

(No Model.)

H. GOCHNAUER.  
UMBRELLA SHEATH.

No. 567,827.

Patented Sept. 15, 1896.

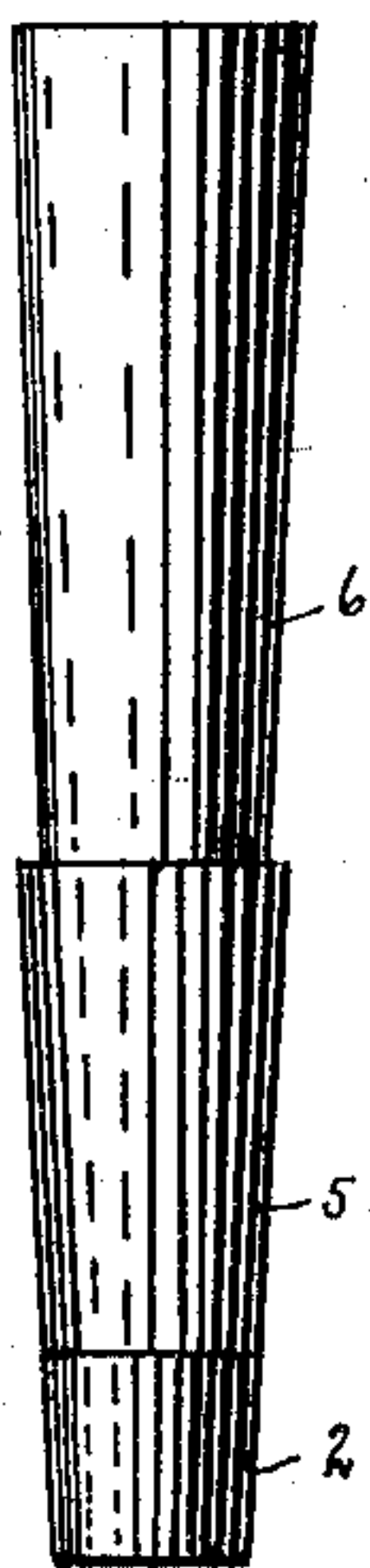


Fig. 1

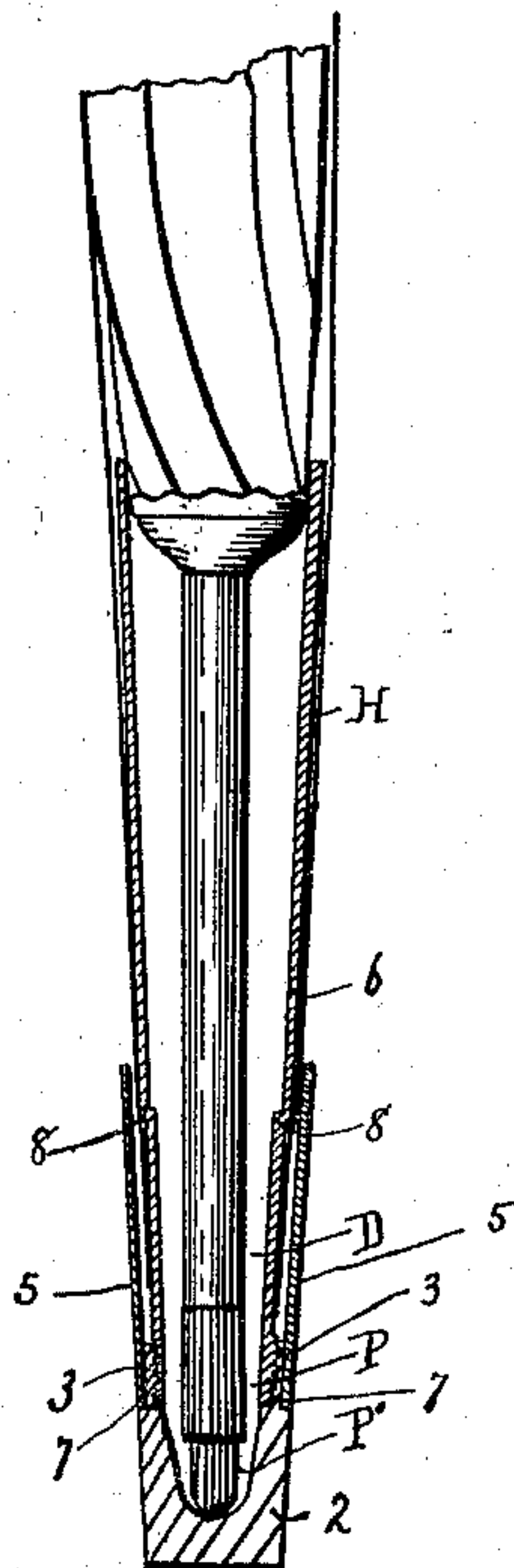


Fig. 2.

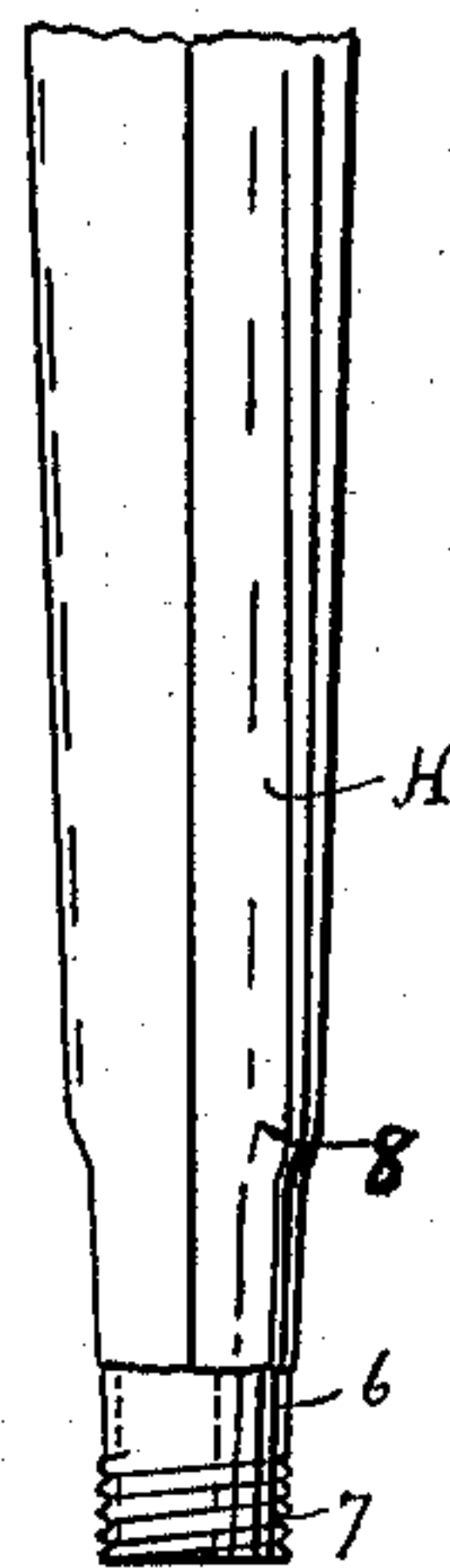


Fig. 3.

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per his atty.  
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# UNITED STATES PATENT OFFICE.

HARRY GOCHNAUER, OF LANCASTER, PENNSYLVANIA, ASSIGNOR TO  
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## UMBRELLA-SHEATH.

SPECIFICATION forming part of Letters Patent No. 567,827, dated September 15, 1896.

Application filed May 6, 1896. Serial No. 590,503. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY GOCHNAUER, a citizen of the United States, and a resident of the city and county of Lancaster, and State of Pennsylvania, have invented a new and useful Improvement in Umbrella-Sheaths, of which the following is a clear and sufficient specification, reference being had to the drawings annexed.

My invention has reference to that class of sheaths that cover the umbrella completely from the handle down, including all of the stick and its ferrule and plug, and which are expanded between the top notch of the umbrella and the end of the umbrella-plug to a much greater diameter than the stick ordinarily has between these points.

