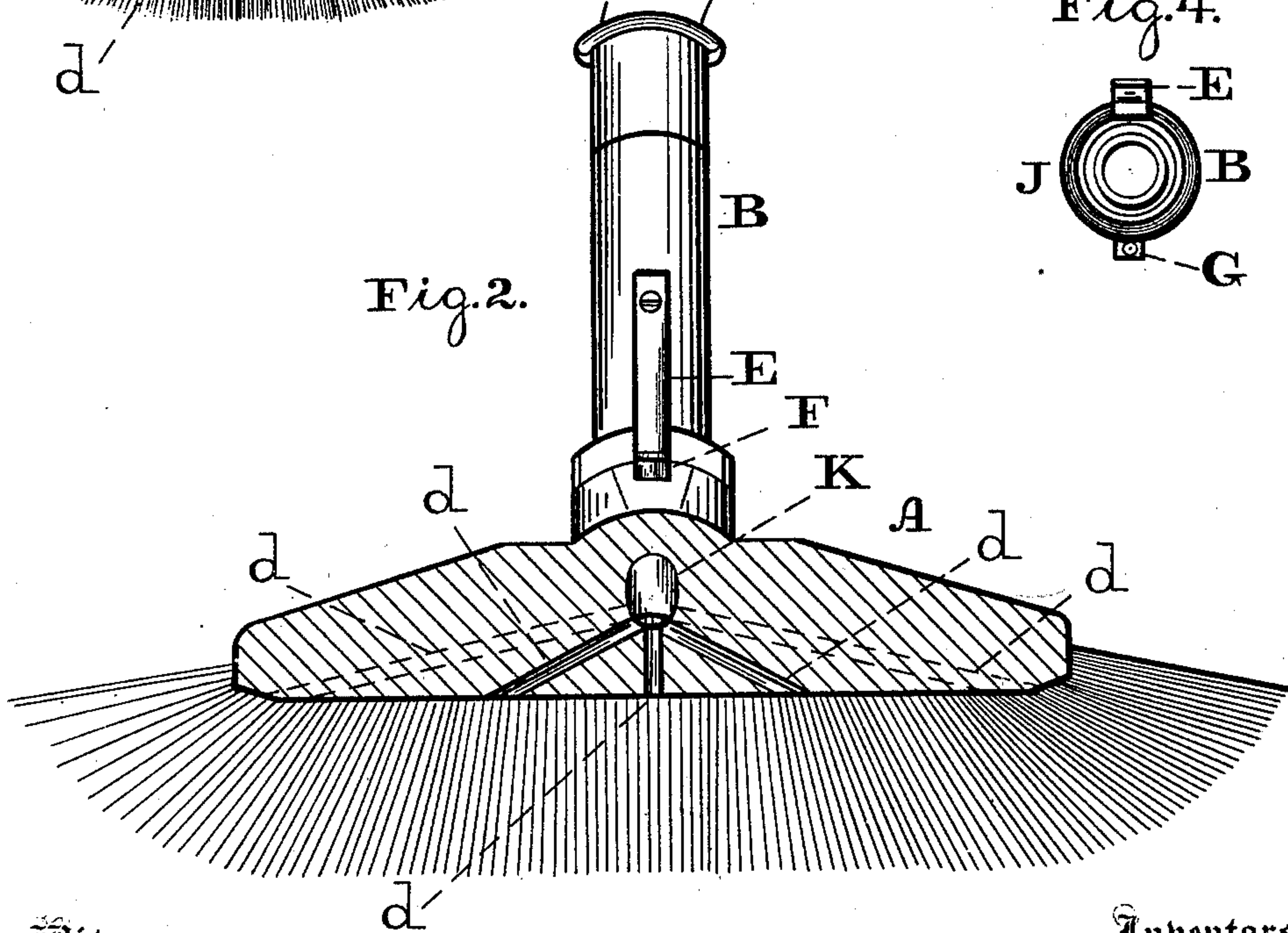
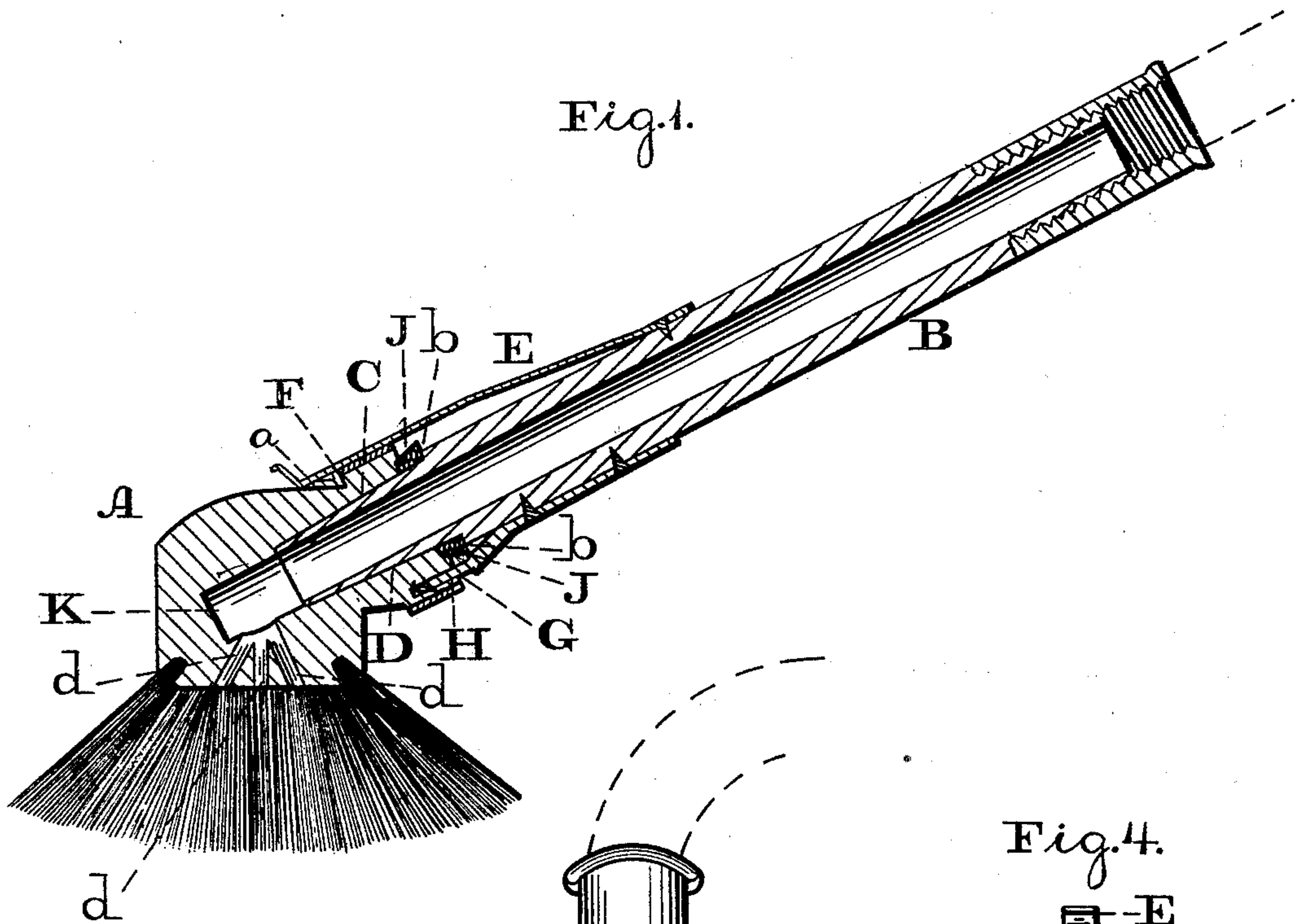


