

C. F. WURSTER.
 UMBRELLA RIB AND STRETCHER CONNECTION.
 APPLICATION FILED JULY 27, 1908.

907,434.

Patented Dec. 22, 1908.

Fig. 1.

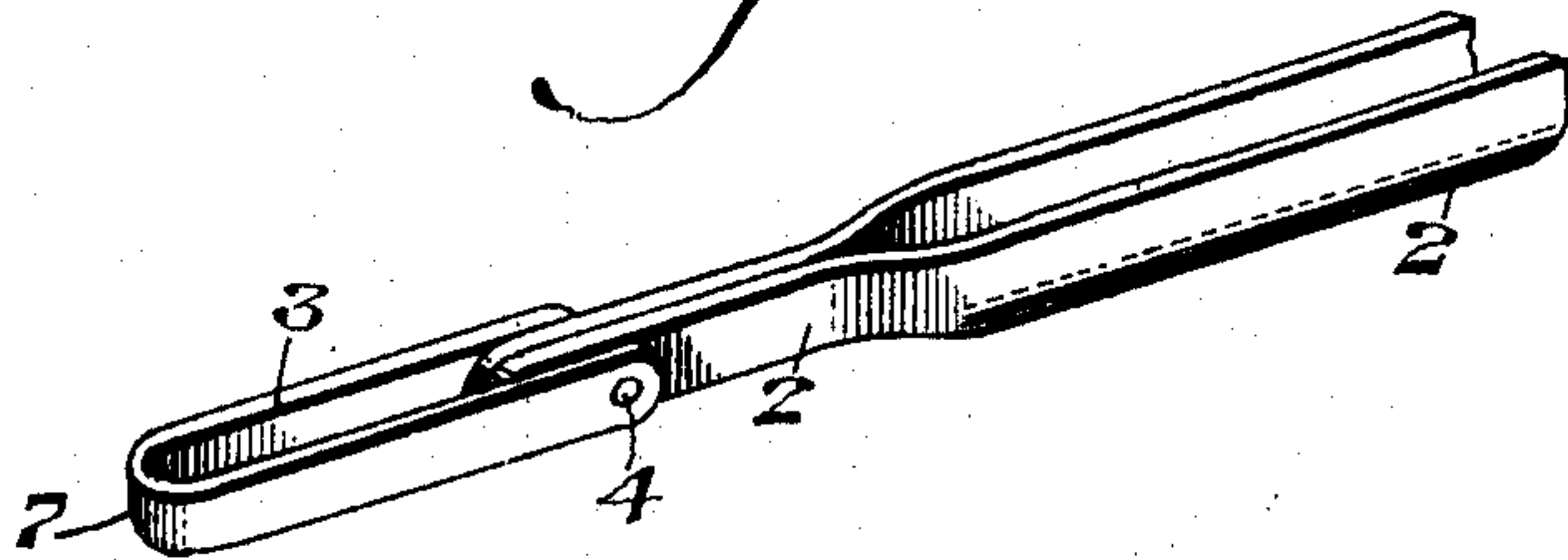


Fig. 2.

