L. HILL.

Corset-Steel Fastening.

No. 225,375. Patented Mar. 9, 1880.

Fig: 1.

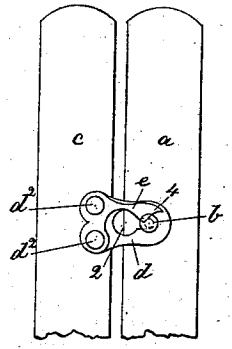


Fig: 2.

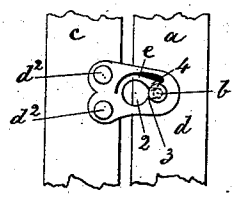


Fig: 3.

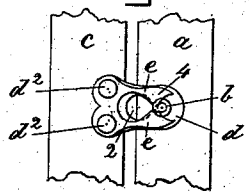


Fig: 4.

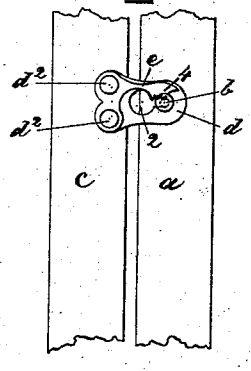


Fig: 5. Fig: 6.

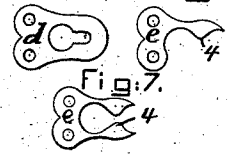


Fig: 7.

Witnesses.

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Jos. P. Livermore

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UNITED STATES PATENT OFFICE.

LUCIAN HILL, OF NORTH BROOKFIELD, ASSIGNOR TO THEODORE C. BATES AND DAVID H. FANNING, OF WORCESTER, MASSACHUSETTS.

CORSET-STEEL FASTENING.

SPECIFICATION forming part of Letters Patent No. 225,375, dated March 9, 1880.

Application filed December 20, 1879.

To all whom it may concern:

Be it known that I, LUCIAN HILL, of North Brookfield, county of Worcester, State of Massachusetts, have invented an Improvement in Corset-Steel Fastenings, of which the following description, in connection with the accompanying drawings, is a specification.

This invention relates to fastenings for corset-steels, and is an improvement in the class of fastenings shown in patent to Hill, dated December 9, 1879.

In this invention I combine with the usual fastening eye-plate commonly applied to one of the steels a sheet-metal hook adapted to be struck by the usual stud connected with the other steel as the two steels at the front of the corset joined by the eye-plate and stud move slightly apart. This sheet-metal hook has a nose, which, when it is struck by the stud in its outward movement, causes the hook to yield laterally to the direction of movement of the stud, and as soon as the stud passes the said nose the hook moves back to its normal position and checks the backward movement of the stud into the large part of the eye-plate until the stress of the hook is again overcome.

In the patent referred to the fastening was made of wire; but in this my invention the fastening device is made of thin sheet metal, and an extra rivet by which to attach the fastening device to the steel is not needed.

My invention consists in the combination, with a fastening eye piece or plate, of a sheet-metal hook having a nose adapted to extend into or across the path of movement of the stud which enters the eye-piece, the said hook yielding laterally to the length of the eye in the eye-plate to permit the passage of the stud, and preventing its return until the stress of the hook is again overcome by forcing the stud backward past it.

The sheet-metal fastening may be made stiffer than the wire fastening, and may be struck out by a die at very small cost.

Figure 1 represents, in front view, a portion of the two steels, with the usual hook and eye-plate, my improved fastening being applied thereto; Fig. 2, a modified form, in which the fastening or hook part is made as an integral part of the eye-plate; Fig. 3, a modification, showing a fastening with two hooks; Fig. 4, a modification in which the hook has several nose-like projections instead of one; and Figs. 5, 6, and 7 are details of the eye-plate and sheet-metal fastening separate from the steels.

The steel *a* and stud *b* and steel *c* may be of any usual kind.

The eye-plate *d*, attached to the steel *c* by the usual two rivets d^2 d^2, has an eye part, 2, to receive the head of the stud *b*, and leading from the said eye 2 toward the outer end of the eye-plate is a slot, 3, along which the shank of the stud *b* traverses after the same has been inserted through the eye 2.

To prevent the unhooking of the eye-plate from the stud, except by considerable force, and thereby to prevent accidental unhooking, is the aim of my invention. This I accomplish by combining with the said eye-plate a sheet-metal fastening, *e*, shown as a hook having a nose, 4, the said nose being properly beveled, and in its normal condition standing across the slot 3, or forming an impediment therein, against which the shank of the stud strikes when being moved to the end of the slot most remote from that steel to which the said eye-plate is attached, the stud occupying a position at that end of the said slot when the corset is fastened and distended.

The stud in its outward movement strikes the said nose and the fastening is sprung back, the stress of the spring metal being overcome, and having passed the said nose the latter springs back, occupying a position in the said slot at the rear of the stud *b*, where it acts as an impediment to the return of the stud into the eye 2. This sheet-metal fastening yields in a direction laterally to the movement of the stud along the slot 3.

In Fig. 1 the sheet-metal fastening is placed above the eye-plate, and is confined in that position by the same rivets which attach the said eye-plate to the steel.

If desired, the fastening may have two arms, as in Fig. 3, instead of one, as in Fig. 1.

Instead of providing the fastening with one nose, 4, as in Fig. 1, it may have several, as in Fig. 4, and so, also, it is obvious that the eye-plate, made a little larger than usual, may be

cut, as in Fig. 2, to form the fastening as an integral part of said eye-plate.

I claim—

In a corset-steel fastening, the eye-plate provided with an eye, 2, and a slot, 3, leading therefrom, combined with a connected sheet-metal hook having a nose to spring laterally across the slot 3 and impede the return of the stud from said slot, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LUCIAN HILL.

Witnesses:
BENJ. L. SAMPSON,
E. R. FISKE.