

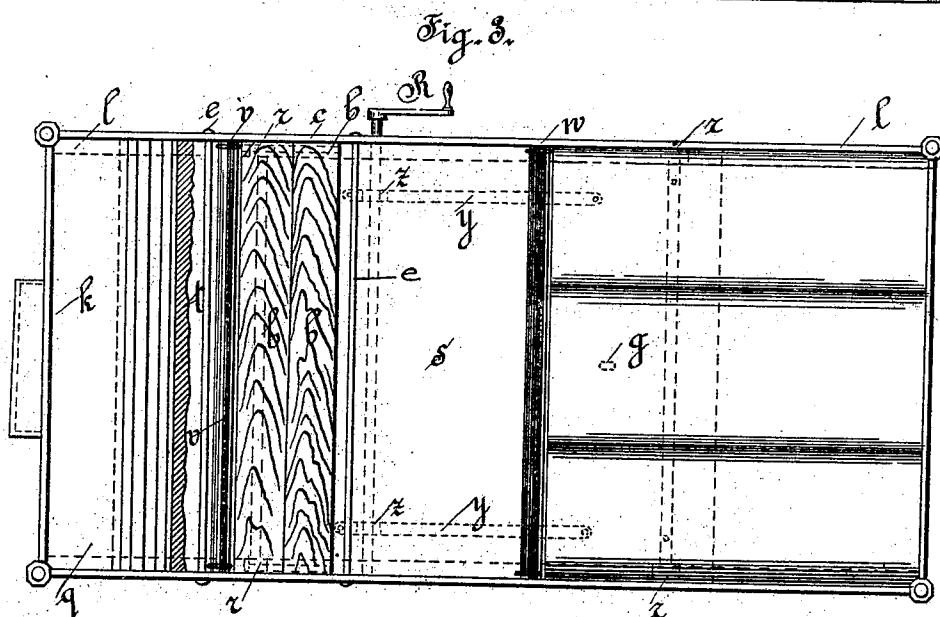
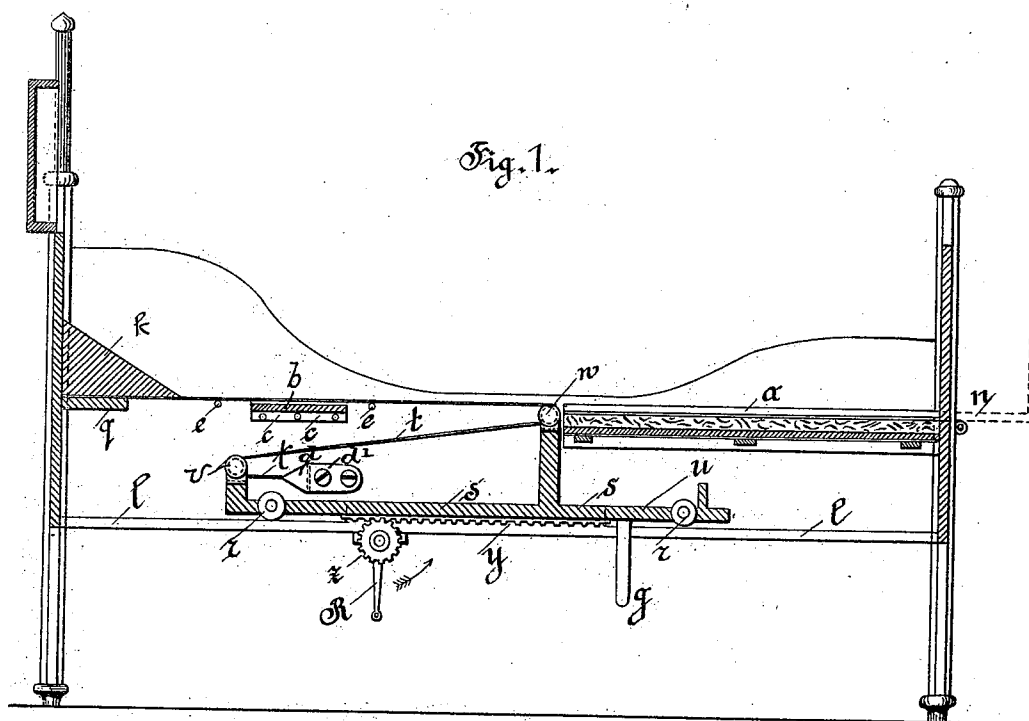
(No Model.)