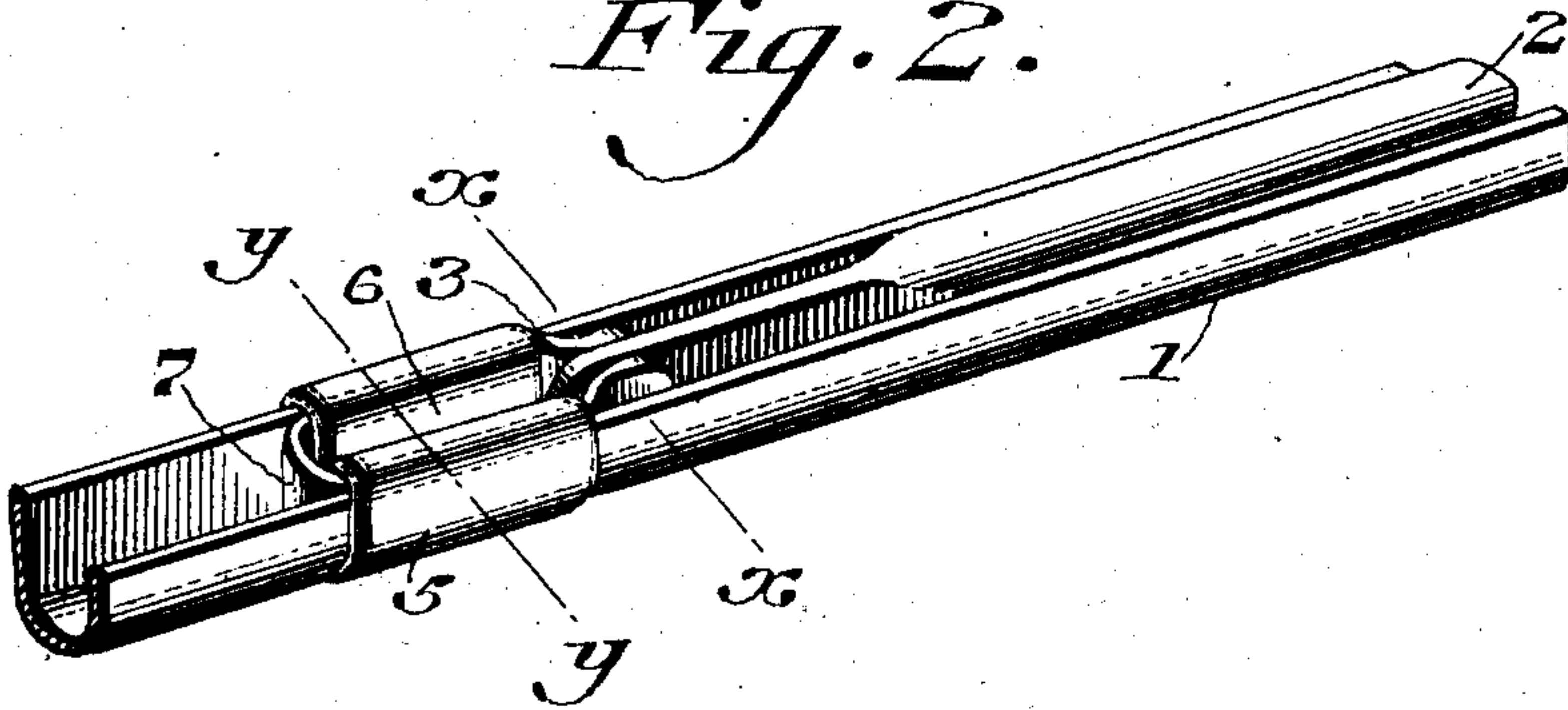


Fig. 3.

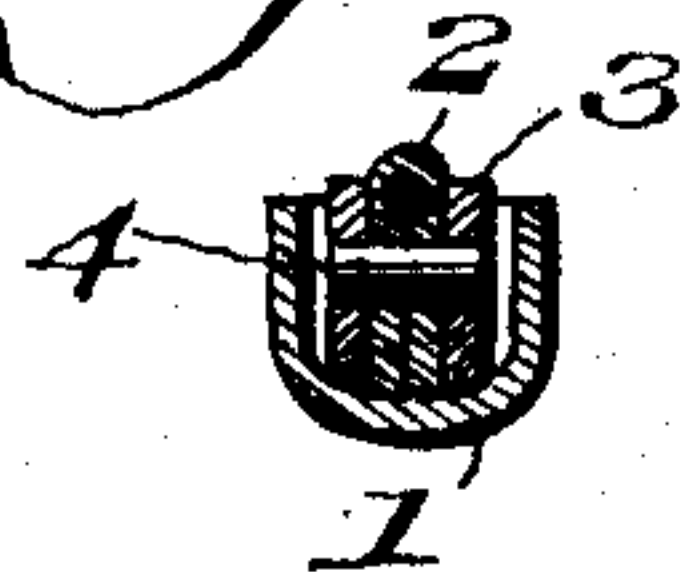


Fig. 4.

