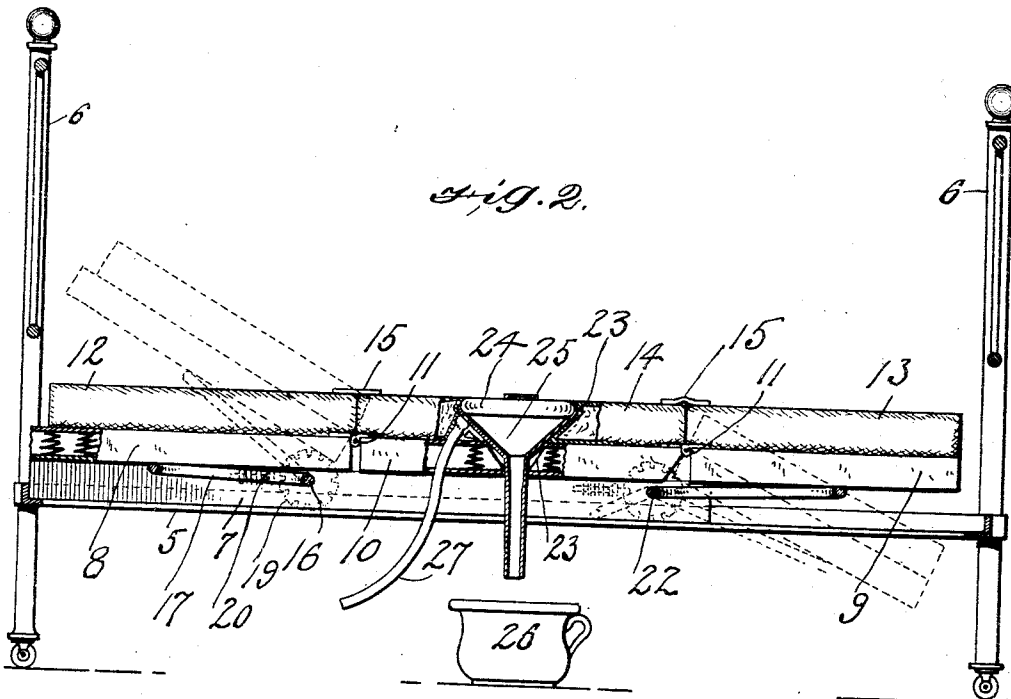
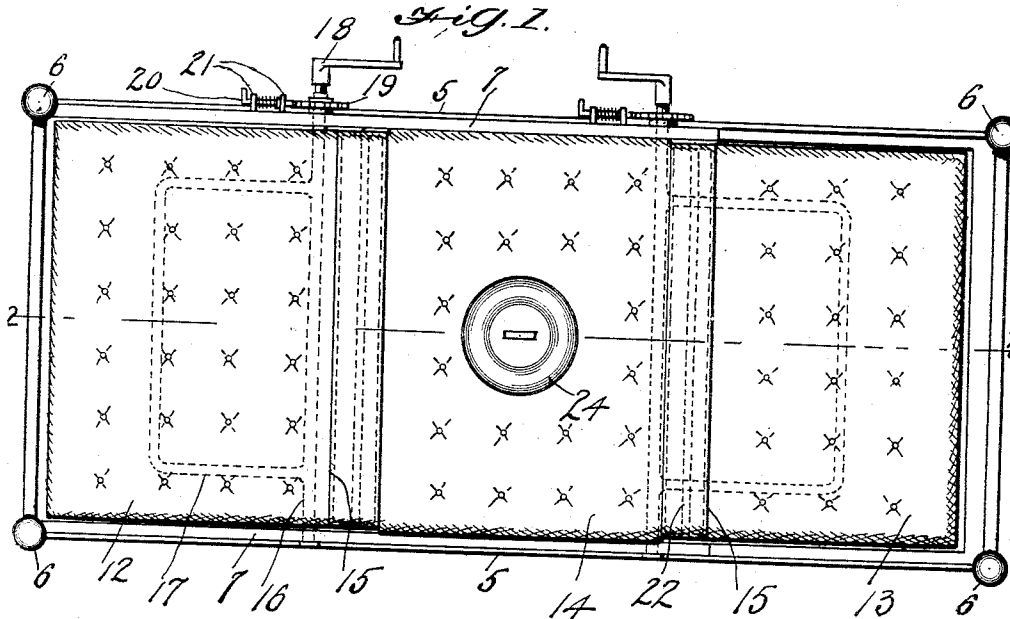


J. B. FORD.
INVALID BED.
APPLICATION FILED NOV. 29, 1909.

963,538.