J. EGGERT.
INVALID BED.

3 Sheets—Sheet 1.

No. 513,310.

Patented Jan. 23, 1894.



Witnesses.
C. M. Clark
C. Sedgwick

Inventor
J. Eggert
by Munn & Co
Attorneys

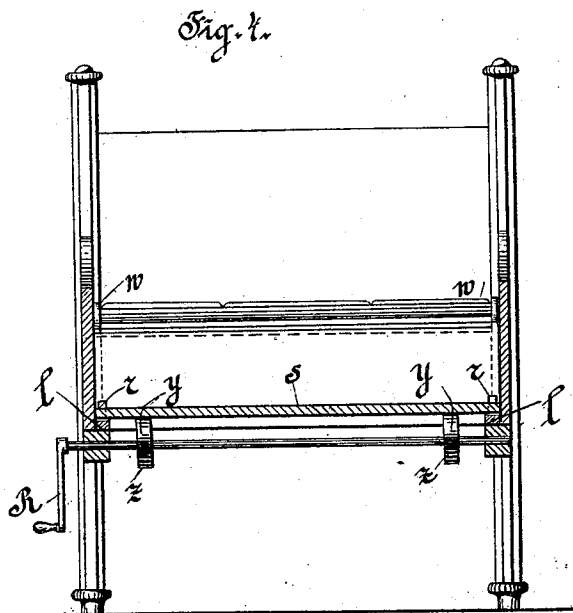
