(No Model.)

O. BANNIER

CORSET BUSK.

No. 398,569. Patented Feb. 26, 1889.

Fig. 1

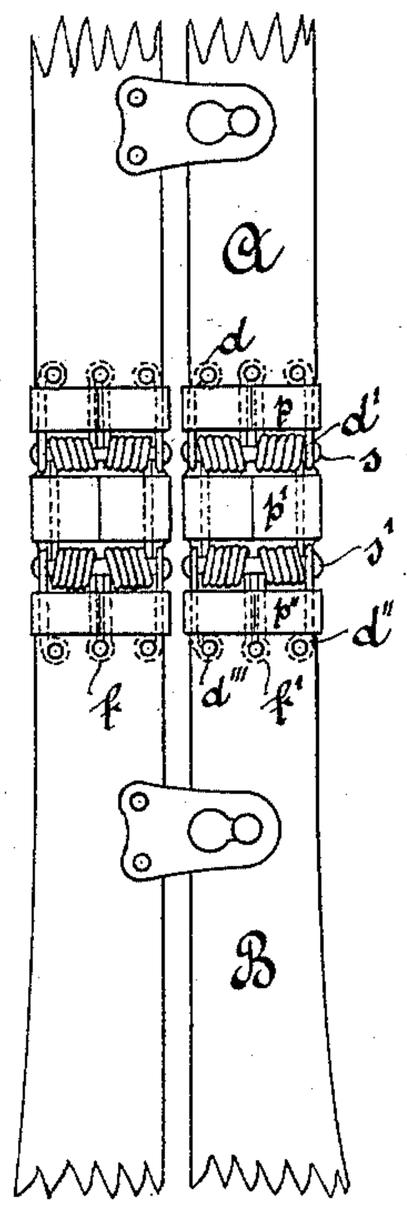

Fig. 2

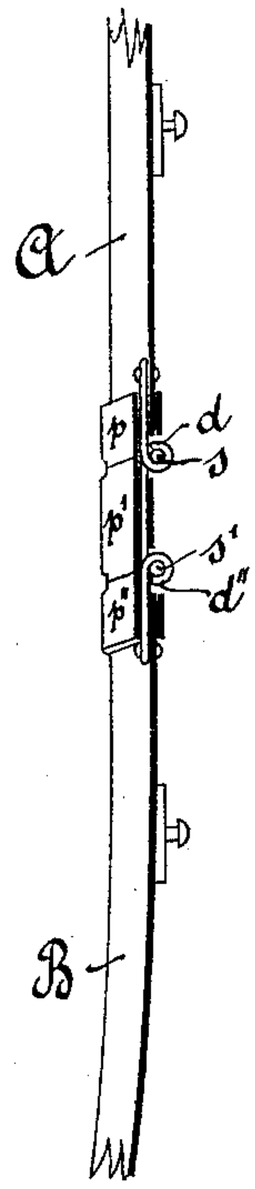

Fig. 5

Fig. 6

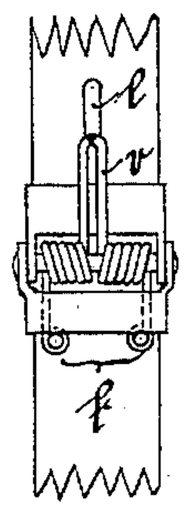

Fig. 7

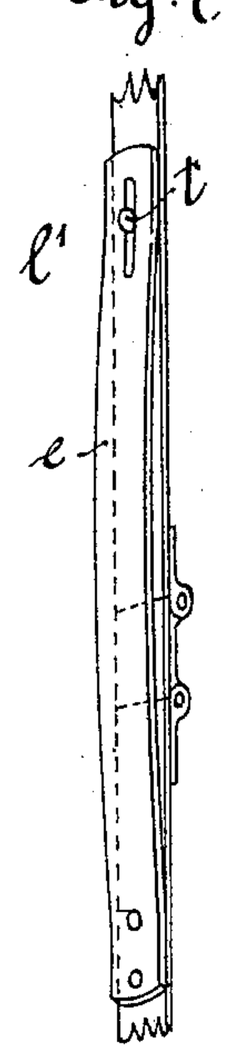

Fig. 3

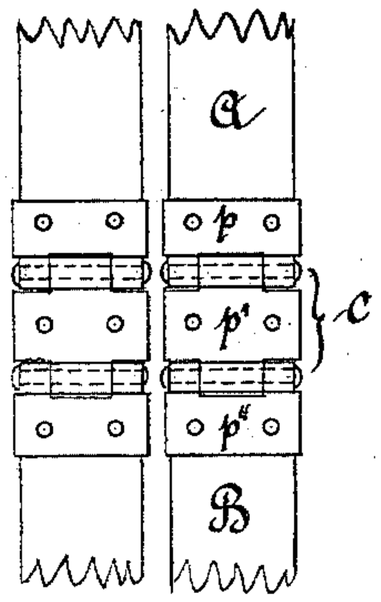

Fig. 4

Witnesses:
Robert Henriksen
Georg Ludwig.

Inventor:
Otto Bannier
per Georg Ludwig & Koch,
Attorneys.

UNITED STATES PATENT OFFICE.

OTTO BANNIER, OF HAMBURG, GERMANY, ASSIGNOR TO ADOLPH HINRICHSEN & CO., OF SAME PLACE.

CORSET-BUSK.

SPECIFICATION forming part of Letters Patent No. 398,569, dated February 26, 1889.

Application filed June 11, 1885. Serial No. 168,303. (No model.) Patented in Belgium May 15, 1885, No. 68,885; in France May 23, 1885, No. 169,110; in Austria-Hungary October 9, 1885, No. 29,109 and No. 51,312, and in England June 4, 1885, No. 6,807, and June 18, 1886, No. 8,129.

To all whom it may concern:

Be it known that I, OTTO BANNIER, a subject of the Emperor of Germany, and a resident of Hamburg, Germany, have invented a new and useful Improvement in Busks for Corsets, (for which Robert Hinrichsen and Adolph Hinrichsen, of Hamburg, have with my consent obtained patents in Belgium May 15, 1885, No. 68,885; in France May 23, 1885, No. 169,110; in Austria-Hungary October 9, 1885, No. 29,109 and No. 51,312, and in Great Britain June 4, 1885, No. 6,807, and June 18, 1886, No. 8,129,) of which the following is a specification.

The object of my invention is to avoid the breakage of busks or stays at the waist, where they are mostly exposed to breakage, and at the same time to give them greater stiffness against bending toward the inside of the corset. I attain this object by the mechanisms illustrated in the accompanying drawings, in which—

Figure 1 is a front view; Fig. 2, a vertical section of the middle part of an improved double busk. Figs. 3 and 4 are modifications. Fig. 5 is a detail; Fig. 6, a modified form of the spring, while Fig. 7 shows the application of a flat spring in the mechanism instead of a helical spring.

