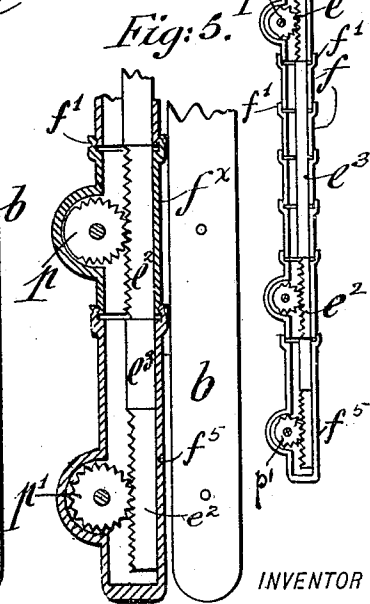
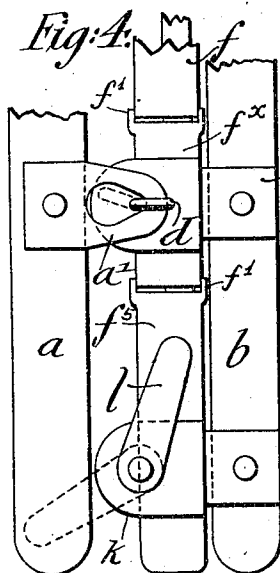
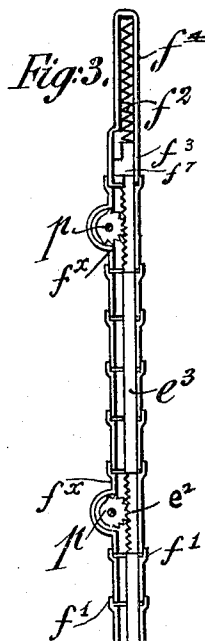
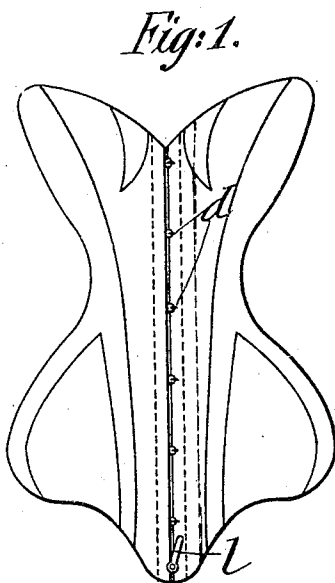
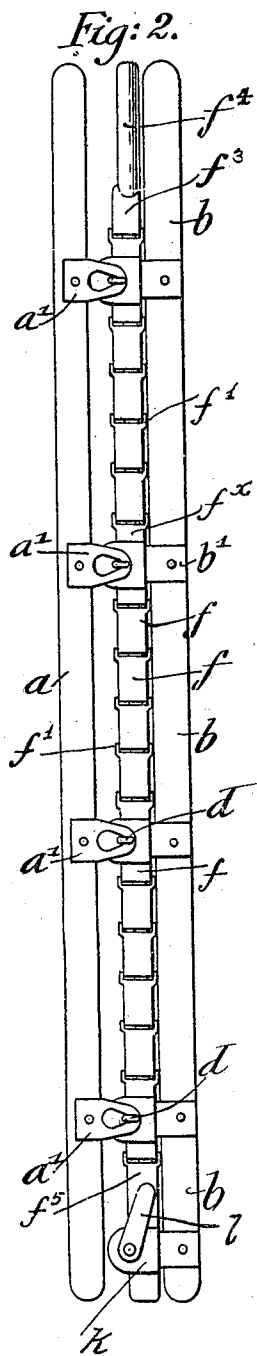


No. 837,669.

PATENTED DEC. 4, 1906.

P. DROSNESS.
CORSET BUSK.

APPLICATION FILED FEB. 2, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PHILLIP DROSNESS, OF NEW YORK, N. Y.

CORSET-BUSK.

No. 837,669.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed February 2, 1906. Serial No. 299,118.

To all whom it may concern:

Be it known that I, PHILLIP DROSNESS, a subject of the Czar of Russia, residing in New York, in the borough of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Corset-Busks, of which the following is a specification.

This invention relates to certain improvements in corset-busks by which the corset can be quickly and conveniently opened by the simultaneous unlocking of all the eyes, so as to facilitate the removal of the corset, but closed in the same manner as heretofore; and for this purpose the invention consists of a corset-busk which is formed of two steels, one provided with the usual eyes, while the second steel is provided with hooks engaging with said eyes and with mechanism for simultaneously turning all the hooks so as to permit their disengagement from the eyes. The invention also resides in other novel features to be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a front view of a corset provided with my improved busk. Fig. 2 is a front view of the busk shown as detached from the corset. Fig. 3 is a vertical section through the shifting mechanism. Fig. 4 is a detail front view of the lower part of the busk and the shifting mechanism drawn on a larger scale; and Fig. 5 is a section through the lower part of the shifting mechanism, also drawn on a larger scale, a modification of said mechanism being indicated in dotted lines.

