K. BERGNER.

CLOSING CONTRIVANCE FOR LADIES' WAISTS, BLOUSES, AND CORSETS.

APPLICATION FILED JUNE 28, 1913.

1,106,359. Patented Aug. 11, 1914.

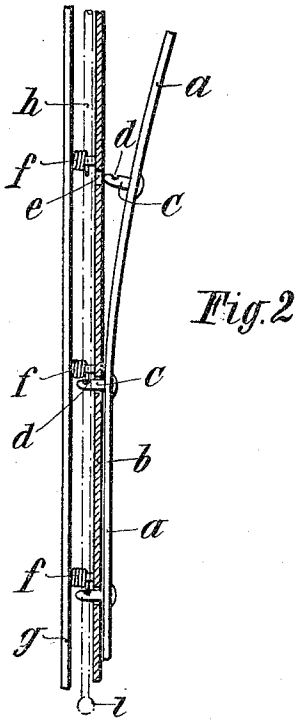


Fig. 2

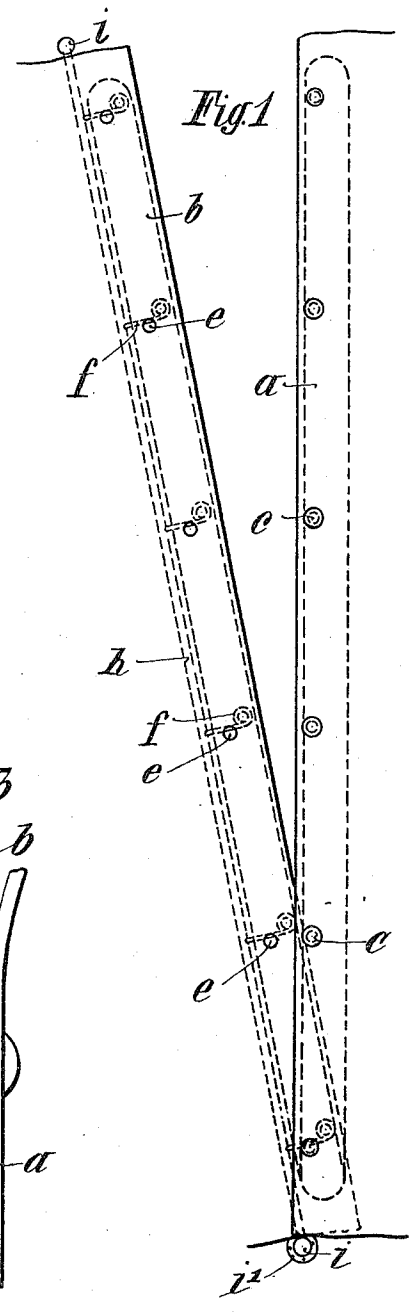


Fig. 1

Fig. 4

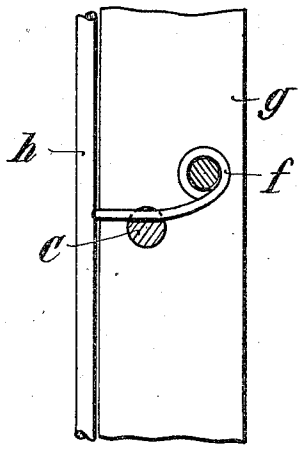
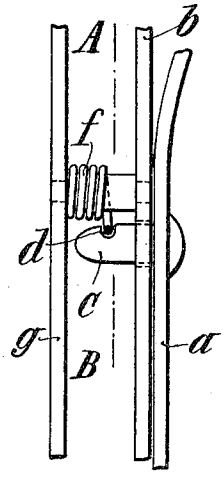


Fig. 3



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UNITED STATES PATENT OFFICE.

KARL BERGNER, OF BORSDORF, NEAR LEIPZIG, GERMANY.

CLOSING CONTRIVANCE FOR LADIES' WAISTS, BLOUSES, AND CORSETS.

1,106,359. Specification of Letters Patent. Patented Aug. 11, 1914.

Application filed June 28, 1913. Serial No. 776,319.

