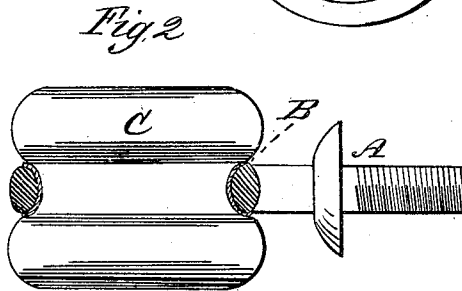
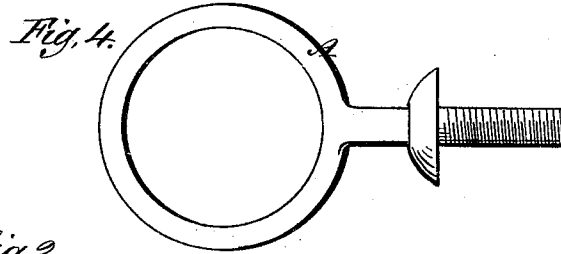
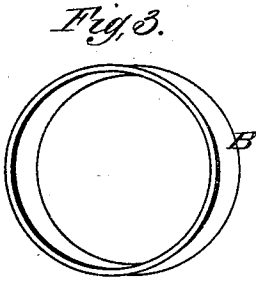
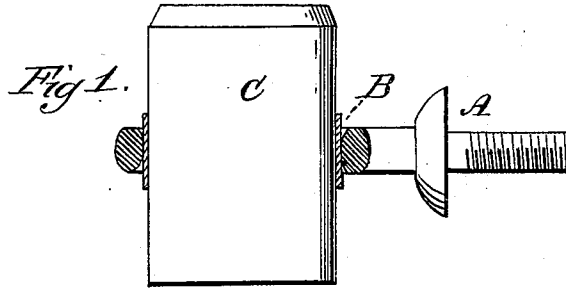


J. P. Hisley

Lining Rings and Buckles.

N^o 96,916.

Patented Nov. 16, 1869.



Witnesses.

Wm. J. Dodge
J. A. Mosley

Inventor.

John P. Hisley.

United States Patent Office.

JOHN P. HISLEY, OF SYRACUSE, NEW YORK, ASSIGNOR TO HIMSELF
AND HENRY L. DUQUID, OF SAME PLACE.

Letters Patent No. 96,916, dated November 16, 1869.

IMPROVED METHOD OF LINING RINGS, BUCKLES, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JOHN P. HISLEY, of Syracuse, in the county of Onondaga, and State of New York, have invented a new and useful Improvement in Lining Harness-Turrets, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 shows a sectional view of the turret and lining, on the elastic core, and in position for receiving the swaging blow, and

Figure 2 is a like view, showing the position of the core when the swaging blow has been delivered.

Figures 3 and 4 are detail views.

Similar letters of reference indicate like parts in the several figures.

This invention relates to a certain improvement for swaging-in the metallic lining of harness-turrets, bit-rings, buckles, &c., whereby an important saving in labor is made; and

The invention consists in inserting an elastic core within the lining, and then applying pressure to the said core, by which the core is compressed, and the lining quickly and neatly swaged to the form of the turret, or other article, by the bulging of the said elastic core, as hereinafter more fully explained.

In the accompanying drawings—

A is a harness-turret,

B is the lining, and

C is the elastic swaging-core.

The ring B is placed in the eye of the turret, and both are then slipped on to the rubber core C, as shown in fig. 1.

Pressure is then applied to the ends of the core C, and the lining B is instantly swaged on to the eye of the turret, as shown in fig. 2.

The swaging-pressure is obtained by placing the core upon a suitable rest, and letting a drop fall upon it, and this compresses the core so that its bulging sides crowd the lining to the proper form. However, the core can be compressed by a screw-press, or by other suitable means.

I also swage linings into bit-rings, buckles, &c., by the same means.

By this method, one man can swage the lining into twelve dozen turrets in one hour, while, by the usual method of hand-labor, one man will line but four dozen turrets per day, thus making a highly important saving of labor by my improved method, as herein described.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The method, herein described, of fitting and swaging linings upon the interior surfaces of rings, buckles, and like objects.

The above specification of my invention signed by me, this 1st day of September, 1869.

JOHN P. HISLEY.

Witnesses:

WM. J. DODGE,

F. A. MORLEY.