Each busk consists of an upper part, A, and a lower part, B, which are united by means of a helical spring, *f*, placed transversely to the busk, and hinges *d*, the upper end of the said spring being attached to the part A and the lower end to the part B of the busk. Pins *s* are passed through the adjacent spirals of the spring *f*. The ends of said pins are inclosed by the hinges *d*, while the straight parts of the spring and the hinges *d* are covered by three metal plates, *p*, the middle one of which serves as a rabbet for the two outer ones, and thereby prevents any bending of the busk at this point toward the inner side. The ends of the pins *s* may also be fitted in a suitable manner to the extremities of the two outer plates, forming hinge-joints. Then the middle plate must be dispensed with altogether, as shown by Fig. 6. In adopting this arrangement only one pin is used, around which the spring is wound in such a manner as to make a lever-like formation, *v*, in the middle. The bent end of the spring catches in a slit, *l*, provided at the upper or lower part of the busk.

I am aware that prior to my invention corset-busks have been made, each consisting of two parts united by springs. I therefore do not claim such a combination, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. A corset busk or stay composed of two halves united by hinge-joints and a helical spring placed transversely to the busk or stay, one end of the said spring being attached to one half and the other end to the other half of the busk or stay, substantially as described.

2. In a busk or stay, the combination, with a single or double hinge, *d*, fitted with a single or double spring, *f*, across the staff coiled round pins *s* of cover-plates *p*.

OTTO BANNIER.

Witnesses:
ROBERT HINRICHSEN,
GEORGE LUDWIG.