To all whom it may concern:

Be it known that I, KARL BERGNER, a subject of the King of Saxony, and a resident of Borsdorf, near Leipzig, Germany, have invented certain new and useful Improvements in Closing Contrivances for Ladies' Waists, Blouses, and Corsets, of which the following is a specification.

Hitherto, closing contrivances for corsets and other wearing apparel for ladies are already known, in which the single hook or eye-shaped closing members are arranged on a common longitudinal bar and the movable closing members are connected by a common rod, by the corresponding movement of which all closing members are engaged or disengaged. Such closing contrivances have, however, the drawback that they were too complicated and difficultly manipulable or too cumbrous and stiff, so that they were unfit for closing ladies' waists or blouses, and moreover they did not close safely enough so that at any movements of the body they became easily disengaged.

The present invention provides an improvement of the closing contrivances of the type mentioned, by constructing those members, which are connected by the common disengaging rod, as springs and arranging them behind holes of a longitudinal bar fixed to the blouse, in such a way that, upon pressing into said holes notched pins arranged on a second fixed bar of said blouse, the springs engage with said notches and thereby lock the closing contrivances. For opening the latter, it is only necessary to pull or press the disengaging rod against the action of the springs until the latter leave the notches in the pins and the bars, which cover each other, are disengaged. The two bars carrying the closing members and the disengaging rod can be made of comparatively thin sheet steel or other flexible strips, so that they yield to any movements of the body, whereby the improved closing contrivance is particularly adapted for closing blouses or waists, moreover as it can be easily disengaged and its function is very reliable.

The accompanying drawing shows the improved arrangement.

Figure 1 shows the same in its position of use on a blouse, before its being closed; Fig. 2 is a sectional side view of the same; Fig. 3 shows part of the same, also in a side view, on a larger scale; Fig. 4 is a section on the line A—B of Fig. 3.

The two bars *a* and *b* extend over the whole length of the parts of the blouse to be closed, to which they are fixed by sewing. The bar *a* carries a suitable number of pins *c* which have each a notch *d*. The other bar *b* is at the corresponding places provided with holes *e*, through which, when the two bars are placed above each other, the pins *c* project in such a way that the notches *d* therein lie behind the bar *b*, where they are engaged by the springs *f*. Behind the bar *b* another protecting bar *g* is disposed and rigidly connected therewith in such a way that a space is left between both bars, in which the springs *f* are arranged. One end of each spring *f* is fixed between the bars *b* and *g*, while the other free end serves for engagement with the notches *d*. All springs *f* are with the extremities of their free ends connected to a disengaging rod *h*, which is laterally disposed beside the bars *b*, *g* and adapted to be moved against the action of the springs so as to again disengage the notched pins *c* from said springs. For its easy manipulation, the rod carries on its lower end a button *i* projecting beyond the blouse. This button forms preferably the male member of a press-button so as to engage with a fixed female press-button member *i'* on the blouse when the closing contrivance is closed. For an intended disengagement of the latter, it is then necessary to first disengage said press-button members from each other to permit of the required movement of the rod *h*. This arrangement prevents an unintended movement of the rod and thus disengagement of the closing contrivance. The rear ends of the pins *c* are preferably cone-shaped, so that the springs *f* can easily engage with the notches *d* therein. The bars *a*, *b*, *g* and the rod *h* are preferably made of sheet steel, celluloid, vulcanized india-rubber or the like flexible material, so as to yield to any movements of the body.

What I claim is:

A closing contrivance for ladies' waists, blouses and corsets, comprising in combination, a fixed longitudinal flexible bar, a plurality of pins on said bar having notches, another fixed longitudinal flexible bar having a plurality of holes therein for a reception of said pins, a fixed flexible protecting

bar behind the latter bar, a plurality of springs between said protecting bar and the perforated bar fixed with one end to the latter and with their free ends adapted to engage said notched pins upon the latter being inserted in said holes, a flexible disengaging rod connected with the free ends of said springs and adapted to be moved against the action of the latter, and a press-button member on the lower end of said disengaging bar, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

KARL BERGNER.

Witnesses:
RUDOLPH FRICKE,
DORIS KRAHL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."