

(No Model.)

W. C. BRAY.  
LACING HOOK.

No. 477,242.

Patented June 21, 1892.

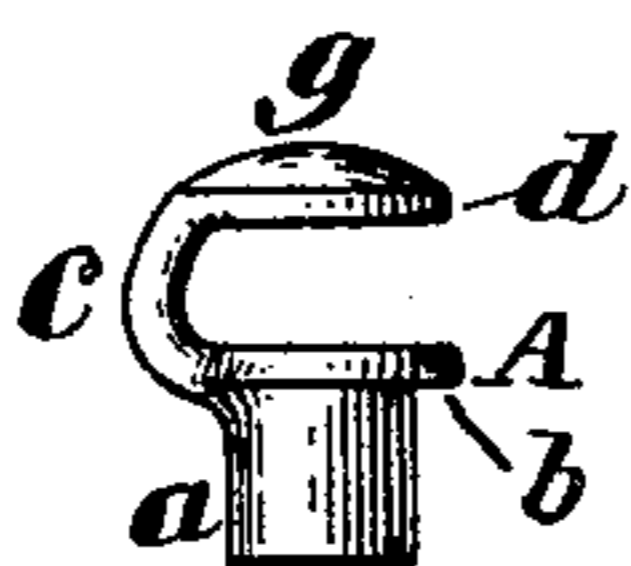


Fig. 1.

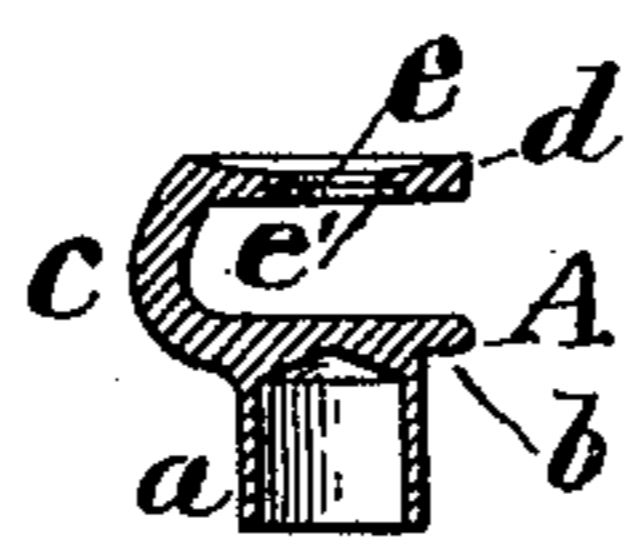


Fig. 2.



Fig. 3.



Fig. 4.



Fig. 5.



Fig. 6.



Fig. 7.

WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM C. BRAY, OF NEWTON CENTRE, MASSACHUSETTS.

## LACING-HOOK.

SPECIFICATION forming part of Letters Patent No. 477,242, dated June 21, 1892.

Application filed May 5, 1892. Serial No. 431,897. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM CLAXTON BRAY, of Newton Centre, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Lacing-Hooks, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to lacing studs or hooks, and has for its object the production of a lacing stud or hook that will not become bright or change its color by wear; and it consists in certain novel features of construction, arrangement, and combination of parts, which will be readily understood by reference to the description of the drawings and to the claims hereinafter contained and in which my invention is clearly pointed out.

Figure 1 of the drawings is a side elevation of a lacing-hook embodying my invention. Fig. 2 is a central vertical section of the main body of the hook as it appears before the finishing-cap is attached thereto. Fig. 3 is a central vertical section of a hollow shank for the finishing-cap. Fig. 4 is a central vertical section of the finishing-cap complete before being applied to the hook. Fig. 5 is a central section of the finished hook. Fig. 6 is a central section of a modified form of shank for the finishing-cap, and Fig. 7 is a similar section of the finishing-cap provided with said modified form of shank.

In the drawings, A is the main body of the hook, having a tubular shank *a*, the inner head or flange *b*, the curved neck *c*, arranged eccentric to the shank *a*, and the outer head *d*, the outer face of which is slightly concaved and is provided with the central opening or perforation *e* and the annular rabbet *e'* in the inner face of said head and surrounding said perforation *e*, as shown in Fig. 2. An eyelet or a countersunk ended rivet *f* has its flanged end embedded in and surrounded by the finishing-cap *g*, made, preferably, of pyroxyline, papier-maché, or any other suitable material capable of being colored throughout to any desired shade and to be molded to the desired shape while in a plastic and then become hard and tough.

The pyroxyline or other material is placed around the flanged end of the eyelet or rivet

and is then pressed to the desired shape in suitable dies formed to give said cap a crowned or convex outer surface, with its inner surface shaped to fit the concaved outer surface of the outer metal head of the hook. The cap *g* is placed in position on the metal head of the hook A, with the shank of the eyelet or rivet *f* in the opening *e*, and then the inner end of the eyelet or rivet is turned outward into the rabbet *e'*, so as to firmly secure said cap in position on the head *d*, as shown in Fig. 5.

The material of which the cap *g* is composed is colored throughout to the desired shade, which for most work is preferably black; but in all cases of the same color as the japanning on the metal portion of the hook, so that when subjected to hard service the head will not change color or become bright.

The hook may have a tubular shank, as shown; or it may be provided with a plurality of prongs for securing it to the material upon which it is to be used without departing from the principles of my invention, as the form of shank or the means of securing the hook to the material forms no part of my present invention.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A lacing-hook having an inner head or flange to bear upon the material, suitable means for securing said hook to the material, a cord-receiving neck arranged eccentric to said inner head, and an outer head composed of a perforated metal disk, and a cap of pyroxyline or other colorable material adapted to be molded to the desired shape while in a plastic state and then become hard and tough, and a flanged metal shank for securing said cap to said perforated disk, the flanged end of which metal shank is embedded in and surrounded by said molded material and the opposite end of which is clinched upon the inner surface of said perforated head.

2. A lacing-hook having an inner head or flange to bear upon the material in which it is to be set, suitable means for securing said hook to the material, a cord-receiving neck arranged eccentric to said inner head, and an outer head composed of a perforated metal

disk integral with said neck and inner head  
and provided with an annular rabbet in its  
inner face, and a finishing-cap of pyroxyline  
or other colorable material capable of being  
5 molded to the desired shape while in a plas-  
tic state and then become hard and tough,  
and a flanged metal shank for securing said  
cap to said perforated disk, the flanged end  
of which metal shank is embedded in and  
10 surrounded by said molded material and the

opposite end of which is clinched into said  
annular rabbet, as set forth.

In testimony whereof I have signed my  
name to this specification, in the presence of  
two subscribing witnesses, on this 3d day of 15  
May, A. D. 1892.

WILLIAM C. BRAY.

Witnesses:

N. C. LOMBARD,

A. D. SIMPSON.