Patented July 5, 1910.



Witnesses
F. C. Barry
R. Schmidt

Inventor
John B. Ford
by Max A. Schmidt
Attorney

UNITED STATES PATENT OFFICE.

JOHN B. FORD, OF JEFFERSONTOWN, KENTUCKY.

INVALID-BED.

963,538.

Specification of Letters Patent.

Patented July 5, 1910.

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To all whom it may concern:

Be it known that I, JOHN B. FORD, a citizen of the United States, residing at Jefferson-town, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Invalid-Beds, of which the following is a specification.

This invention has for its object to provide an invalid bed embodying certain novel structural details to be hereinafter described and claimed.

It is also the object of the invention to provide a device in the nature of an attachment for an ordinary bedstead, whereby the latter is changed to an invalid bed.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 is a plan view of the bed, and Fig. 2 an elevation, partly in section on the line 2—2 of Fig. 1.

Referring to the drawing, 5 denotes the side rails, and 6 the corner posts of an ordinary iron bedstead. The side rails are L-shaped in cross-section, one of the flanges thereof extending inwardly and horizontally. On the inwardly extending flanges of the side rails are removably supported bars 7 extending in the direction of the length of the bedstead. On these bars is mounted a spring bed-bottom comprising a head section 8, a foot section 9, and an intermediate section 10, the head and foot sections being hinged to the intermediate section, as indicated at 11, so that the head section may be swung upwardly, and the foot section downwardly. The intermediate section is rigidly fastened to the bars 7. The head and foot sections are made slightly narrower than the intermediate section, so that they are free to swing between the bars 7.

On the bed-bottom is mounted a mattress, which is also in sections, the same comprising a head section 12, a foot section 13, and an intermediate section 14. These sections coincide with the bed-bottom sections, they being also hinged together, as indicated at 15, so that the head section 12 may swing upwardly with the bed-bottom section 8, and the foot section 13 downwardly with the foot section 9 of the bed-bottom.

The following means are provided for raising and lowering the head sections of the mattress and the bed-bottom: Extending transversely of the bedstead, and journaled in the bars 7, is a shaft 16, carrying

intermediate its ends a pair of arms which are joined at their outer ends to form a bail 17, said arms being rigidly fastened to the shaft, or formed integral therewith, and extending beneath the bed-bottom section 8. On one end of the shaft is fitted a crank handle 18, and a ratchet wheel 19, the latter having its teeth engageable by a spring-pressed bolt or pawl 20 slidably mounted in guides on one of the bars 7. The ratchet and bolt are provided for locking the shaft. Upon turning the shaft 16 in one direction, by means of the crank handle 18, after releasing the bolt 20, the bail 17 swings upwardly, and upon engaging the head section 8, elevates the same together with the head section 12, as shown by dotted lines in Fig. 2. The parts are locked in this position by the bolt. When the shaft is turned in the opposite direction, the bail swings downwardly, whereupon the parts lower, and are restored to their normal horizontal position. The foot sections of the bed-bottom and mattress are lowered and elevated by means of a shaft 22, provided with a bail, an operating, and a locking device, the same as the ones already described. The shaft also extends transversely of the bedstead, and is journaled in the bars 7. The bars 7 are higher than the vertical flanges of the side rails and rise a sufficient distance above the latter to permit the shafts 16 and 22 to extend across above the rails without interference thereby.

In the intermediate sections of the mattress and the bed-bottom, are registering openings 23, the opening of the mattress being closed by a removable air cushion pad 24 fitting snugly therein to effect a tight closure. In these openings is mounted a funnel or hopper-shaped vessel 25, which is porcelain lined. Beneath the discharge end of the vessel is placed a vessel 26 to receive the discharge. To the vessel 25 is connected a flushing hose 27 in order that it may be thoroughly cleansed.

By the structure herein described, a cheap and sanitary bed attachment is had, which can be readily applied to any ordinary iron bedstead, and by the adjustable head and foot sections, the occupant of the bed can be placed in the most convenient position for using the vessel 25, the sections being readily adjusted to any angle.

I claim:

The combination with a bedstead having

side rails provided with inwardly extending horizontal flanges; of longitudinal bars removably mounted on said flanges, and rising above the rails, a bed bottom carried by the bars, and having an adjustable section swinging between the bars, a shaft journaled in that portion of the bars located above the side rails, and extending across the bedstead above the side rails, an arm extending from

the shaft beneath the adjustable sections, 10 and means for rotating the shaft.

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

JOHN B. FORD.

Witnesses:

THEO. C. SNIVELY,
R. W. COLE.