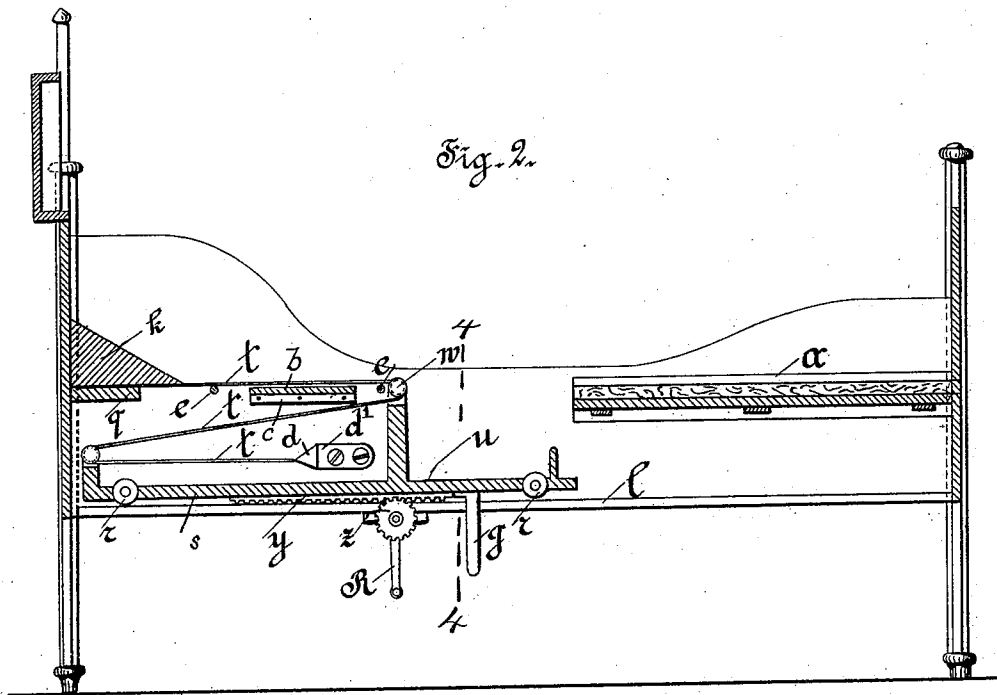
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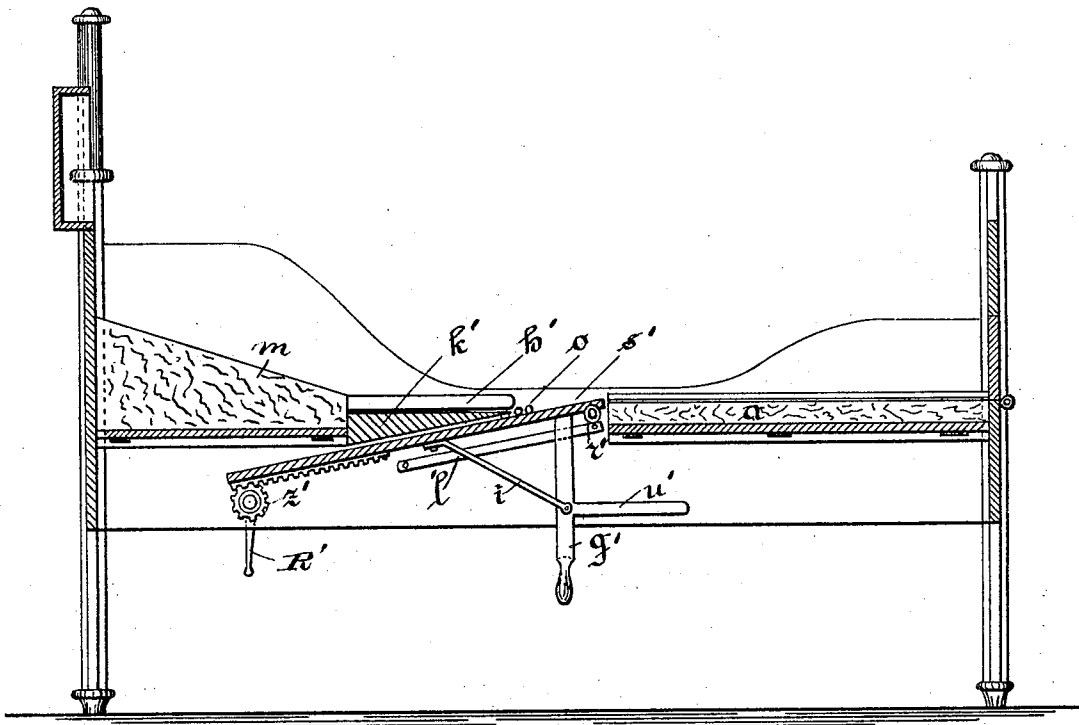
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Fig. 5.



