(No Model.)

H. W. AVERY.

CORD HOOK.

No. 415,235. Patented Nov. 19, 1889.

Fig 1.

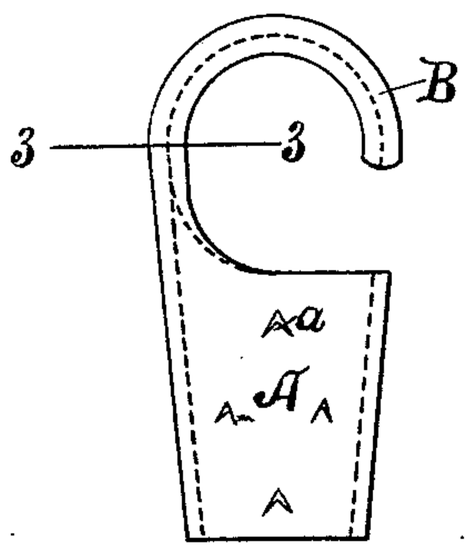


Fig 2.

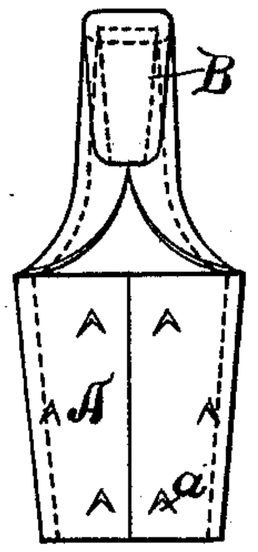
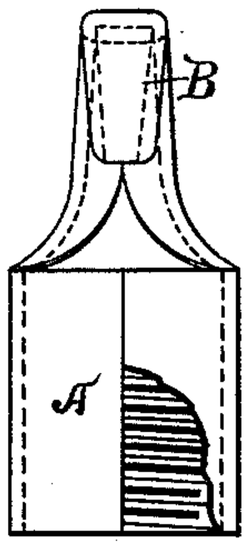


Fig.

Fig 4.



3 a.

3 b.

3 c.

WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY W. AVERY, OF CLEVELAND, OHIO.

CORD-HOOK.

SPECIFICATION forming part of Letters Patent No. 415,235, dated November 19, 1889.

Application filed April 22, 1889. Serial No. 308,076. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. AVERY, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Cord-Hooks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a cord-hook embodying my invention in its best form. Fig. 2 is a front elevation thereof. Figs. 3^a, 3^b, and 3^c are transverse sectional views at the point indicated by line 3 3 in Fig. 1, showing several forms in which the tongue B may be bent; and Fig. 4 is a side elevation of a modified form of said cord-hook.

The object of my invention is to make a cord-hook which shall be cheaper, lighter, and more durable than cast-metal cord-hooks such as are now used.

To this end it consists of a cord-hook made of sheet metal and having the following integral parts, viz: a tubular socket and a tongue which is bent longitudinally to strengthen it and bent transversely into a hook form.

It also consists in certain specific details of construction herein shown and described, all of which will be definitely pointed out in the claims.

Referring to the parts by letter, A represents a tubular cord-socket, which may and generally will be made in the form of a tapering thimble. It may also be cylindrical in form, in which case it will generally be provided with an interior screw-thread, as shown in Fig. 4. B represents a tongue integral therewith.

The socket A may be formed without seam or joint by drawing the metal down between suitable dies, or it may be formed by bending a suitably-shaped blank of sheet metal upon a mandrel until the edges thereof meet, and then uniting said edges by brazing, welding, (electrically or otherwise,) or any other suitable means. The tongue B is folded longitudinally, for the purpose of strengthening it, in some such form as is illustrated in Figs. 3^a, 3^b, and 3^c, the precise form being a matter of preference only. The tongue B is then curved transversely into a hook form, substantially as shown.

a a represent inwardly-projecting pointed tongues, which are stamped from the metal forming the socket A, which in this case will be made in the form of a tapering thimble. These tongues point inward and engage with the cord which passes through the thimble and prevents the hook from being pulled off the cord.

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

1. A sheet-metal cord-hook having the following integral parts, viz: a tubular socket and a tongue which is folded longitudinally for the purpose of strengthening it, and which is bent transversely into hook form, substantially as and for the purpose specified.

2. A sheet-metal cord-hook having a tapering thimble provided with the lips *a*, bent inward, and a tongue B, integral with the thimble, bent longitudinally to strengthen it, and bent transversely into hook form, substantially as and for the purpose specified.

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