(No Model.) 2 Sheets—Sheet 1.

C. M. TÜRK.

INVALID BED.

No. 256,176. Patented Apr. 11, 1882.

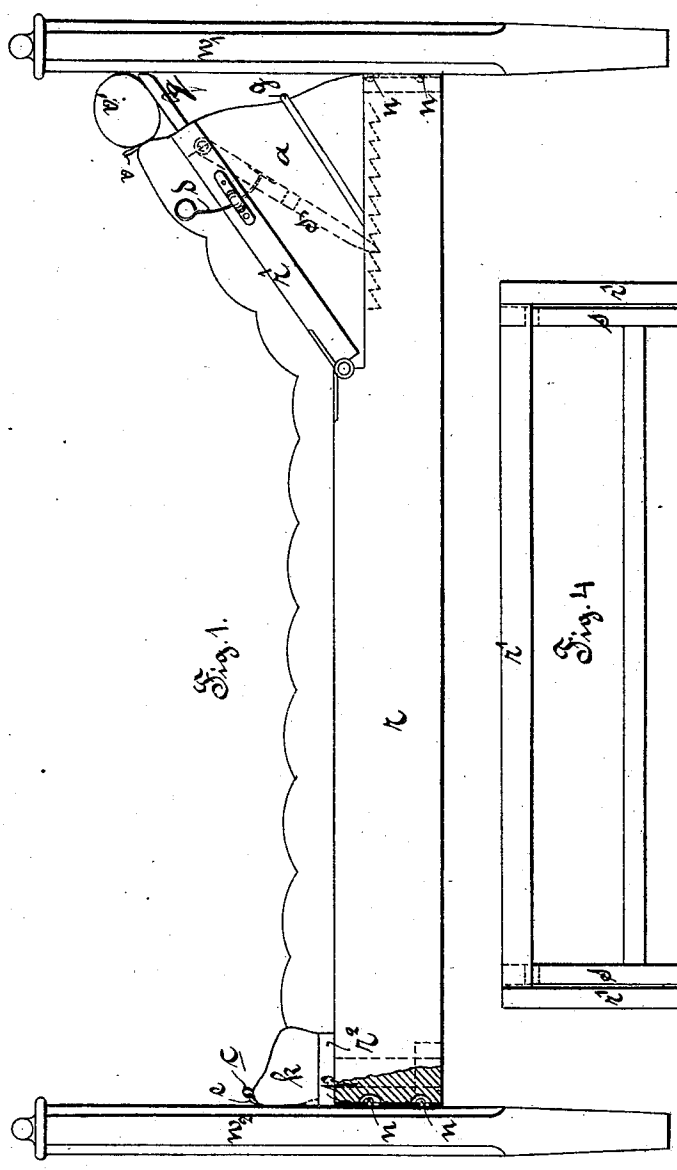


Fig. 1.

Fig. 4.

Fig. 5.

Fig. 3.

Witnesses
John C. Tumbridge
Henry F. Parker.

Inventor
Carl Moritz Türk
by his attorneys
Briesen & Betts

N. PETERS, Photo-Lithographer, Washington, D. C.

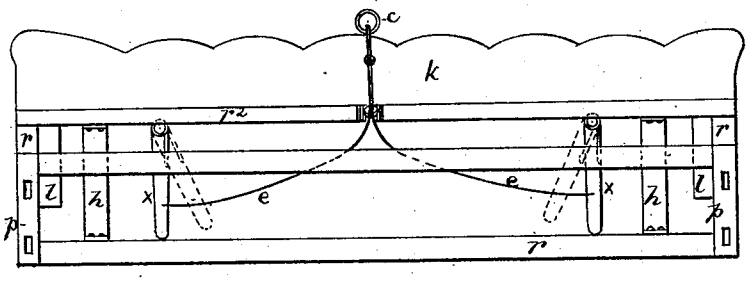
(No Model.) 2 Sheets—Sheet 2.

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Fig: 2.



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UNITED STATES PATENT OFFICE.

CARL MORITZ TÜRK, OF CHEMNITZ, SAXONY, GERMANY, ASSIGNOR TO PAUL-MATTHÉE HERFURTH, OF SAME PLACE.

INVALID-BED.

SPECIFICATION forming part of Letters Patent No. 256,176, dated April 11, 1882.

Application filed January 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, CARL MORITZ TÜRK, of Chemnitz, Saxony, German Empire, have invented a new and Improved Adjustable Mattress, of which the following is a specification.

My invention relates to an improvement in mattresses which enables the same, without further support from underneath, to be easily used as a bedstead by hanging the mattress between a head-board and a foot-board, or between either one of said boards and a wall.

