

(No Model.)

H. W. RU TON.
FOLDING BED.

No. 528,609.

Patented Nov. 6, 1894.

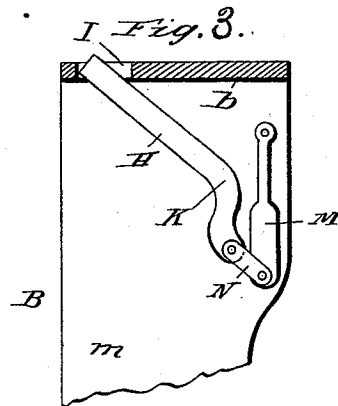
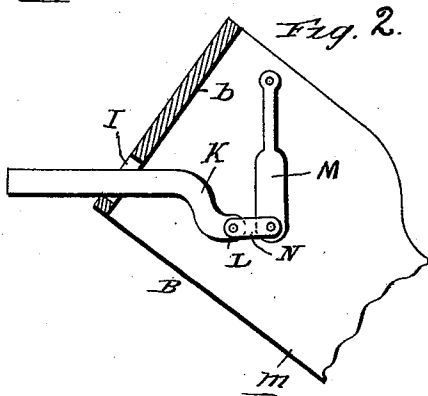
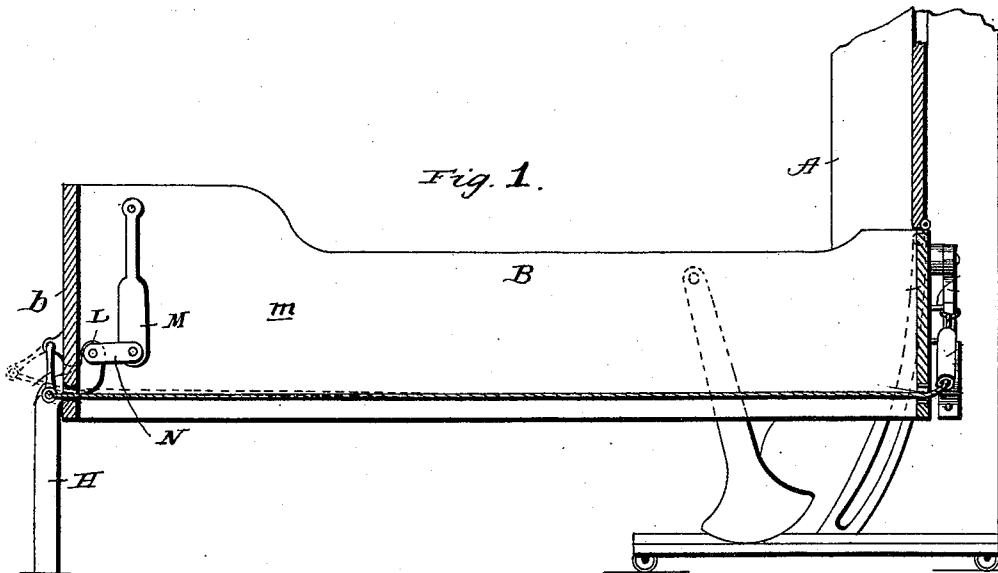
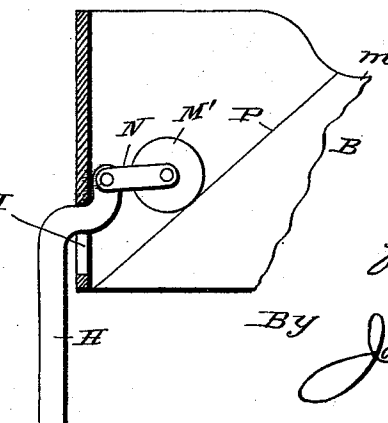


Fig. 4.



Witnesses:
Chas. H. Hader
W. P. Matthews.

Inventor

H. W. RuTon

By

James J. Shueley

Attorney

UNITED STATES PATENT OFFICE.

HIRAM W. RU TON, OF GOSHEN, INDIANA, ASSIGNOR TO THE GOSHEN
FOLDING BED COMPANY, OF SAME PLACE.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 528,609, dated November 6, 1894.