Similar letters of reference indicate corresponding parts in the different figures of the drawings.

Referring to the drawings, *a* represents an ordinary corset-steel which is provided with the usual eyes *a'*, riveted thereto in the usual manner. Instead of using a second steel provided with ordinary studs that interlock with the eyes a steel *b* is used, which carries by means of fasteners *b'*, hooks *d*, which are capable of being turned on their axes by a shifting mechanism that is arranged alongside of the steel *b* and supported by the fasteners *b'* of the same. To the shanks of the hooks *d* are applied mutilated pinions *p*, which turn in sleeves *f^x* of the shifting mechanism, the pinions permitting the turning of the hooks on their shanks through an angle of nearly one hundred and eighty degrees, so as to be placed within the openings of the

eyes *a'* and permit the convenient sliding of the contracted ends of the eye-openings over the shanks and hooks so as to permit the ready detaching of the steel *a* from the steel *b*, and thereby the opening of the corset.

The turning of the hooks *d* is accomplished by means of shiftable rack-pieces *e²*, which are guided in the sleeves *f^x* of the pinions *p* and which are shifted in one direction by means of intermediate shifting pieces *e³*, which are interposed between the rack-pieces *e²* and guided in a plurality of flat sheet-metal sleeves *f*, which are provided at both sides with lugs *f'*, so as to form a connection with the next adjacent sleeve, said sleeves *f* being held in position between the sleeves *f^x*, containing the pinions *p* and racks *e²*, the uppermost sleeve *f³* being provided with a socket-shaped end *f⁴* in which a helical spring *f²* is placed which abuts against the uppermost shifting piece *f⁷* and serves to maintain all the shiftable racks and intermediate pieces in downward position, so that the hooks are held in normal position, ready for interlocking with the eyes of the steel *a*. The lowermost sleeve *f⁵* is closed at the lower end and provided with a shiftable rack-piece *e²* in the same manner as the rack-pieces used for operating the hooks, and a mutilated pinion *p'*, which turns in bearings of a keeper *k* at the lower end, the shaft of the pinion being provided with a short lever *l*, which when turned from the position shown in full lines in Fig. 4 into the position shown in dotted lines in the same figure imparts by the intermeshing of its pinion with the lowermost rack-piece an upward shifting motion to the shiftable rack-pieces and intermediate pieces above. By this movement the helical spring in the socket of the uppermost sleeve is compressed, and the simultaneous turning of all the hooks *d* on their shanks in the position shown in dotted lines in Fig. 4 is produced. The hooks are thus brought within the larger portions of the openings of the eyes so as to permit the ready slipping off of the eyes from the hooks, and thereby the simultaneous separation of the busk-steels and opening of the corset. As soon as the lever *l* is released all the shiftable racks *e²* and intermediate pieces *e³* are returned by the spring *f²* to their normal position, so that the hooks are returned into normal position, together with the actuating-lever *l*.

By the shifting mechanism described the

steels of the busk can be readily separated and the corset instantly opened, while the same is closed in the same manner as the corsets heretofore used. It permits thereby the quick opening of corsets without any effort or inconvenience and the return of the shifting mechanism and hooks into normal position ready for the next closing of the corset.

10 Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

1. A corset-busk consisting of two steels, one steel being provided with eyes, and the other with movable hooks, a shifting mechanism for said hooks arranged alongside the hook-carrying steel and composed of a plurality of connected sleeves, pinions rotatable in certain of said sleeves and mounted on the shanks of said hooks, rack-pieces movable in said sleeves and intermeshing with the pinions, intermediate pieces housed within said sleeves and arranged between said rack-

pieces, and means for simultaneously shifting the rack-pieces and intermediate pieces. 25

2. A corset-busk consisting of two steels, one steel being provided with eyes, stationary keepers on the other steel, rotary hooks mounted on said keepers, and a shifting mechanism arranged alongside the hook-carrying steel and composed of pinions mounted on the shanks of said hooks, rack-pieces intermeshing with said pinions, intermediate pieces between the rack-pieces, guide-sleeves for the rack-pieces and intermediate pieces, a shifting device in connection with the lowermost sleeve, and a return-spring mounted in the uppermost sleeve and engaging the uppermost shifting piece. 30 35

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses. 40

PHILLIP DROSNESS.

Witnesses:

VITOLD DROSNESS,
HENRY J. SUHRBIER.