

No. 826,818.

PATENTED JULY 24, 1906.

J. H. ABBOTT.
DENTAL TOOL.

APPLICATION FILED DEC. 14, 1905.

Fig. 1.

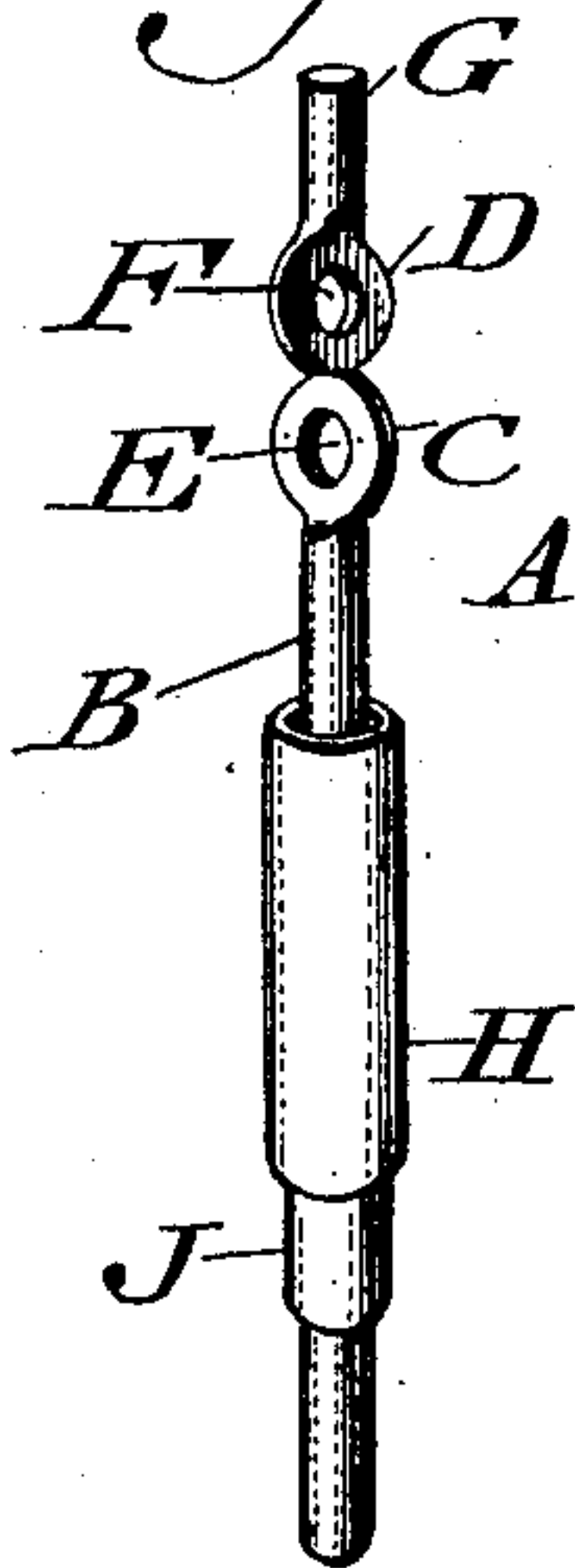


Fig. 2.

