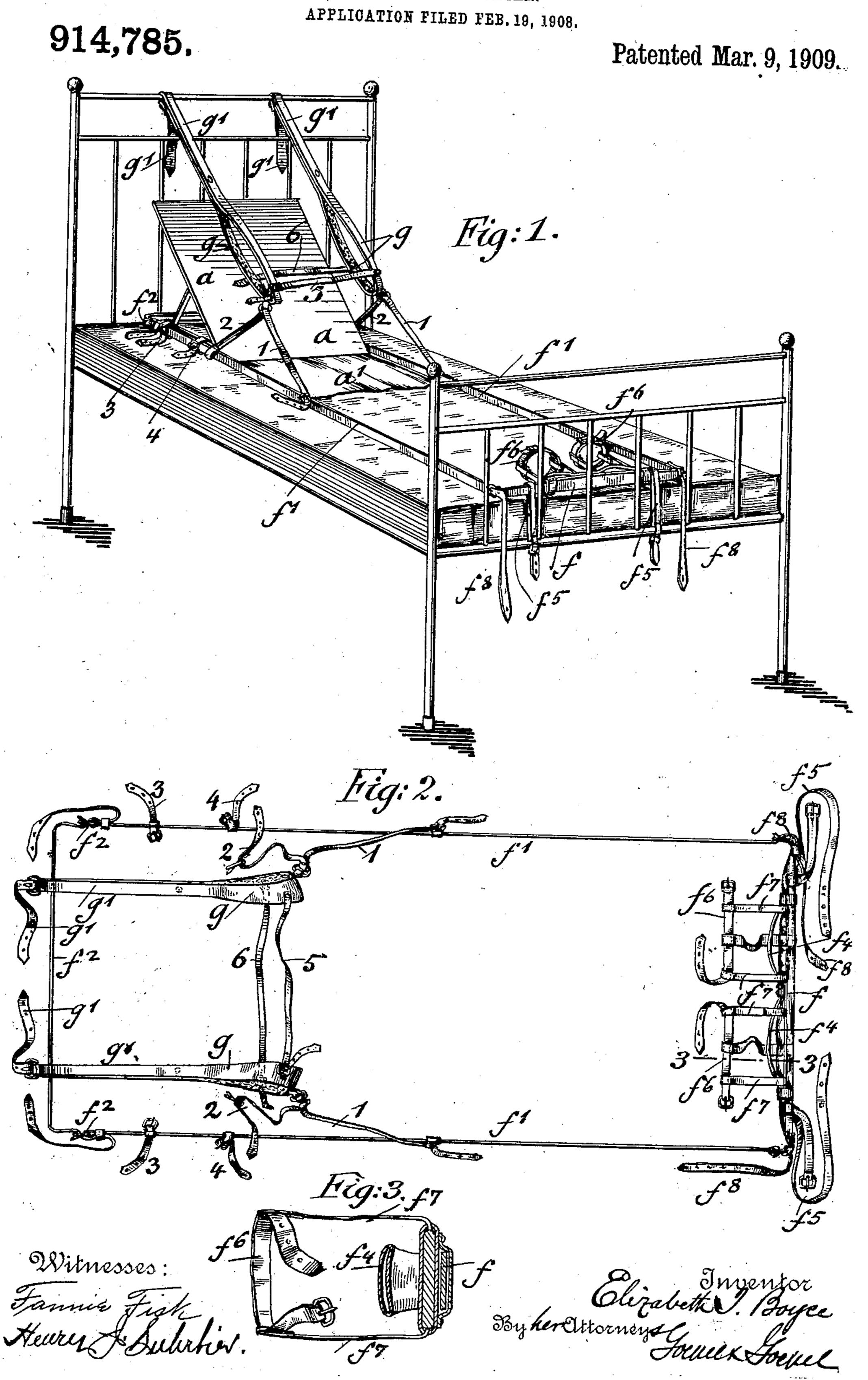
E. I. BOYCE.
INVALID'S SUPPORTER.
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THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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INVALID'S SUPPORTER.

No. 914,785.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Elizabeth I. Boyce, a citizen of the United States, residing in New York, in the borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Invalids' Supporters, of which the following is a specification.

This invention relates to an improved sup-10 porter for invalids by which the body can be supported in upright position. Very weak patients when raised into an upright or partially upright position are liable to slide downward toward the foot-end of the bed.

The object of this invention is to prevent the sliding down of the body and to support the same in upright position whenever required; and for this purpose the invention consists of an invalid's supporter which comprises a foot-rest that is connected by main and auxiliary straps with the head-piece of the bed-stead, said foot-rest being composed of a padded transverse bar and loops on the same for the feet, for preventing the down25 ward sliding of the body.

The invention consists further of the arrangement of looped shoulder-straps which are attached to the head-piece of the bed and connected with the main-straps of the foot30 rest and retained on the body by auxiliary front and rear-straps extending transversely between the shoulder-straps, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of a bed shown with my improved invalid's supporter in position thereon, Fig. 2 is a plan-view of my improved invalid's supporter showing the different main-straps, shoulder-loops and auxiliary straps as detached from the bed-stead, and Fig. 3 is a vertical transverse section through the foot-rest on line 3, 3, Fig. 2, drawn on a larger scale.

