

O.B. North's *Impt* in BREAST STRAP SLIDE.
 Assignor to O.B. NORTH & CO.

PATENTED
 DEC 10 1867

71901

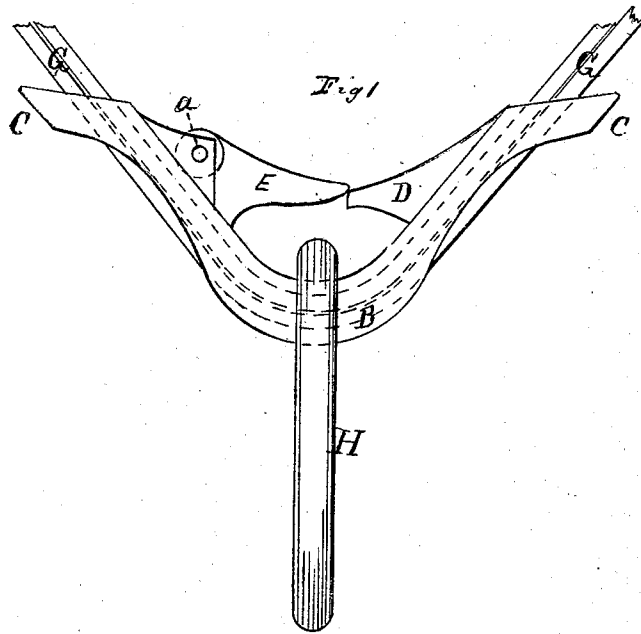


Fig. 2

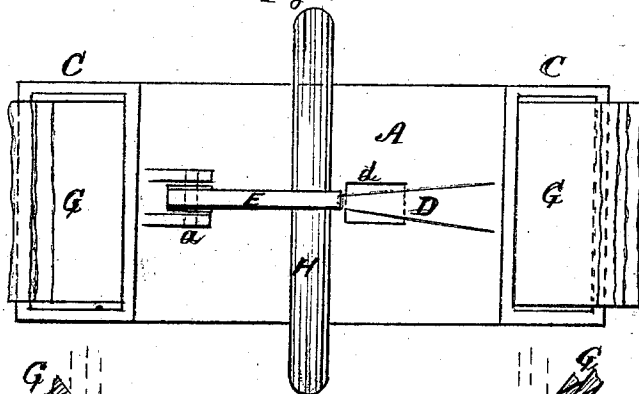
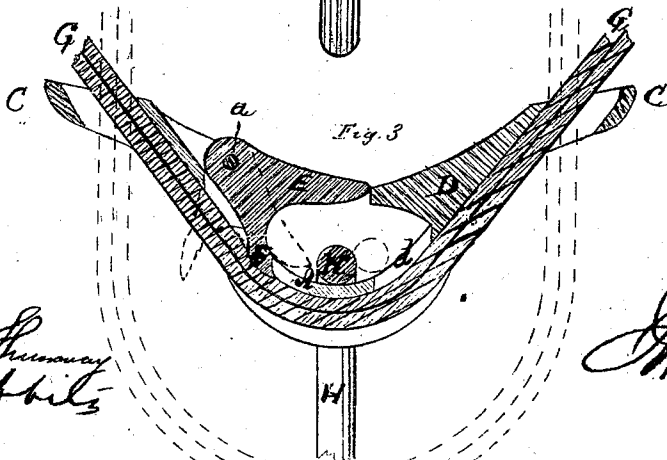


Fig. 3



O. B. North
 Inventor
 By his Attorney,

J. E. Earle

Witnesses,

John H. Sherman
A. J. Dubois

United States Patent Office.

O. B. NORTH, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO O. B. NORTH
& CO., OF SAME PLACE.

Letters Patent No. 71,901, dated December 10, 1867.

IMPROVED BREAST-STRAP SLIDE.

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, O. B. NORTH, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Breast-Strap Slides; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, an edge view,
Figure 2 a top view, and in
Figure 3 a central section.

This invention is designed for the protection of the breast-strap in harnesses, and consists in the arrangement of a hinged tongue upon the concave side of the plate, so as to prevent the removal of the ring from the plate; also, the manner of forming the hook upon the plate.

To enable others to understand my improvement, I will describe the same, as illustrated in the accompanying drawings.

A is a concavo-convex plate, its edge turned over so as to form a flange, B, for the protection of the strap G, and its two ends constructed so as to form loops C C, through which the strap passes. Thus far the plate is of common and well-known construction. Upon one side of the plate I form a fixed projection, D, and upon the opposite side, upon a pivot, *a*, I hinge a tongue, E, its tail end, F, projecting through the plate, as seen in fig. 3, so that when the strap is not bearing against the plate the tongue will naturally fall to the position in red, but when the strap is drawn hard up against the plate, then the tongue will be held up in the position in figs. 1 and 3, the tongue extending across and corresponding to a projection, D, on the opposite side of the plate, and thus, when up, covers the ring H, and prevents its removal from its proper projection. To place the ring in position, loose the strap, as denoted in red, fig. 3; the tongue drops, and the ring is placed in position; then the strap drawn up, raises the tongue and covers the ring. I prefer to construct the tongue with the tail-piece E, so that the strap will hold up the tongue, as described, yet a spring placed beneath the tongue will accomplish the same object of supporting the tongue, but is more liable to get out of repair than the use of the tail-piece F. Breast-slides have before been constructed with two fixed projections, similar to the projection D, and in their manufacture the space between the projections and the plate has been formed by placing a core therein, a somewhat expensive process. To avoid this I form an opening, *d*, through the plate below the hook, so that the sand, in moulding, will pass therethrough, and form its own core beneath the hook. By this process much expense is saved in the manufacture of this or other plates with similar projections.

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

1. The arrangement of the hinged tongue E upon the plate A, so as to cover the ring, substantially in the manner herein set forth.

2. Constructing the hook or projection D upon the inside of the plate, by forming an opening, *d*, through the plate, substantially as and for the purpose herein set forth.

O. B. NORTH.

Witnesses:

JOHN H. SHUMWAY,
A. J. TIBBITS.