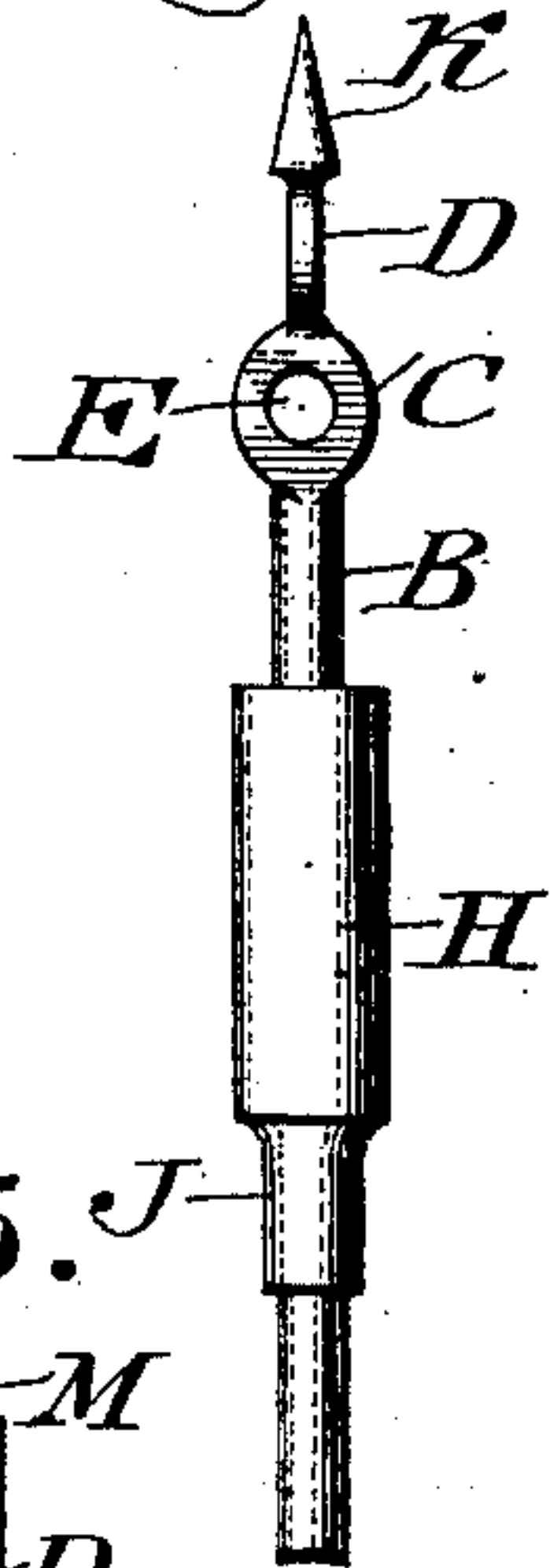


Fig. 3.

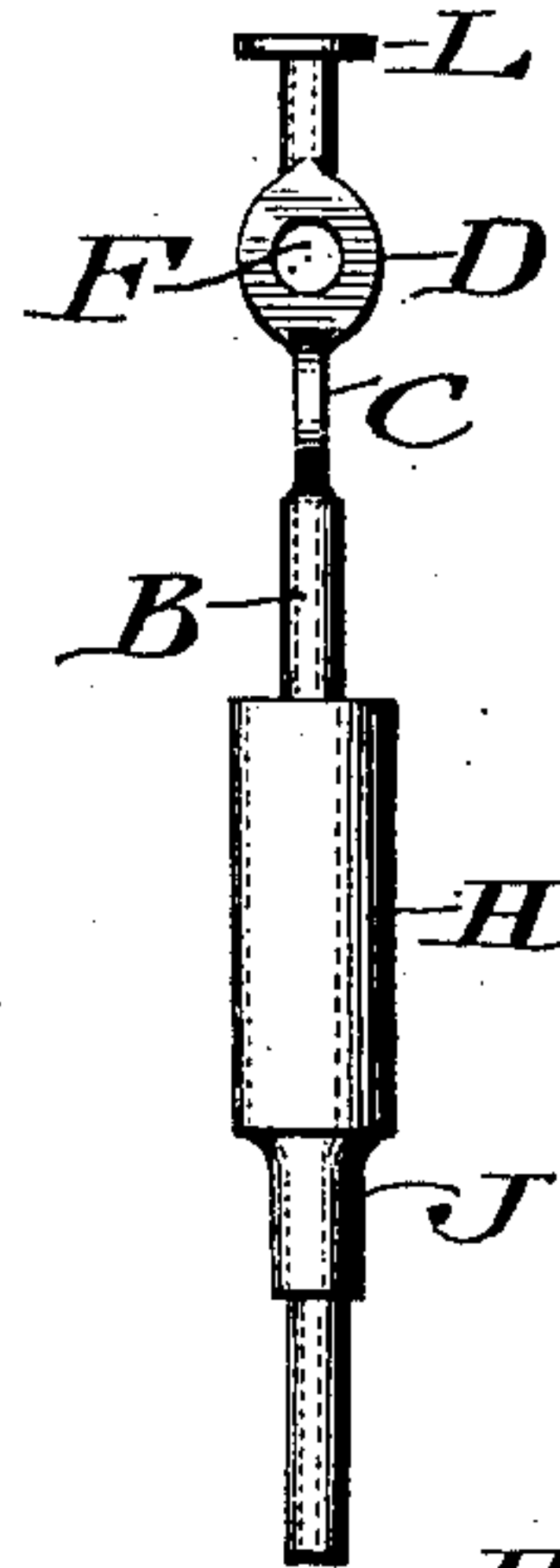


Fig. 5.

