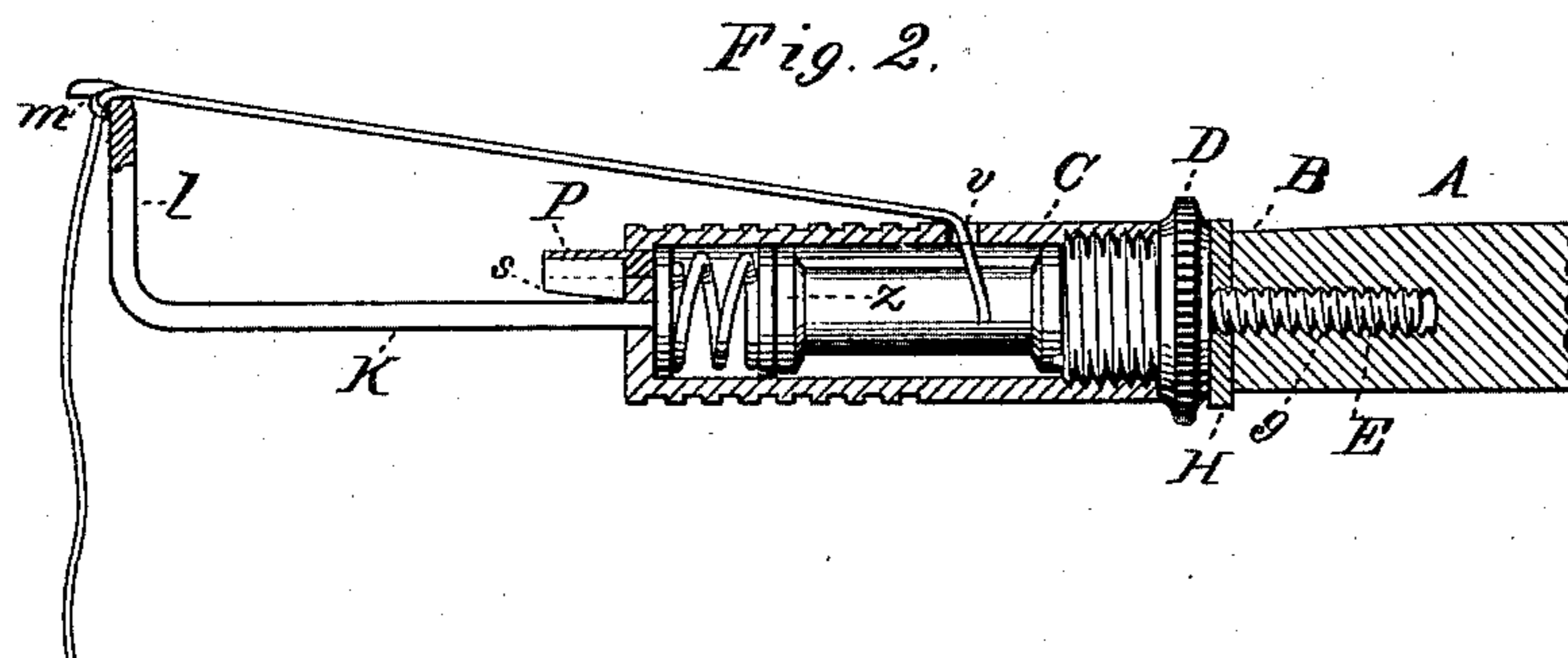
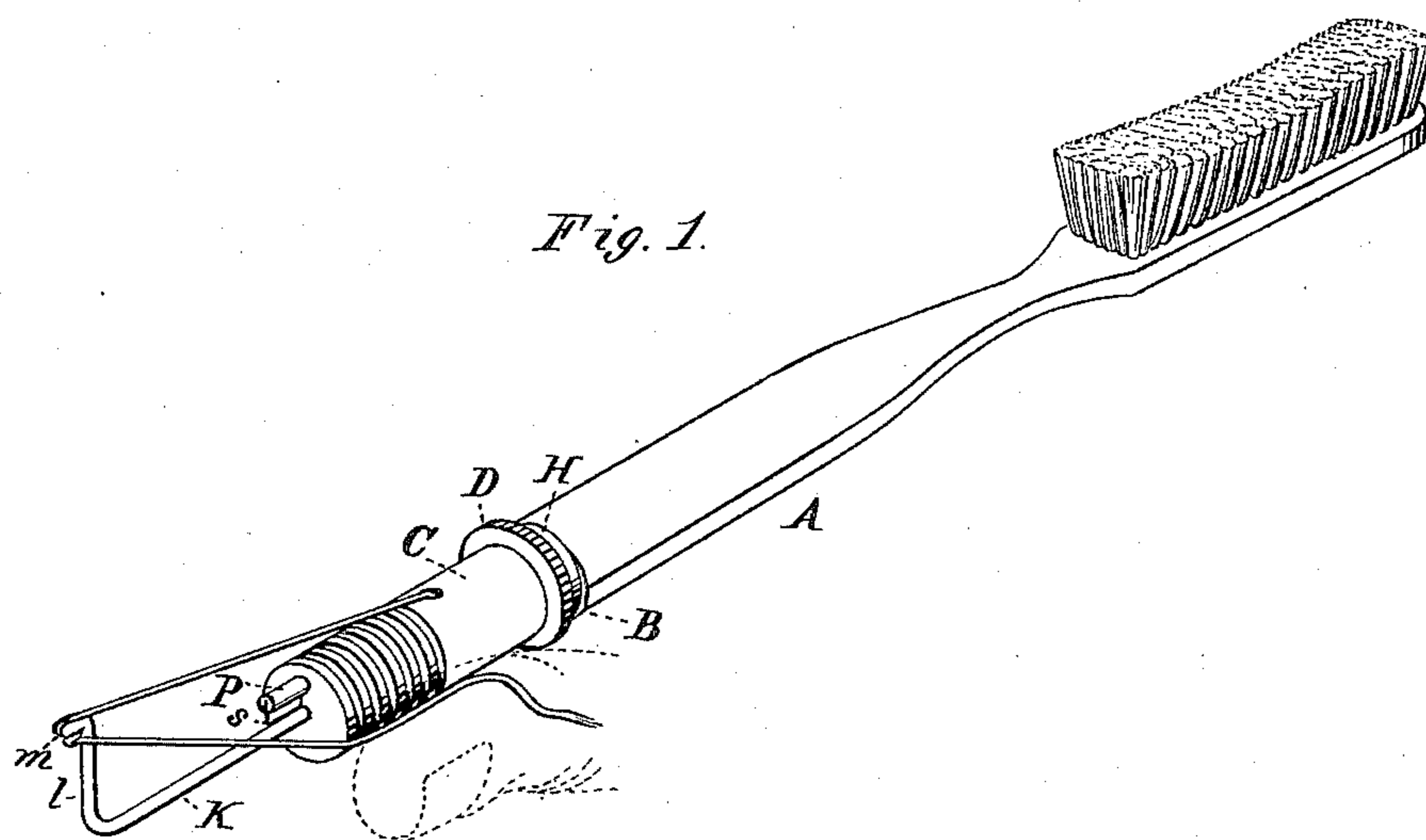