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UNITED STATES PATENT OFFICE.

JOACHIM EGGERT, OF BURG, FEMERN, GERMANY.

INVALID-BED.

SPECIFICATION forming part of Letters Patent No. 513,310, dated January 23, 1894.

Application filed August 4, 1892. Serial No. 442,137. (No model.) Patented in Germany April 10, 1892, No. 67,681, and in England June 25, 1892, No. 11,905.

To all whom it may concern:

Be it known that I, JOACHIM EGGERT, of Burg, Island of Femern, Prussia, Germany, have invented a new and useful Improvement
5 in Invalid-Beds, (patented in Germany April 10, 1892, No. 67,681, and in England June 25, 1892, No. 11,905,) of which the following is a full, clear, and exact description.

The object of the invention is to provide a
10 bed so constructed that a bed pan may be properly placed therein without any inconvenience to the patient or requiring the latter to be lifted.

The invention consists in the novel features
15 hereinafter particularly described and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate
20 corresponding parts in all the figures.

Figure 1 is a longitudinal sectional elevation showing the bed in its normal or closed position. Fig. 2 is a similar view showing the bed open for the proper placing of a bed pan.
25 Fig. 3 is a plan view of the bed closed. Fig. 4 is a transverse sectional elevation, the section being taken on line 4—4, Fig. 2; and Fig. 5 is a longitudinal sectional elevation illustrating a modified form.

The bedstead may be of any approved form in so far as relates to the head and foot boards and side rails. At the bottom of the bedstead is a mattress *a*, which extends longitudinally to about the center of the bedstead, forming
30 the lower half of the bed.

Referring especially to Figs. 1 to 4, a transverse board or strip *q*, and a block *k* which also ranges transversely serve to securely clamp and hold the end of a web *t*, which passes
40 over a transverse roller *w* carried by a slide *s*, and normally occupying a position close to the end of the mattress *a*. From the roller *w* the web *t*, which may be of any suitable material, returns to and passes around a second roller
45 *v*, carried by the slide *s*, and is secured to a transverse bar *d*, the latter being in turn secured to the side rails of the bedstead, by brackets *d'*. The slide *s* is formed at the end toward the foot of the bed with a ledge *u* for
50 supporting a bed pan, is provided with rollers

r that run on track rails *l* on the side rails of the bedstead, and is provided with racks *y* on the under side into which mesh the pinions *z*, on a handled shaft *R*. Pendent arms *g* also project from the slide *s* as a means of moving
55 it. Between the head of the bed and the roller *w*, the web *t* is supported by the transverse boards or slats *b* which are supported on brackets *c*, and the web is further supported by the transverse rods *ee*, which range
60 at each side of the slats *b*.

With this construction when it is desired to use a bed pan, the slide *s* is moved in the direction of the head board from the position shown in Fig. 1 to that shown in Fig. 2, either
65 by turning the handled shaft *R* in the direction of the arrow Fig. 1, or by means of arms *g*, thereby providing an opening as in Fig. 2, about centrally of the bed, below which is the ledge *u* for supporting the bed pan. It will
70 be seen that the web is maintained taut at all times and the patient has substantial support without changing the natural position.

The advantages and convenience of the bed constructed as described, are especially
75 marked in the case of very heavy patients.

In the form shown in Fig. 5 the slide *s'* is alone employed to form a closure of the opening in the bed. Thus, the rollers *r'*, of the slide run on inclined tracks *l'*. The slide in
80 this form moves in an inclined direction, is provided with pusher arms *g'* from which braces *i* extend to the under side of the slide, and is further provided with a ledge *u'*, and the handled operating shaft *R'* having pin-
85 ions *z'* for meshing with the rack of the slide, as in the construction previously described.

At the head of the bed, a mattress *m* is provided, and the space between the mattresses *m* and *a* is partially closed by a water cushion
90 *h'* on a suitable support *k'*, and partially by the upper end of the slide *s'*. In order to prevent the water cushion *h'* or the bed-clothes from being caught between the support *k'* and the slide, transverse rods *o* are provided. The
95 bed-clothes, that is, the sheets and the like, on which the patient lies, are or may be divided transversely to fall at the opening when the movable closure is moved from beneath the patient.

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

5 A bed having a bed bottom or support, including spaced head and foot sections forming an open space ranging transversely of the bed, and a sliding structure forming a central bed bottom section and having a ledge at one end, the bed bottom portion of such structure
10 being normally in the plane of the head and foot sections and movable from such normal position and out of the plane of such head and foot sections by a sliding movement of

said structure, such sliding movement serving further to present the ledge to the opening between the head and foot sections, and a return sliding movement serving to return the central bed bottom section to the normal position in the plane of the head and foot sections, substantially as described. 15 20

In witness whereof I have hereunto set my hand in presence of two witnesses.

JOACHIM EGGERT.

Witnesses:

FRIEDRICH RÜHR,
WILHELM PATAKY.