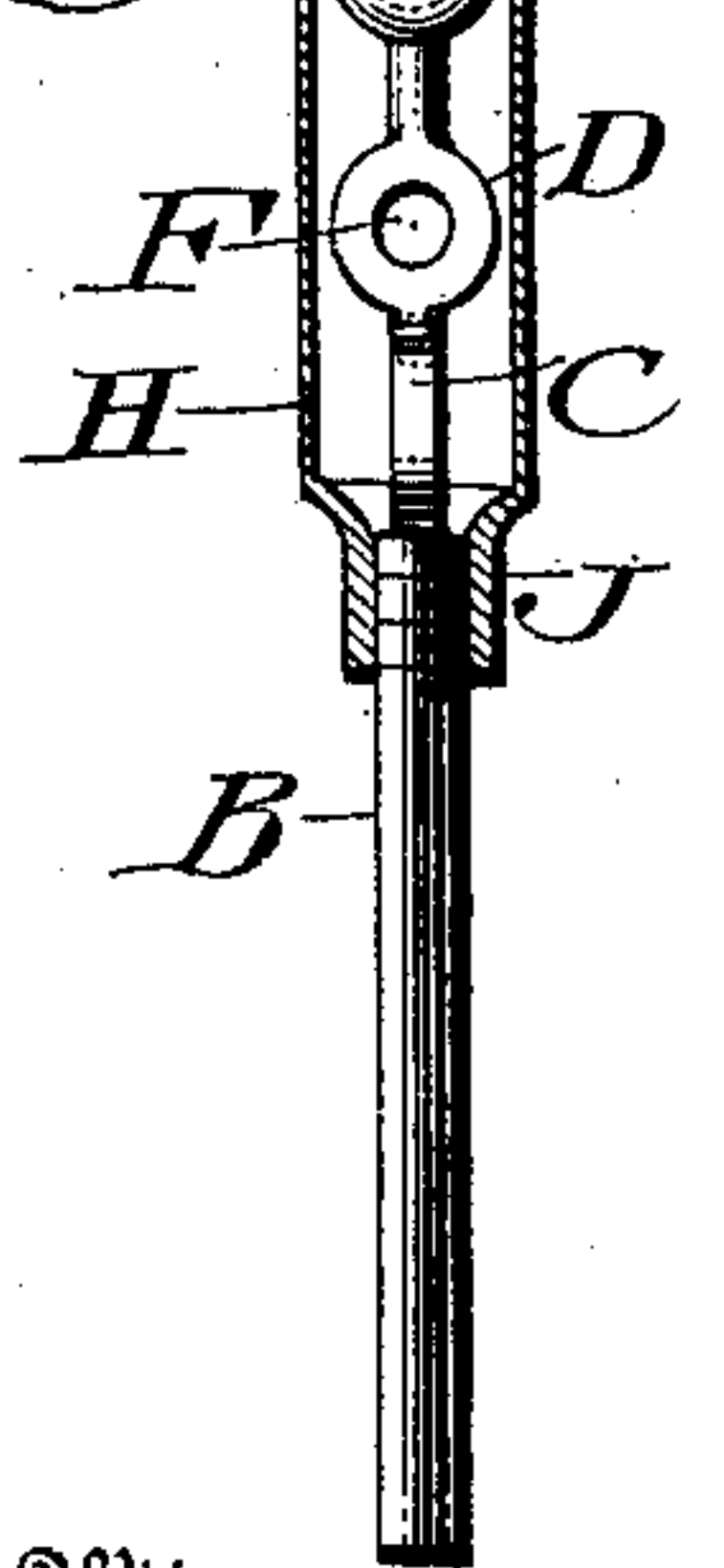
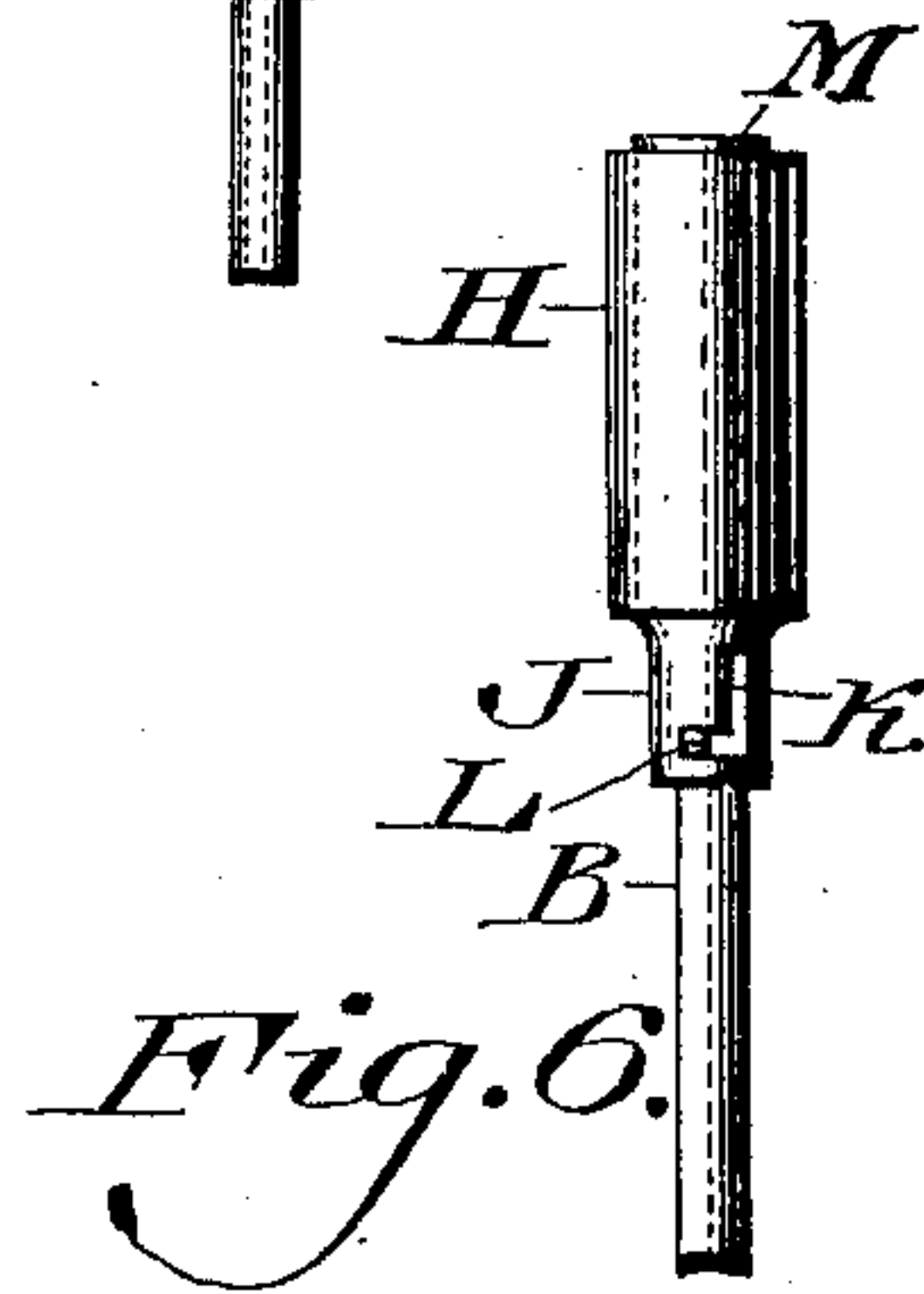