W. DAVIES & P. WERNI.

BRUSHES.

No. 176,169.

Patented April 18, 1876.



Witnesses:

Lewis F. Brown,

Atty. P. Grant.

Inventors:

William Davies,

Peleg Werni.

by John A. Dierksheide
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM DAVIES AND PELAG WERNI, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. **176,169**, dated April 18, 1876; application filed September 20, 1875.

To all whom it may concern:

Be it known that we, WILLIAM DAVIES and PELAG WERNI, both of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Brushes; and we do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which our invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a longitudinal vertical section of the device embodying our invention. Fig. 2 is a transverse vertical section thereof. Fig. 3 is a side view of a portion of the handle. Fig. 4 is an end view thereof.

Similar letters of reference indicate corresponding parts in the several figures.

Our invention consists in securing the handle of a brush to the head thereof by means of a catch and pin, whereby the handle is prevented from turning and being pulled out.

Referring to the drawings, A represents the head of the brush, and B the handle thereof. In the head A there is formed a conical-shaped socket or opening, C, which receives the conical end D of the handle B. To the handle, near the end D, there is secured a spring-catch, E, whose head *a* is adapted to engage with a shoulder or collar, F, on the head of the brush. At another point of the handle there is secured a stud or pin, G, which extends in the longitudinal direction of the handle, and is adapted to enter an opening, H, in the head of the brush. When the handle is to be attached to the head, the end D is introduced into the socket C and the stud G fitted in the opening H. Then force in the handle to its full extent, and the catch E engages with the shoulder or collar F on the head, whereby the head and handle are locked in position.

It will be seen that the stud G prevents rotation of the head of the brush on the handle, and the catch E prevents the disengagement longitudinally of the head and handle, whereby the two parts are reliably connected.

On the upper termination of the conical end D of the handle B there is formed a shoulder, *b*, against which will be fitted a conical packing ring or gasket, J, which, when the handle is in position, will come to a bearing against the wall of the socket C.

As the conical end D of the handle projects into the socket C and tightens itself the more it is forced therein, the gasket J at the upper termination closes the outer termination of the joint between the said end D and socket C, and thus insures a tight and reliable joint.

Water will be introduced to the head A through the hollow of the handle B, and reach a chamber, K, formed in the solid portion of the head, and communicating with the socket C thereof.

From the chamber K there diverge a series of water-passages, *d*. It will be seen that when the water is turned on it fills the chamber K and escapes through said passages *d*, thus reaching every portion of the rubbing-face of the brush, and causing water to be continually had at said face while the brush is in service.

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

The handle B, having a catch, C, and stud G, in combination with the head A, having shoulder F and opening H, substantially as and for the purpose set forth.

WM. DAVIES.
PELAG WERNI.

Witnesses:

JOHN A. WIEDERSHEIM,
JNO. A. BELL.