

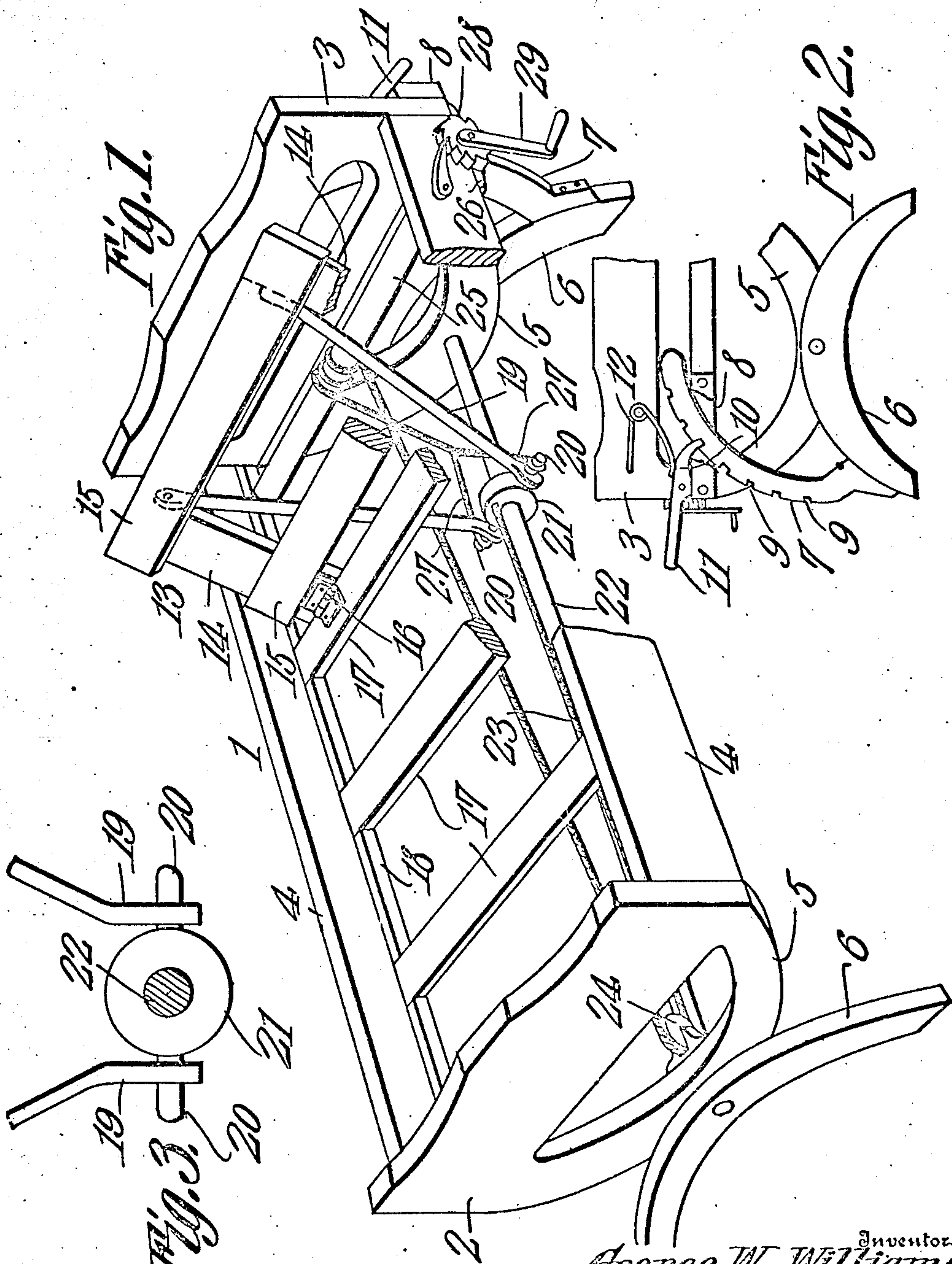
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UNITED STATES PATENT OFFICE.

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No. 895,526.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, GEORGE W. WILLIAMS and CHARLES G. SELBY, citizens of the United States, residing at West Mansfield, in the county of Logan and State of Ohio, have invented a new and useful Bed, of which the following is a specification.

This invention relates to invalid bedsteads so constructed as to enable the occupant of the bed to be moved to an inclined position.

The invention has for its object to provide an improved invalid bedstead by means of which the occupant may be easily raised to and supported in any reclining position desired.

The invention consists in an invalid bedstead, and in details thereof, constructed and arranged as hereinafter described and claimed.