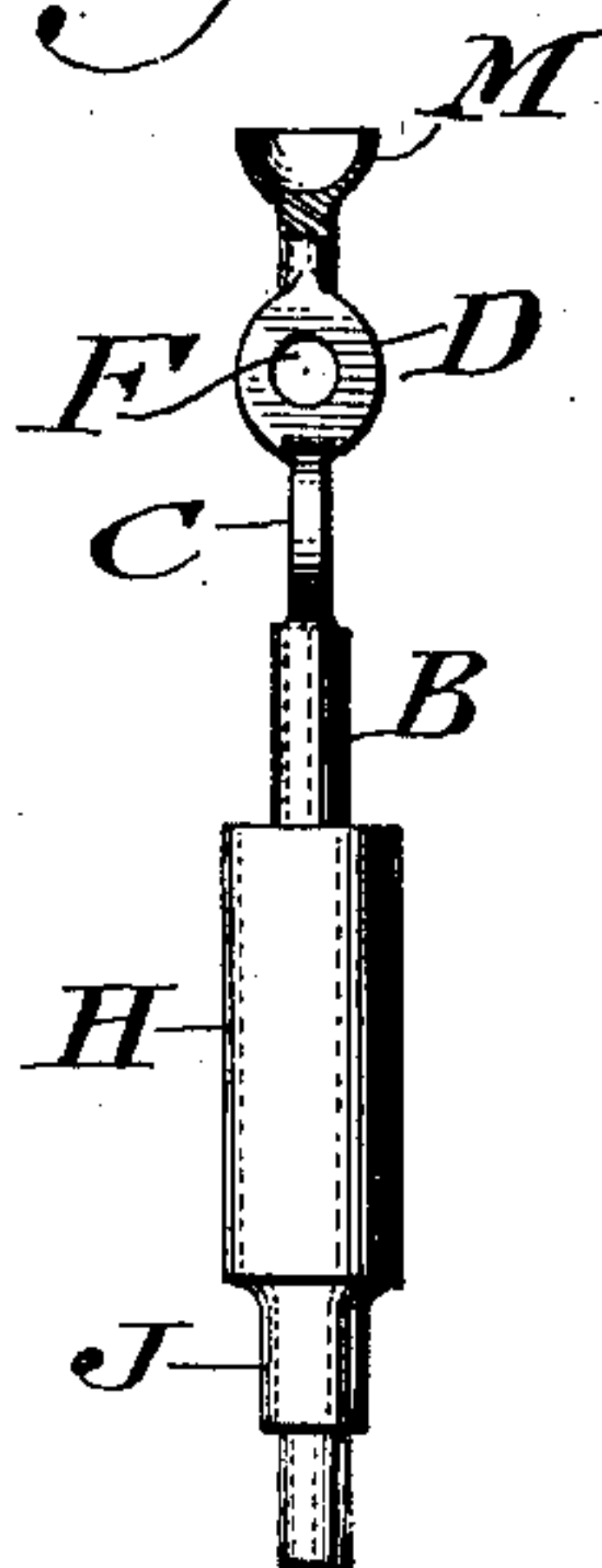


