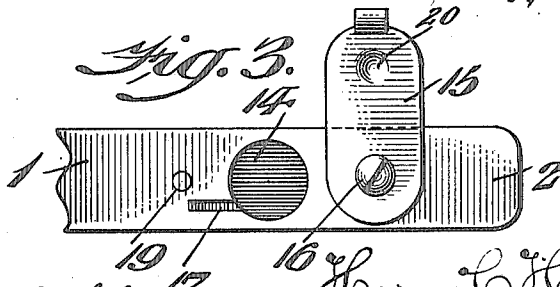
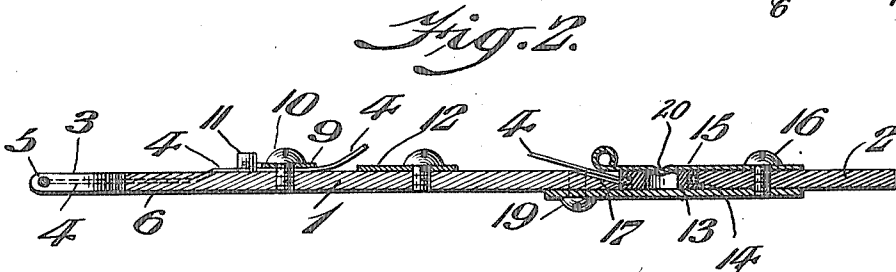
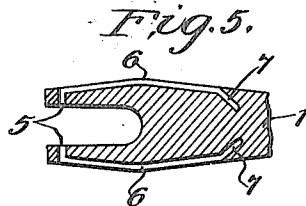
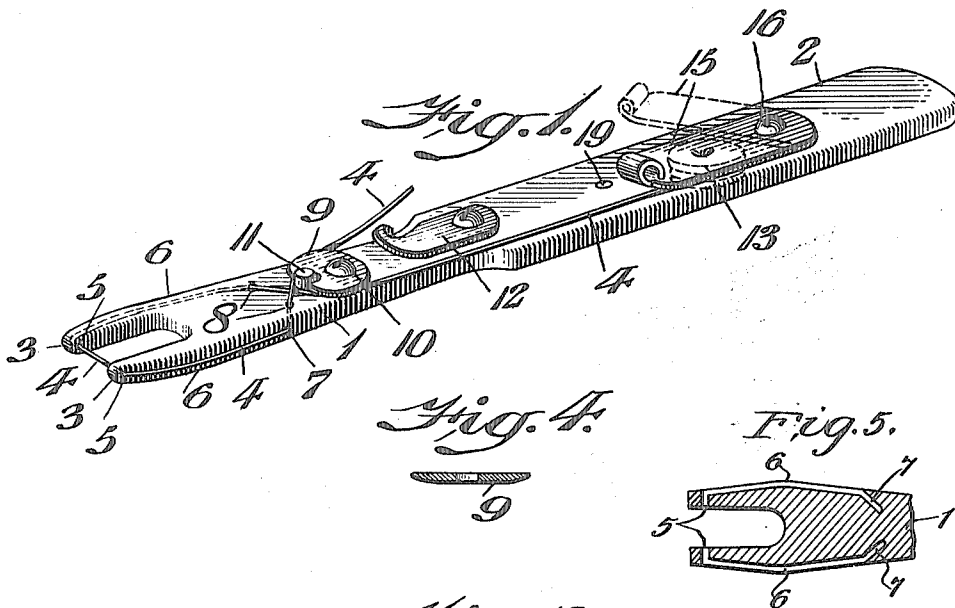


H. C. HOCHSTADTER.
DENTAL FLOSS HOLDER.

APPLICATION FILED AUG. 5, 1916. RENEWED JAN. 11, 1918.

1,257,864.

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WITNESSES

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HARRY C. HOCHSTADTER, OF PHILADELPHIA, PENNSYLVANIA.

DENTAL-FLOSS HOLDER.

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To all whom it may concern:

Be it known that I, HARRY C. HOCHSTADTER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Dental-Floss Holder, of which the following is a specification.

My invention consists of a holder for dental floss, silk, or other thread, embodying a stock having thereon a bow on which the floss is bridged, means for controlling the thread tightly in position, means for cutting or severing the portion of the floss after use, and means for spooling or reeling the thread on the device for supply purposes.

The invention is satisfactorily illustrated in the accompanying drawing, but the important instrumentalities thereof may be varied, as long as they are included in the scope of the claims.

Figure 1 represents a perspective view of a dental floss holder embodying my invention.

Fig. 2 represents a central longitudinal section thereof.