My mattress is especially valuable for invalids, as they can be moved from place to place upon the mattress, and have their position properly adjusted thereon without disturbance and without requiring the mattress to be placed into a bedstead having side rails.

My invention consists in combining the mattress, which is rigidly united to certain side boards, with a peculiar movable head-rest adjusted on said side boards, and with a peculiar foot-rest which can be raised or lowered to any desired inclination.

Figure 1 is a side view of the mattress, showing it to be hung between a head-board and a foot-board, and showing the head-rest in a raised position. Fig. 2 is an end view of the mattress, showing the foot-rest. Fig. 3 is a side view of the mattress, showing the foot-rest and the head-rest in a raised position. Fig. 4 is a plan view of the upper part of the mattress, showing the supporting-frame for raising the head-rest. Fig. 5 is a horizontal section of the lower part of the mattress on the line A B, Fig. 3.

The cushioned body of the mattress is definitely secured in a frame, *r*, which, near the head end, has a hinged section, *r'*, that sustains the head-rest, and that can be raised to any desired inclination, or lowered so as to be level with the upper edge of the frame *r*.

To the free end of the part *r'* are hinged the supports *s s*, which are connected by a cross-rod. When the part *r'* is raised the supports *s s* will drop into suitable ratchet-teeth on the upper edge of the frame *r*, and will then support the part *r'* in the raised position, all as indicated by dotted lines in Figs. 1 and 3. It will be readily understood that by changing the position of the supports *s* upon the ratchets the occupant can change the head-rest from one position to another, or lower it altogether, even when the mattress is not supported in a bedstead.

d is a wire or string, one end of which is attached to the supports *s s* or their brace, while the other looped end of said wire or string extends above the part *r'*. By means of this wire *d* the supports *s s* can be pulled within the part *r'*, as shown in Fig. 4, so that the same can be lowered upon the frame *r*. A triangular bag, (similar to a bellows,) *a*, of cloth or other material, is used to cover the space between the raised frame *r'* and the frame *r*. To prevent this covering *a* from bulging out and getting crowded between the frame *r'* and the head-board when the head-rest is lowered, I attach a rubber band, *g*, to the frame *r* and said covering, as shown. This rubber band, by its tension, will draw the covering beneath the head-rest as soon as the latter is lowered.

The foot-rest *k* at the lower end of the mattress is movable vertically. It is in form of a pillow, *k*, placed upon a board, r^2, to the bottom of which are fastened the legs *l*, which are properly guided by the corners of the frame *r*. The legs *l* are fastened at such a point to the board r^2 that they will move close to the frame *r*, thereby preventing the horizontal displacement of the foot-rest.

To the lower part of the board r^2 are also hinged or pivoted the supports *x x*, which, when the foot-rest is raised, will drop down and rest upon the bottom of the frame *r* and hold the foot-rest in a raised position. (See Fig. 2.)

To prevent the board r^2 being lifted too high, I fasten straps *h*, of leather or other suitable material and of proper length, to the frame *r* and board r^2, all as shown in Fig. 2.

e e are wires or strings which are attached to the supports *x x*, and passing through a hole in the board r^2 are joined by a ring, *c*, above the pillow *k*. When the ring *c* is pulled the supports *x x* will be drawn into the position indicated by dotted lines in Fig. 2, and sliding along the supporting-board of the frame *r* enable the foot-rest to be pressed down as far as the board r^2 will permit.

To use the mattress as part of a bedstead

it is only necessary to hang the same between head-board w' and foot-board w^2, by means of suitable rings or sockets in the frame r, upon hooks n on the two end boards.

One of the end boards may be dispensed with by hanging one end of the mattress upon hooks fastened in the wall.

If it is desired to close the space which remains between the part r' and the head-board w' when the head-rest is raised, a slide, q, may be used in the hinged frame r' and drawn out to support a round cushion, v'.

To facilitate the lifting of the head-rest, I attach a loop, v, to the upper part of the same.

The mattress, when not in the head and foot rests, can still be used as an adjustable bed on the floor or other support, and as a stretcher for the transport of invalids.

I do not claim adjusting the head-rest with the aid of the support furnished by the side rails of a bedstead, when said side rails are not part and parcel of the portable mattress itself.

I claim—

1. In a mattress which is definitely united to side boards, r, which are provided with ratchet-teeth, the combination of said side boards with the hinged frame r', hinged supports s, and adjusting string or wire d, substantially as described.

2. The combination of the frame r, hinged frame r', supports s, and string or wire d with the bagging-cloth a and elastic strap g, substantially as described.

3. The frame r, combined with vertically-movable board r^2, having legs l, and with the cushion k, straps h, braces x, and cords e, for operation substantially as specified.

CARL MORITZ TÜRK.

Witnesses:
R. KNOCH,
N. K. GRIGGS.