Fig. 4.



Witnesses

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DENTAL TOOL.

No. 826,818.

Specification of Letters Patent.

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Application filed December 14, 1905. Serial No. 291,692.

To all whom it may concern:

Be it known that I, JAMES HERMAN ABBOTT, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Dental Tool, of which the following is a specification.

My invention consists of a novel construction of dental tools, wherein I provide openings extending therethrough, a head above said openings, and a cap or sleeve movably mounted on said mandrel.

It further consists of novel details of construction, all as will be hereinafter fully set forth.

Figure 1 represents a perspective view of a dental tool embodying my invention. Figs. 2, 3, and 4 represent side elevations of a dental tool, showing a slightly-different form of head thereon. Fig. 5 represents a sectional view showing one form of attachment for the sleeve when in position. Fig. 6 represents an elevation showing another form of attachment.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a dental tool having a stem B and provided with the flattened portions C and D, extending at an angle to each other, through which are openings E and F. Above said flattened portions and openings is a head G, which in Fig. 1 is shown as of substantially the same form as the stem B.

H designates a sleeve mounted on said stem and adapted to sliding movement thereon, the lower portion of said sleeve being contracted, as at J, in order to closely engage the stem, while the upper portion of the said sleeve is made somewhat larger than the stem for purposes hereinafter designated.

In Fig. 2 I have shown the head K as pointed, while in Fig. 3 the head is shown as a flattened disk or cap L, and in Fig. 4 the head is shown as a cone-shaped cap M. The operation will be readily appreciated.

By placing the sleeve in the position seen in the figures it will be evident that felt, bristle, or other suitable material may be passed through the openings E and F in the

mandrel, after which the sleeve can be moved up on the stem and engaged with the fabric in order to hold the same in position on the mandrel for cleaning or otherwise treating the teeth, it being understood that by the construction shown the material, which, as before stated, can be of any desired or suitable material, can be quickly removed after use and replaced by fresh material, the operation of removing and inserting the material being quickly and easily accomplished while the same is held securely in place by the sleeve.

In the construction shown in Fig. 2 the material will be forced against the head K and will be brought to a point when the cap is forced against the same, while in Figs. 3 and 4 the material will extend at an angle depending on the angle of the heads L and M, since the material is brought in contact with the head by the said sleeve. In order to retain the sleeve H in its operative position, I may employ any suitable holding means, and in Fig. 5 I have shown one form where the interior of the contracted portion J is provided with screw-threads on its interior, and the upper end of the stem B of the mandrel is provided with screw-threads, so that when the sleeve H is pushed up on the mandrel the threads will engage and by rotating the same the said sleeve will be held in proper position.

In Fig. 6 I have shown a slot A, provided in the contracted portion J, said slot having an offset, and on the mandrel B, I place at a suitable point a pin L, which is adapted to enter the slot, and by turning the sleeve H the said pin is seated in the offset of the slot, so that the sleeve is held in proper position.

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

1. A dental tool consisting of a stem having openings extending therethrough at an angle to each other and a sleeve movable on said stem.

2. In a dental tool an apertured stem, a head thereon larger upon the side toward the aperture than the thickness of the stem and a sleeve movable on said stem.

3. In a dental tool, a stem, flattened portions therein at an angle to each other, openings in said flattened portions, a head above said flattened portions and a sleeve movable
5 on said stem.

4. In a dental tool, a flattened stem apertured in its flattened portion, a head in prox-

imity to said flattened portion, a sleeve mounted on said stem and means for holding said sleeve in proper position thereon. 10

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Witnesses:

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