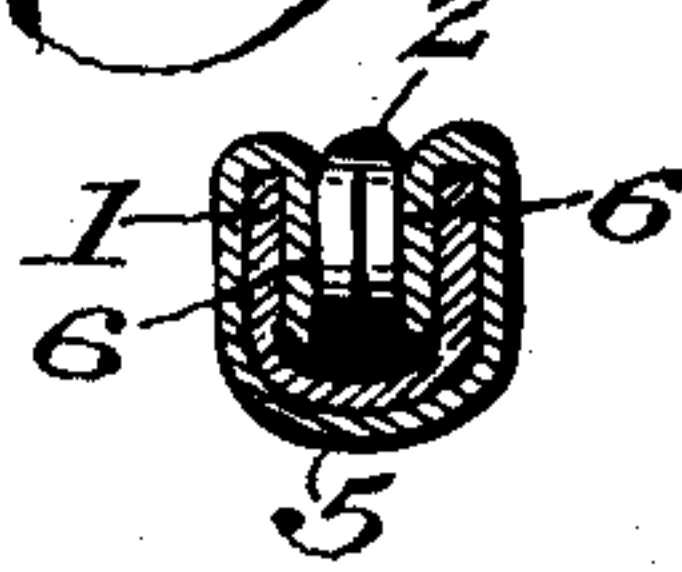
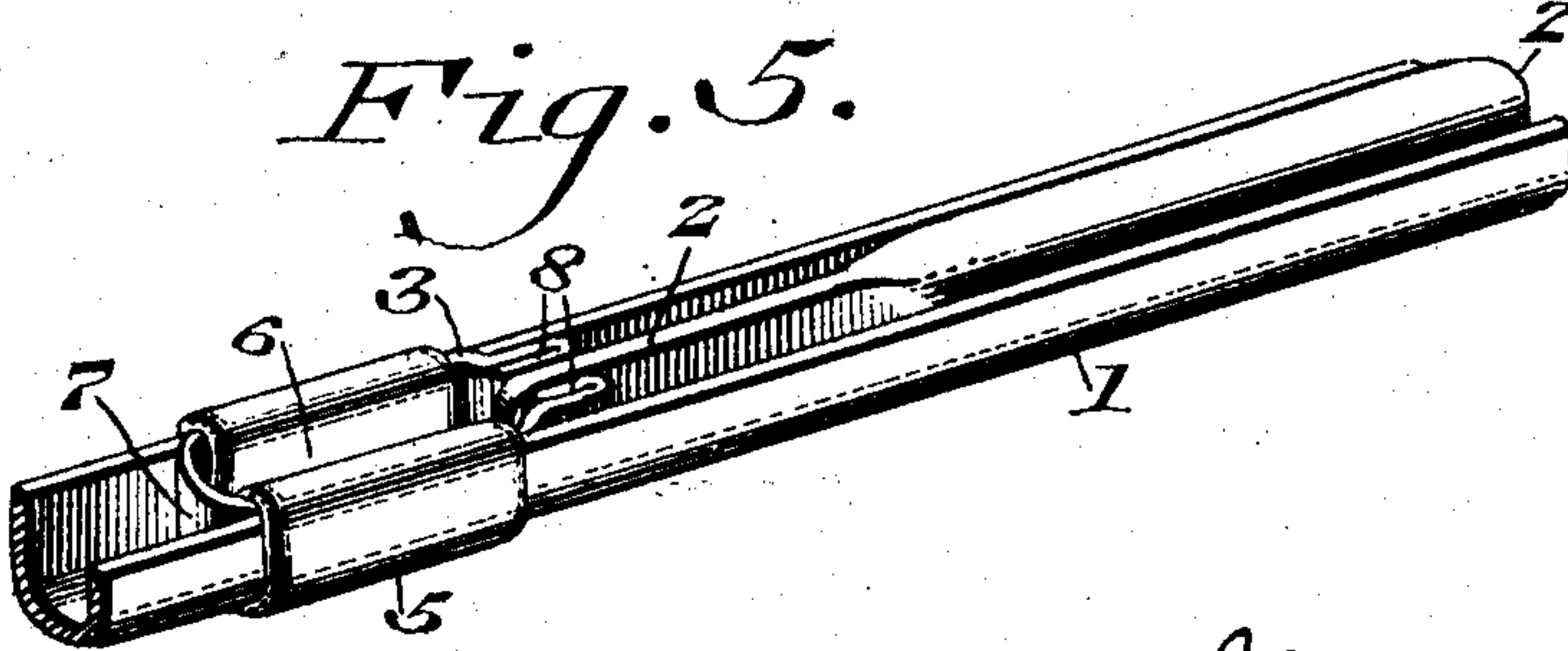


Fig. 5.



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UMBRELLA RIB AND STRETCHER CONNECTION.

No. 907,434.

Specification of Letters Patent.

Patented Dec. 22, 1908.

Application filed July 27, 1908. Serial No. 445,510.

To all whom it may concern:

Be it known that I, CHARLES F. WURSTER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Umbrella Rib and Stretcher Connection, of which the following is a specification.