It has for its object, chiefly, keeping the "sheath-expander," which is the name by which is usually designated any device by which the sheath is distended, away from the stick, while still furnishing a firm support for the sheath, and making a very simple, firm, and elegant means of fastening the sheath and sheath-ferrule together and avoiding the separation that frequently occurs between the sheath and sheath-ferrule in several forms of devices heretofore in use.

My invented device is used with an umbrella-stick in the usual form without any change from the normal and regular construction.

My invention consists, essentially, of a shell that forms the sheath-expander, the upper part of which forms a tapering drum, fitting at its top over the top-notch ribs and cover of the umbrella, the lower part of which forms another tapering drum of slightly less diameter, which is joined to the upper drum with the formation of a shoulder between the drums, in conjunction with a ferrule structure consisting of a plug provided with an interior chamber of tapering bore, the bottom of which forms a seat for the umbrella-plug and into the top of which the shell is screwed, and a ferrule around the plug, the sheath being stretched over both drums and pressed closely against the upper drum by the above-mentioned ferrule. It is seen that the entire structure of expander and ferrule is seated on the umbrella at two points only, as the

shell is made of sufficient diameter to clear the stick at all points.

Figure 1 is a side elevation of the expander and sheath-ferrule with the sheath removed. Fig. 2 is a longitudinal section of the sheath-expander and sheath-ferrule surrounding an umbrella, and Fig. 3 is a side elevation of a sheath-expanding portion of the device removed from the ferrule part.

2 is a plug provided with a chamber tapering toward its bottom. Into this chamber the plug of the umbrella-stick fits, and at the wide top of the chamber is the screw-thread 3, into which the shell 6 screws.

The sheath-expander is formed of an upper drum of thin metallic material, the upper end of which is of substantially the same diameter as the folded umbrella. This drum tapers inward slightly toward its lower end. Below this drum is placed a similar drum, also of the same material, the upper end of which is less in diameter than the lower end of the first-named drum, which also tapers inward toward its lower end. These two drums are connected together with the formation of the shoulder 8. These drums are formed by a shell 6, of sheet metal, which fits at the top over the ribs and cover of the umbrella at the top notch. The screw-thread 7 at the bottom of the shell 6 screws into engagement with the thread 3 in the plug 2. Over the shell 6 is stretched the sheath H, which is sewed close around the smaller drum, and the taper of the drums and shoulder 8 keep it from being pulled off upward. Around the plug 2 is secured the ferrule 5, which allows the smaller drum with the portion of the sheath surrounding it to pass down freely into its interior, but is small enough to compress the sheath upon the upper drum. This connection between the ferrule 5 and the shell 6 being separated from the screwed connection between the shell 6 and the plug 2 gives considerable rigidity to the structure. All portions of the drums are large enough in the diameter of their bores to avoid the stick completely, and the entire structure forming the sheath-expander and sheath-ferrule rests solely upon the umbrella-stick plug and the cover of the umbrella at the top notch. This prevents the stick from being rubbed or scratched or



being otherwise marred by the sheath or its parts.

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

5 The combination of two tapering drums of a thin metallic material, the one drum being of less diameter at all parts than the other, the larger end of the smaller drum being  
10 united to the smaller end of the larger drum with the formation of a shoulder sloping from said larger inward to said smaller drum, a sheath of flexible material sewed closely around both of said drums, a plug having a  
15 chamber in the upper part thereof tapering to a smaller diameter at the bottom than at the top, and having a screw-thread cut in the walls of said chamber near the top of the

plug, into which is screwed the screw-thread on the smaller drum, a ferrule secured to said 20 plug and extending high enough to cover the lower drum and the shoulder and the small portion of the upper, and of small enough diameter to compress the sheath upon the upper drum, the said upper drum being seated 25 at the top, on the cover of the umbrella at the top notch and both of the drums having their bores of sufficient diameter to clear the umbrella-stick at all points substantially as described. 30

In witness whereof I have hereunto set my hand the 2d day of May, 1896.

HARRY GOCHNAUER.

Witnesses:

J. AYLMER MAXWELL,  
WILLIAM H. KELLER.