(No Model.)

G. E. GREENE.
DENTAL FLOSS HOLDER.

No. 301,055.

Patented June 24, 1884.



WITNESSES

Villette Anderson.
John T. Morrow.

INVENTOR

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UNITED STATES PATENT OFFICE.

GEORGE E. GREENE, OF GARDNER, MASSACHUSETTS.

DENTAL-FLOSS HOLDER.

SPECIFICATION forming part of Letters Patent No. 301,055, dated June 24, 1884.

Application filed March 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. GREENE, a citizen of the United States, residing at Gardner, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Teeth-Cleaners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a perspective view. Fig. 2 is a sectional view.

This invention has relation to floss-silk-holding attachments for tooth-brushes; and it consists in the construction and novel arrangement of the perforated barrel having an outwardly-turned spring bow-arm formed with a cleft end catch, the cap of the barrel having a screw-stem, whereby it is attached to the end of the tooth-brush, the cutter-arm turned toward the spring bow-arm, the rubber washer, and the spool carrying the floss-silk in the cavity of the barrel, all as hereinafter set forth, and pointed out in the appended claims.

In the accompanying drawings, the letter A designates the hand of an ordinary tooth-brush, made short or cut off at B to provide a plane end bearing.

C represents the barrel of the attachment, having a cap, D, which is usually made with a thread on its circular lip, being designed to screw into the mouth of the barrel, which is turned toward the end of the brush-handle when attached thereto. The cap D is provided with a screw-stem, E, which is rigidly attached thereto, and is designed to have a coarse strong thread, so that it can be readily turned into a perforation, G, made in the end of the handle at about the center of the plane bearing-surface. When the barrel is attached, it forms an extension of the handle, lengthening it sufficiently for manipulation. A washer, H, is placed on the screw-stem between the cap and the end bearing, B, of the brush-handle.

K indicates a bow-arm, which extends from the end of the barrel in the axial direction, terminating in a laterally-bent portion, L, having at its end an outwardly-turned cleft catch, M.

P represents a cutter-arm extending parallel to the shank of the bow-arm from the end of the barrel, to which it is rigidly secured, and having its blade or cutting-edge S turned toward the arm, an interval being left between the bow-arm and blade sufficient to admit the floss-silk to be cut.

Z represents the spool, which is wound with the floss-silk and is placed within the barrel, the end of the floss-silk being drawn through a perforation, V, in the lateral wall of the barrel on that side to which the bow-arm is turned. The flange ends of the spool are beveled to prevent the floss-silk from catching when being unwound. The rubber washer enables the user to turn the attachment to a firm bearing, and at the same time sufficiently to bring the bow in the right position for use, which is preferably toward the front or brush side of the handle. A sufficient length of the floss-silk being drawn through the perforation in the barrel, a knot is tied in the end and passed through the cleft end catch of the bow, which holds it securely, the loose end being held against the rough end of the barrel by the thumb or finger of the right hand. The floss-silk can be easily applied to the teeth, and is held firmly by the cleft catch and the tension-spring, so that it cannot be wasted by unwinding from the spool in the barrel of the attachment. The portion used is easily separated by means of the cutter, and the barrel or case serves to keep the main portion of the silk from dust or moisture and always ready for use.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the barrel floss-silk holder having a screw-stem, of the threaded cap and a tooth-brush having one end of its handle provided with a threaded aperture to receive the stem of the holder, substantially as specified.

2. The floss-silk-holding attachment for tooth-brushes, consisting of the perforated bar-

rel and cap, the screw-stem and washer, the outwardly-turned bow-arm having a cleft end, and the spool, substantially as specified.

- 5 3. The floss-silk-holding attachment for tooth-brushes, consisting of the barrel, its cap and inclosed spool, the bow-arm, and cutter turned toward the bow-arm, substantially as specified.

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

GEORGE E. GREENE.

Witnesses:

CARRIE J. GODDARD,
JULIAN P. DUNN.