My invention relates to a new and useful geat for umbrellas of umbrella rib and stretcher connection, and consists in providing a loop pivotally connected with the stretcher.

It further consists of a body and a loop, said body engaging the loop and securing the same to the rib.

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

Figure 1 represents a perspective portion of a stretcher with the loop pivotally attached thereto. Fig. 2 represents a perspective view, on an enlarged scale, a portion of a rib and stretcher showing parts in connected position. Fig. 3 represents a sectional view on line $x-x$ Fig. 2. Fig. 4 represents a sectional view on line $y-y$ Fig. 2. Fig. 5 represents a perspective view of a portion of a rib and stretcher showing the ends of the loop doubled.

I have found in practice in the umbrella rib and stretcher connection now in use and upon the market, owing to the construction of the same that they are liable to slip and it is difficult and expensive to connect the stretcher therewith. My invention is designed to overcome these defects, and in the drawing I have shown a form which I have found in practice to give satisfactory and reliable results, but it is to be understood that the arrangement of the parts may be varied and other instrumentalities may be employed which will come within the scope of the invention, and I do not therefore desire to be limited in every instance to the exact construction as herein shown and described, but desire to make such changes therein as may be necessary.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings:—1 designates a channeled rib of the usual construction, and 2 designates a stretcher which is adapted to be seated in or occupy the channel of the rib 1 when the umbrella is in closed position.

3 designates a loop the ends of which are pivotally connected with the stretcher, as will best be understood from Fig. 1, any suitable means for connecting the parts being employed and in the drawings I have shown a pin 4 for this purpose.

5 designates a geat or body formed of a plate or strip of metal which is adapted to be placed around the exterior of the rib and the edges 6 of which are inturned after the stretcher 2 and loop 3 are placed in position in the channel of the rib, it being understood that the said inturned edges engage with the sides of the loops and firmly hold the same, and with it the stretcher, with respect to the rib, it being also understood that the closed end 7 of the loop prevents disengagement of the parts since the same will contact with the inturned edges 6 as will be evident, while the pivoted ends of the loop will prevent longitudinal movement of the parts in the opposite directions, since the same are securely fastened to the stretcher. By this means it will be seen that I have formed an umbrella rib and stretcher connection which is simple in construction, efficient in operation and inexpensive in manufacture, as well as being so arranged as to be quickly and economically connected in position. The loop can be fastened to the stretcher 2 placed in position in the rib after which the body 5 is passed around the rib and the inturned edges 6 caused to engage with the loop as before explained.

In Fig. 5 I have shown a construction which may be employed if desired in which the ends of the loop 3 are doubled or bent as at 8 and through which the pin 4 passes, thus forming an additional strengthening means for the connection of the loop 3 with the stretcher 2, and in addition serving as a guide for directing the proper movement of the stretcher.

From the above description and from the drawing it will be understood that by my construction I am enabled to construct a rib and stretcher connection, whereby a close folding umbrella results, which provides a smooth joint which does not wear out the cover and so that the umbrella can be rolled up to the smallest diameter, attention being also called to the fact that the rib is not pierced or weakened in any way and yet the umbrella folded as small as possible.

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

1. A stretcher having a loop pivotally attached thereto constituting a hinged extension therefor.

2. In an umbrella rib and stretcher connection, a body and a loop engaged by said body, said loop being pivotally connected with a stretcher constituting a hinged extension therefor.

3. In an umbrella rib and stretcher connection, a body, a loop engaged by said body, a stretcher and a channeled rib around the exterior of which said body is placed and in the interior of which said loop is contained.

4. In an umbrella rib and stretcher connection, a body and a loop engaged by a portion of said body, a stretcher to which the loop is pivoted and a channeled rib with which said body is connected with said loop occupying the channel of said rib.

5. In an umbrella rib and stretcher connection, a channeled rib, a stretcher, a body and a loop engaged by said body and extending longitudinally of said body.

6. In an umbrella geat, a channeled rib, a stretcher and a longitudinally engaging loop therefor lying within the channeled rib, and a body upon said rib and inturned upon said loop.

7. In an umbrella geat, a body having inturned edges, a stretcher, a loop pivotally attached to said stretcher constituting a hinged extension therefor engaged by said inturned edges, and a channeled rib with which said body is connected and having said loop and inturned edges occupying the channel thereof.

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