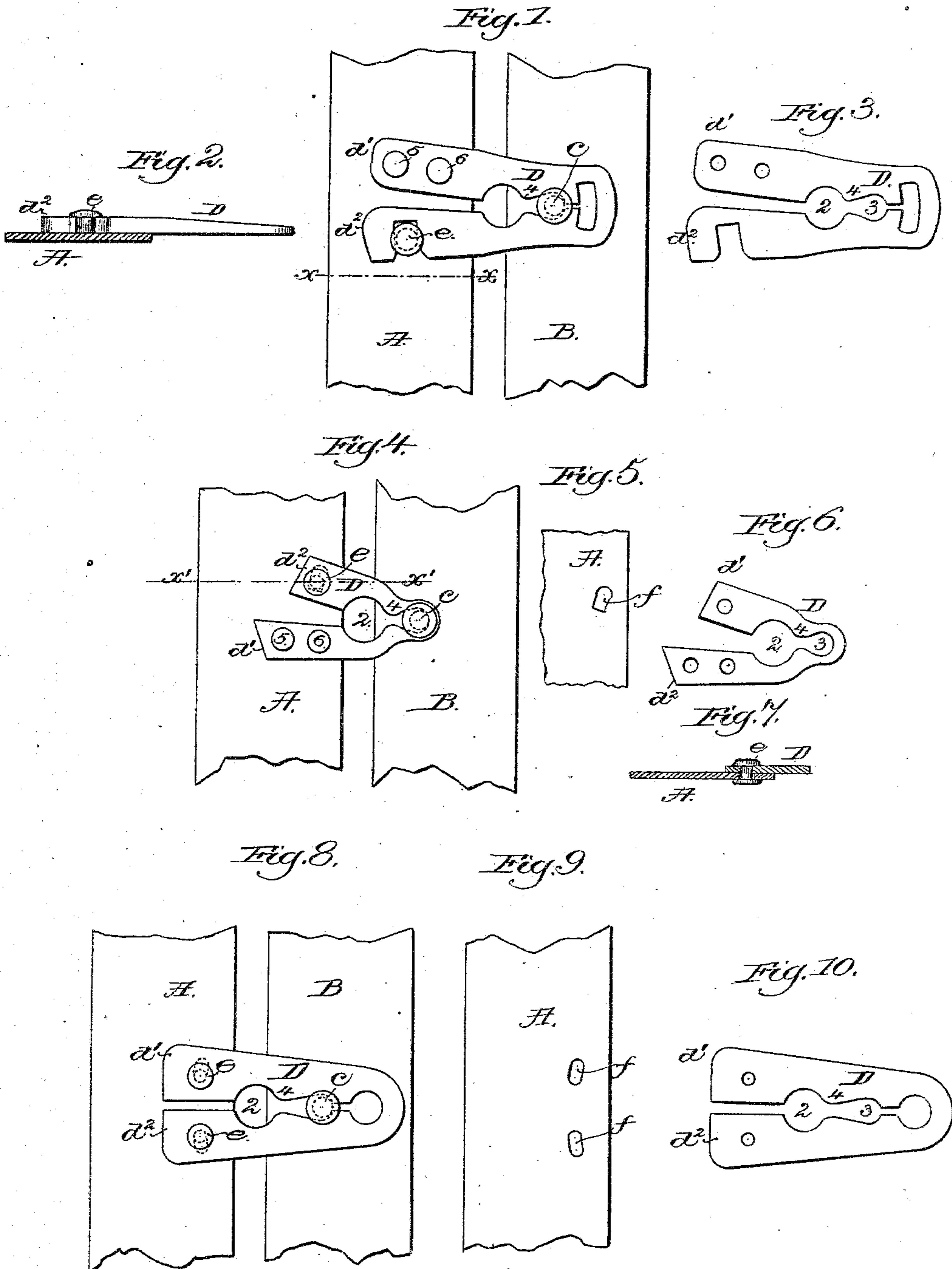


(No Model.)

L. HILL.
CORSET STEEL FASTENING.

No. 295,171.

Patented Mar. 18, 1884.



Witnesses
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UNITED STATES PATENT OFFICE.