Fig. 3 represents a top or plan view of a detached portion of said holder.

Fig. 4 represents a transverse section of the clamp employed for holding the floss.

Fig. 5 represents a longitudinal section of a portion of the stock thereof.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings,

1 designates a stock or body of the device composed of a flat or other shaped plate, and 2 designates a portion thereof comprising the handle therefor.

The end of the stock has thereon the separate arms forming the bow 3 across which is stretched the piece 4 of dental floss, or floss-silk (or other thread), the ends of the bow having therein the eyes 5 through which said piece 4 is passed, the outer sides of said bow and the sides 6 of the adjacent portions of the stock 1 being grooved in the longitudinal direction thereof so as to have portions of said piece supported thereon after passing from the eyes 5 to the transverse openings 7 in said sides, said openings 7 extending obliquely through the stock and terminating on the face thereof as at 8, said piece being passed through said openings 7 and appearing on said face.

9 designates a clamp which is composed of a plate and is secured to the face of the stock by the screw 10 and has its side edges separated from said face so that portions of the piece 4 may be passed under said plate and so clamped to the stock, whereby the piece 4 will be held taut on the bow 3. On said face forward of the clamp 9 is the post 11 which serves to guide portions of the piece 4 in crossed condition to the clamp, it being now noticed that the piece 4 will be held firmly in position on the bow, and the portion of the same stretched on said bow may be inserted between the teeth and so employed to cleanse the same as usual in such cases, after which the portions of the piece 4 held by the clamp are released of the latter, and the piece run off in such manner from the bow that a fresh portion of the piece may be supplied to the bow, while the portion of the piece that has been used for cleansing may be severed from the remainder.

For this purpose, there is secured to the side of the implement the blade 12 whose cutting edge is convenient at the side of the stock so that the used portion of the piece reaching said edge may be pressed against the latter and thus severed or cut and thereby removed from the implement.

In order to supply the bow with the floss, silk or thread, I employ the reel or spool 13 which freely occupies the recess 14 in the face of the handle 2, and has the silk or thread wound thereon, said spool and recess having over it the plate 15 on which it is pivotally connected with the handle 2 by the screw 16. In order to permit the silk or thread to pass under the cover 15 as it is run off of the spool, I form in the face of the handle adjacent the recess 14, the groove 17 forming a runway for the silk or thread as the latter is drawn off from the spool on its way to the bow 3.

In order to provide the fullest depth of the recess 14 to receive the spool 13, said recess is formed entirely through the handle 2, and what may be termed the bottom of said recess is closed by the plate 18 which is secured to the underside of the handle by the screws 16 and 19, or other means, as best understood on reference to Fig. 2. In the plate 15 is the punched-in stud 20 which is adapted to spring into the reel or spool 13

and form an axis to cause said spool to turn on said stud and avoid frictional contact with the wall of the recess 14.

Having thus described my invention what I claim as new and desire to secure by Letters Patent, is:—

1. In a holder for dental floss, a stock, and arms thereon forming a bow which is adapted to carry the portion of the floss to be presented to the teeth, said stock having grooves in its sides, openings extending from the terminals of said grooves obliquely inwardly on the stock and from thence outwardly through the face of said stock, and a clamp on the stock rearward of said openings.

2. In a holder for dental floss, a stock, arms thereon forming a bow which is adapted to carry the portions of the floss to be presented to the teeth, a plate member on said stock for clamping portions of the floss and holding it tightly in position and a post on the stock in advance of said clamp adapted to direct the floss in cross condition to said clamp.

3. In a holder for dental floss, a stock, means thereon for holding the portion of the floss that is to be presented to the teeth, a clamp on said stock, said stock having therein openings through which the floss is adapted to be passed, and a post on said

stock in advance of said clamp on which the floss may be crossed prior to being clamped.

4. In a holder for dental floss, a stock, a handle therefor, means on said stock for holding the portion of the floss that is to be presented to the teeth, said stock having therein a recess, a spool for the floss adapted to be seated and retained in said recess, and a cover mounted on the stock adapted to close said recess, said cover having thereon a punched-in stud adapted to engage the bore of the spool.

5. In a holder for dental floss, a stock, a handle therefor, means on said stock for holding the portion of the floss to be presented to the teeth, a spool for the supply of floss, said handle having therein a recess extending therethrough to contain said spool, a movable cover on said handle over said recess and spool, and a plate on said handle below said recess and spool, said plate being adapted to cover the underside of said recess, and being movably connected with said handle and provided with means for retaining it in closed position.

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Witnesses:

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