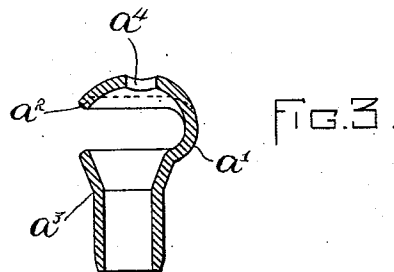
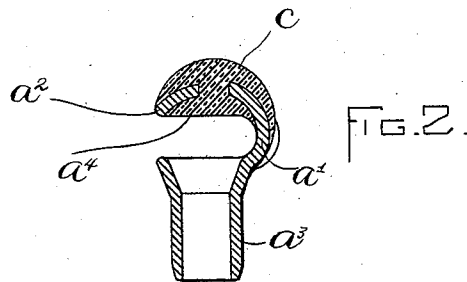
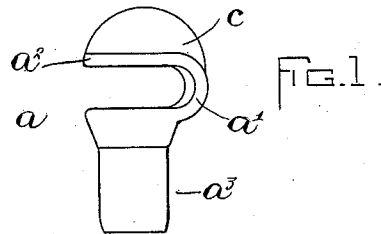


(No Model.)

E. KEMPSHALL.
LACING STUD.

No. 569,968.

Patented Oct. 20, 1896.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ELEAZER KEMPSHALL, OF SHARON, MASSACHUSETTS, ASSIGNOR TO
THEOPHILUS KING, TRUSTEE, OF BOSTON, MASSACHUSETTS.

LACING-STUD.

SPECIFICATION forming part of Letters Patent No. 569,968, dated October 20, 1896.

Application filed May 8, 1895. Serial No. 548,571. (No model.)

To all whom it may concern:

Be it known that I, ELEAZER KEMPSHALL, of Sharon, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Lacing-Studs, of which the following is a specification.

This invention relates to a new and improved lacing-stud; and it consists in the novel features of construction and relative arrangement of parts hereinafter fully described in the specification, clearly illustrated in the drawings, and particularly pointed out in the claims.

Reference is to be had to the accompanying sheet of drawings, forming a part of this application, in which like characters indicate like parts wherever they occur.

In the drawings, Figure 1 represents a side elevation of the improved lacing-stud. Fig. 2 is a vertical sectional view thereof. Fig. 3 is a detail view of the vertical section, showing the stud or hook before the covering is applied.

The object of my invention is to provide a sheet-metal lacing stud or hook having its head practically covered with composition, so far as the external appearance of the stud is concerned, which provides a metal wearing-surface around the edge of the head.

A further object of my invention is to provide a construction whereby the under side of the composition-covered head is protected by the margin of the metal portion of the head and is left flat, so as to offer no obstruction on the insertion or removal of the lacing.

To these ends the invention may be said to consist of a sheet-metal lacing stud or hook having a dome-shaped perforated head portion and a recessed under side and an inner and outer covering of composition connected together through said perforation and anchored on the depressed under side.

While the invention may be carried out in various ways, I prefer for simplicity of construction, durability, and cheapness of manufacture the construction shown in the drawings, in which a represents the metal portion of the stud or hook, formed in the usual way, of sheet metal to constitute a neck a' , the head or top portion a^2 , and any suitable an-

choring means, as the tubular extension a^3 . Heretofore when such studs have been made to be covered with composition the head a^2 has been flat, thus causing the composition on the under side of the head to bulge below the head and present a convex surface, which is an obstruction to the free passage of the lacing-cord. In the improved way, already shown, the head a^2 is formed dome-shaped, with one or more perforations a^4 . This enables the composition c , which is applied to the head in the usual way, to anchor on the depressed under surface and to be flat on its under surface or level with the edge of said head, the composition above and below the dome-shaped head being connected through the perforations and thereby held in place. This construction presents a metal surface—to wit, the edge of the head a^2 , to the wearing action of the lacing-cord when inserting or removing the latter and prevents the liability of the breaking away of the composition by said cord. Furthermore, as above stated, on the under side of the head or hook there is no convex obstruction for the free passage of the lacing-cord, the under surface of the composition c being flat. Said under surface is, moreover, surrounded and protected by the margin of the metal head a^2 .

I do not confine myself to the construction and arrangement herein shown, and may apply my improvement to a stud or hook having a tubular eyelet.

Having thus explained the nature of my invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, what I claim, and desire to secure by Letters Patent, is—

1. A lacing stud or hook comprising a dome-shaped, perforated metal head, having a recessed or concave under side, and a coating of composition covering the convex upper side of the head, extending through the perforation in the head, and anchored in the concave under side of the head, the said coating having a flat under surface which is surrounded and protected by the margin of the head, substantially as and for the purpose set forth.

2. A lacing-hook comprising a dome-shaped perforated metal head, having a recessed or concave under side and a coating of composition covering the convex upper side of the
5 head extending through the perforation in the head, and anchored in the concave under side of the head.

In testimony whereof I have signed my

name to this specification, in the presence of two subscribing witnesses, this 4th day of 10 May, A. D. 1895.

ELEAZER KEMPSHALL.

Witnesses:

A. D. HARRISON,
ROLLIN ABELL.