Similar reference characters indicate cor-

My improved supporter for invalids is used in connection with a bed-rest a of the well known constrution. The lower part of the 50 bed-rest a is provided with an extension a of stout textile fabric. Many invalids are unable to raise themselves in upright position without the assistance of a nurse and are so weak that they cannot hold themselves in upright position for taking their meals or for

other purposes.

prevent the body when in raised position from sliding down toward the foot-end of the bed and to support the body in raised posi- 60 tion. For this purpose the supporter consists of two main-parts, a foot-rest f and two padded shoulder-straps g. The foot-rest fextends transversely across the foot-end of the bed and is connected by longitudinal 65 main-straps f^1 with the head-piece of the bedstead to which they are attached by a transverse strap f^2 connected by buckles f^3 with the main-straps so as to give a firm hold for the foot-rest f. The foot-rest f is made 70 of wood or other rigid material covered and padded in a suitable manner and having two loops f^4 for the insertion of the feet, so that they are held in position against the footrest. The downward sliding of the body of 75 the invalid, after his feet are placed in position in the loops of the foot-rest, is prevented by the hold which the foot-rest gives to the feet. The main-straps f^1 are attached to the frame of the foot-piece of the bed-stead by 80 buckle-straps f^5 , said straps preventing the foot-rest from being drawn upward by the feet of the patient; while transverse straps f^{8} connected with the foot-piece of the bedstead prevent the foot-rest from shifting in 85 lateral direction. Ankle-straps $f^{\mathfrak{g}}$ are con-

The improved supporter is intended to

feet from the loops. For supporting the upper part of the body in raised position, the loop-shaped shoulderstraps g are placed around the shoulders of the body of the patient, their rear-ends being attached by means of buckle-straps g^1 to the 95 head-piece of the bedstead above the bedrest, as shown in Fig. 1. The front-ends of the shoulder-straps g are connected by two pairs of buckle-straps 1 and 2 with the longitudinal main-straps f^1 , and by short straps 3 100 and 4 with the base-frame of the bed-rest a, while transverse front and rear-straps 5 and 6 extending between the shoulder-straps serve for holding the shoulder-straps, after the arms are passed through the same, in po- 105 sition on the upper part of the body, so that thereby the body of the invalid is supported in raised position. Very weak patients when raised to an upright or partly upright position, have a tendency to drop their shoulders 110 to one side or the other, thus rendering their position not only uncomfortable but often

nected by short straps f^7 with the foot-rest f

near each loop and serve to hold the feet in

the loops and to prevent the detaching of the

distressing. The shoulder-straps prevent this dropping of the shoulders, and hold the patient in the position in which he is placed without inconvenience and discomfort. 5 When the patient is strong enough to hold his shoulders in the proper position, that is to say, without dropping them to one side or the other, then the shoulder-straps need not be used at all and may be detached until re-10 quired for use.

The improved supporter is especially useful in cases of abdominal surgical operations when the patient is required to occupy a

semi-recumbent position.

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

1. The combination, with a bedstead, of shoulder-straps suspended from the upper 20 part of the head-piece of the bedstead and having loops through which the patient's arms are passed to hold the patient in semirecumbent position, a front-strap to connect the loops across the breast of the pa-25 tient, and a rear-strap to connect the loops at the back.

2. The combination, with a bedstead and an inclined bed-rest thereon, of a foot-rest connected with the foot-piece of the bed-30 stead, longitudinal straps connecting said foot-rest with the bed-rest and with the head-piece of the bedstead, and shoulderstraps connected with the upper part of the head-piece and with the longitudinal straps.

3. The combination, with a bedstead and an inclined bed-rest adjacent the head-piece thereof, of a foot-rest connected with the foot-piece of the bedstead, longitudinal straps connecting the ends of the foot-rest with the head-piece, shoulder-straps connected with the head-piece and having shoulder-holding loops in front of the bed-rest,

and means connecting said loops with the intermediate parts of said longitudinal straps.

4. The combination, with a bedstead, of a foot-rest connected with the foot-piece thereof, longitudinal straps connecting said foot-rest with the head-piece of the bedstead, shoulder-straps suspended from the 50 top of the head-piece and having loops through which the patient's arms are passed, and means for connecting the lower parts of said loops with said longitudinal straps.

5. A device for supporting the bodies of 55 invalids, which comprises a transverse footrest, having loops for the feet, means for connecting the foot-rest with the head-piece of the bed-stead, looped shoulder-straps for supporting the shoulders of the invalid, 60 cross-straps for holding said shoulder-straps to the body of the invalid, and straps for attaching the shoulder-straps to the head-

piece of the bed-stead.

6. An invalid's supporter, consisting of a 65 transverse foot-rest provided with loops for the feet, main-straps connecting the footrest with the head-piece of the bed-stead, looped and padded shoulder-straps provided with means for connecting them with 70 the head-piece of the bed-stead-auxiliary straps for connecting the front-ends of the shoulder-straps with the main-straps, and front- and rear-straps extending transversely between the shoulder-straps for holding them 75 on the body.

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

ELIZABETH I. BOYCE.

Witnesses:

PAUL GOEPEL, Henry J. Suhrbier.