Application filed December 11, 1893. Serial No. 493,383. (No model.)

To all whom it may concern:

Be it known that I, HIRAM W. RU TON, a citizen of the United States, residing at Goshen, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Folding Beds; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in folding beds; and it has for its general object to provide a folding bed section with a leg adapted to automatically assume its operative position when the section is lowered and also adapted to drop out of sight when the section is raised so as not to render the folded bed unsightly.

With the foregoing end in view, the invention will be fully understood from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a vertical, longitudinal section of a folding bed embodying my improvements, with the bed section in its operative position. Fig. 2, is a detail sectional view illustrating the manner in which the leg assumes its operative position when the bed section is lowered. Fig. 3, is a similar view illustrating the position of the leg when the bed section is in its upright position, and Fig. 4, is a detail section illustrating a modified construction of leg.

Referring by letter to said drawings, A, indicates the upright, stationary frame of the bed which may be of the ordinary or any approved construction, and B, indicates the bed section which may be hinged to, pivoted in, or otherwise connected to the frame in such a manner that it may be folded in and extended from the same.

H, indicates the automatic, adjustable legs of the bed, of which there are preferably two, employed upon each bed section B. These legs H, are designed to rest and move in the openings I, formed in the foot board b, and they have their upper portions bent as illustrated, so as to afford the shoulders K, which are designed to rest in the openings I, when the legs are in their operative position, and

the end portions L, designed to rest against the inner side of the foot board, as shown.

M, indicates swinging weights which are pivotally connected at their upper ends to the side rails m, of the section B, and have their free ends connected with the portions L, of the legs by links N, as shown. These swinging weights M, are designed and adapted to assume a perpendicular position, whatever the position of the bed section B, and consequently it will be seen that when the bed section is raised, they will draw the legs H, in through the openings I, so that when the bed section rests within the frame, the legs will be out of sight, while when the bed section is lowered they will gradually push the legs through the openings I, and will cause the said legs to assume their operative position as shown in Fig. 3. By the manner just described of connecting the legs to the bed section B, it will be seen that when the bed section is raised into its position within the frame A, the legs, together with the openings I, will be entirely out of sight and the folded bed will present the appearance of an ordinary wardrobe, or the like.

In the practice of the invention, I prefer to arrange the openings I, adjacent to the ends of the foot board b, so that the play space of the weights M, links and legs may be incased in order to prevent the bed clothes from interfering therewith.

In Fig. 4, of the drawings, I have shown a modified construction of leg and weight for moving the same. In this modified construction, I employ a leg H, similar to those before described, and in conjunction with this leg, I employ a weighted wheel M', which is connected to the leg by a link as N, and is designed to travel upon an inclined plane as P, so as to draw the leg in or push it out according to the direction in which the bed section is moved. This modified construction may be and preferably is incased in the manner before described, so as to prevent the bed clothes from interfering with the movements of the parts.

It will be noted from the foregoing description and the drawings, that my improvements are very simple and cheap; that they are very light and durable and do not materially

increase the weight of the bed, and that they serve effectually to support the bed when it is in its operative horizontal position.

While I have specifically described the construction and relative arrangement of the several parts embraced in my improvements, I do not desire to be understood as confining myself to such specific construction and arrangement as I reserve the right to make in practice such changes or modifications as fall within the scope of the invention.

Having described my invention, what I claim is—

1. In a folding bed, the combination with a folding bed section having the opening I, in its foot board; of the movable leg H, arranged in and guided by the said opening and having its upper portion bent so as to form the shoulder K, and the end portion L, and means for pushing the movable leg through the opening I, and into an operative position

when the bed section is lowered, and drawing said leg in, out of sight, when the bed section is raised, substantially as and for the purpose set forth.

2. In a folding bed, the combination with a folding bed section having the opening I, in its foot board; of the movable leg H arranged in and guided by the said opening I, and having its upper portion bent so as to afford a shoulder K, adapted to engage the top wall of the opening I, and an end portion L, the swinging weight M pivotally connected to the bed section, and a link connecting the weight and the portion L, of the leg, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

HIRAM W. RU TON.

Witnesses:

CHARLOTTE CARMEN,
LEWELL M. AYERS.