LUCIAN HILL, OF NORTH BROOKFIELD, MASSACHUSETTS, ASSIGNOR TO
THEODORE C. BATES, OF SAME PLACE.

CORSET-STEEL FASTENING.

SPECIFICATION forming part of Letters Patent No. 295,171, dated March 18, 1884.

Application filed September 8, 1883. (No model.)

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 Improve-
5 ment in Corset-Steel Fastenings, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the produc-
10 tion of a simple and efficient lock-clasp or fastening device composed of a loop-like piece of metal closed at its outer end, and having one or both of its ends connected loosely with and so as to be free to move on or with relation
15 to the steel, the inner wall or edge of the loop being shaped to present two stud-receiving openings of different diameter connected by a slot of less width than the diameter of the stock of the opposed steel.

Prior to my invention an eye-plate has been
20 employed having its outer end slotted to constitute two spring-arms; but when the said arms are subjected to considerable strain, or become twisted out of the same plane, the stud
25 is liable to pass out from the said slot, leaving the corset loose.

In another application filed by me I have shown a one-piece lock-clasp having one or more spring-arms located within a plate firmly
30 riveted upon the steel; but such a lock-clasp requires for its production more metal and is more expensive to manufacture.

Figure 1 represents a sufficient portion of a pair of corset-steels to illustrate one embodi-
35 ment of my invention; Fig. 2, a section of Fig. 1 on the dotted line xx ; Fig. 3, a detail of the fastening device or lock-clasp removed; Fig. 4, a modification; Fig. 5, a detail of the slotted steel of Fig. 4; Fig. 6, the lock-clasp
40 of Fig. 4 removed; Fig. 7, a section of Fig. 4 in the dotted line x' . Fig. 8 is yet another modification; Fig. 9, a detail of the slotted spring of Fig. 8, and Fig. 10 shows the lock-clasp of Fig. 8 removed.

Referring to the drawings, the steels A B
45 and the headed studs c are all as usual. The lock-clasp D is composed of a spring-metal loop, the free ends d' d'' of which are next the edge of the steel A. The inner edge
50 or wall of the loop D is so shaped as to leave an opening, 2, of greater diameter than the head of the stud c , and an opening, 3, of less diameter than the head of the said stud, the two openings being connected by means of a

slot or space, which at some point, as at 4, is
55 of less width than the diameter of the stud c below its head.

In Figs. 1 to 3 the end d' of the loop, which constitutes the fastening or lock-clasp, is riv-
60 eted closely to the steel A by two rivets, 5 6; but the end d'' of the said loop has in it a hole or slot of greater diameter or area than the diameter of the rivet or pin e embraced by the end d'' , so that the said end may move
65 on or over the steel A as the stud c passes the narrow point 4 of the slot between the openings 2 and 3, the loop partially closing behind the stud c and locking the same in the opening 3.

Instead of providing the end d'' of the loop
70 with a slot or hole of greater diameter than the pin e , I may slot the steel A, as at f , and provide the end d'' with a fixed stud, e , to enter and move in the said slot.

In practice I find it necessary to have but
75 one end of the fastening or lock-clasp attached to the steel loosely; but I may, as I sometimes find it desirable, connect both the ends d' d'' loosely with the steel A, a small
80 amount of lost motion being provided for the difference between the diameters of the rivets
5 6 and the slots f , in which they enter, as in Figs. 8 and 9.

I do not claim a latch operated by a spring, as in United States Letters Patent No. 247,015; nor do I claim a corset-steel combined with
85 a longitudinally-arranged spring or series of wire loops which are adapted to move laterally with relation to the length of the steel and under bridge pieces attached to the steels,
90 as in United States Letters Patent No. 238,731.

I claim—

The steel B and its headed stud, combined with the steel A and its attached clasp D, one
95 end of the said clasp being connected loosely with the said steel, whereby the clasp is permitted to expand laterally as the stud passes from the larger into the smaller part of the eye of the clasp, and then springs back of and locks the said stud in the smaller part
100 of the clasp, all substantially as set forth.

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

LUCIAN HILL.

Witnesses:

G. W. GREGORY,
W. H. SIGSTON.