Referring to the drawings:—Figure 1 is a view in perspective of an invalid bedstead constructed in accordance with this invention. Fig. 2 is a detail view of a portion of the end of the bedstead with parts broken away. Fig. 3 is an enlarged detail view of a portion of the adjustable reclining device.

1 indicates the bedstead having a frame-work consisting of a foot board 2, and head board 3 connected together by the side boards 4, and provided with rockers 5, pivoted to suitable supports 6. In order to hold the bed frame in position, and to permit of its adjustment to different inclined positions a suitable device is provided, and as here shown, consisting of a curved bar 7 mounted on one of the supports 6, and projecting through a guide or keeper 8, on the head board 3. The bar 7 has a number of notches 9 with which a pawl 10, pivoted to the headboard 3 is adapted to engage, the pawl 10 having an operating arm 11 projecting from the headboard 3. The pawl 10 is held in engagement with one of the notches 9, by means of a spring 12 secured to headboard 3, and bearing against the pawl 10. It will be seen that by releasing the pawl 10, from engagement with the bar 7, and holding it out of engagement with the notches 9, the bed frame may be rocked on the supports 6, and tipped to any inclined position thereby enabling the occupant of the bed to be turned over in one direction or another according as the bed may be tipped. By means of the notched bar 7, and pawl 10, the bed frame may be held in any adjusted position.

In addition to the means for enabling the occupant of the bed to be turned over, a device is provided for moving the occupant of the bed to an inclined position, and supporting the person in such position as shown. The device consists of a head rest 13, formed with side bars or strips 14, on which are mounted transverse slats 15 having their ends projecting beyond the side bars 14. The side bars 14 are connected by means of hinges 16 to one of the bedstead slats 17, which rest in the strips 18, on the side boards 4. When the head rest 13 is flat, or in its lowest position the projecting ends of the transverse slats 15 rest on the strips 18. In order to raise the head rest 13, and support it in adjusted inclined position, a suitable mechanism is provided as follows. The head rest 13 has fixed to its outer end downwardly inclined supporting arms, or rods 19, pivoted at their lower ends to lateral arms, or projections 20, on a disk 21, slidably mounted on a rod 22 extending lengthwise of the bed frame, and through the rockers 5, and supports 6, and serving as the pivotal supports for the rockers 5.

The head rest 13 is raised and lowered to adjusted inclined position by means of the following mechanism. A cord 23 is secured at one end to the disk 21, and extends to and over a pulley 24, mounted on one of the rockers 5, at the foot of the bed, and from thence to a rotary shaft or roller 25 mounted in brackets 26 on the side boards 4, at the head of the bed. The cord 23 is carried around the roller 25, with a few turns and then extends to the disk 21, where it is secured to the arms 20 by means of its branching ends 27. One of the ends of the rotary shaft 25, projects from the sideboard 4, and has mounted thereon a ratchet wheel 28, operated by a crank handle 29. A pawl 30 pivoted on the side board 4 engages the ratchet wheel 28 and holds it from turning backwards. To raise the head rest 13, and hold it in adjusted inclined position the shaft 25 is turned by means of handle 29, which causes the cord 22 to wind up on the shaft, and draw the disk 21, on the rod 22 towards the head of the bed, the cord 23, also unwinding to permit the disk 21 to move forward. As the disk 21 moves forward, the arms 19, pivotally connected thereto cause the headrest 13 to be raised to an inclined position, and when the desired inclined position is obtained, the pawl 30 holds the ratchet wheel 28 from turn-

ing backward, and the headrest 13 is held in inclined adjusted position. By releasing the pawl 30, from engagement with wheel 28 the shaft may be rotated backwards and the opposite movement of disk 21 on rod 22 takes place, causing the head rest 13 to be lowered. It will thus be seen that by tipping the bed from side to side the turning of a patient in bed can be easily and readily accomplished.

10 The patient can be easily and readily raised and lowered to any inclined position desired, and supported therein by means of the hinged adjustable head rest.

Having described the invention, we claim:—

15 1. A bedstead having a longitudinal rod mounted beneath the bed; a support slidably mounted on said rod; a hinged head rest with supporting arms pivoted to said slidable support; a rotary shaft, means for operating and locking said shaft; and a traction
20 cord, extending over a pulley, wound around

said rotary shaft and having its ends secured to the slidable support.

2. A bedstead having a longitudinal rod mounted therein, a support slidably mounted on said rod, a hinged head rest, with supporting arms pivoted to said slidable support; an operating shaft and crank with ratchet and pawl at the head of the bedstead; and a traction cord connected at one end to the slidable support, extending over a pulley at the foot of the bedstead; from thence to the operating shaft, and about the same to the slidable support to which it is connected.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

GEORGE W. WILLIAMS.
CHARLES G. SELBY.

Witnesses:

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