

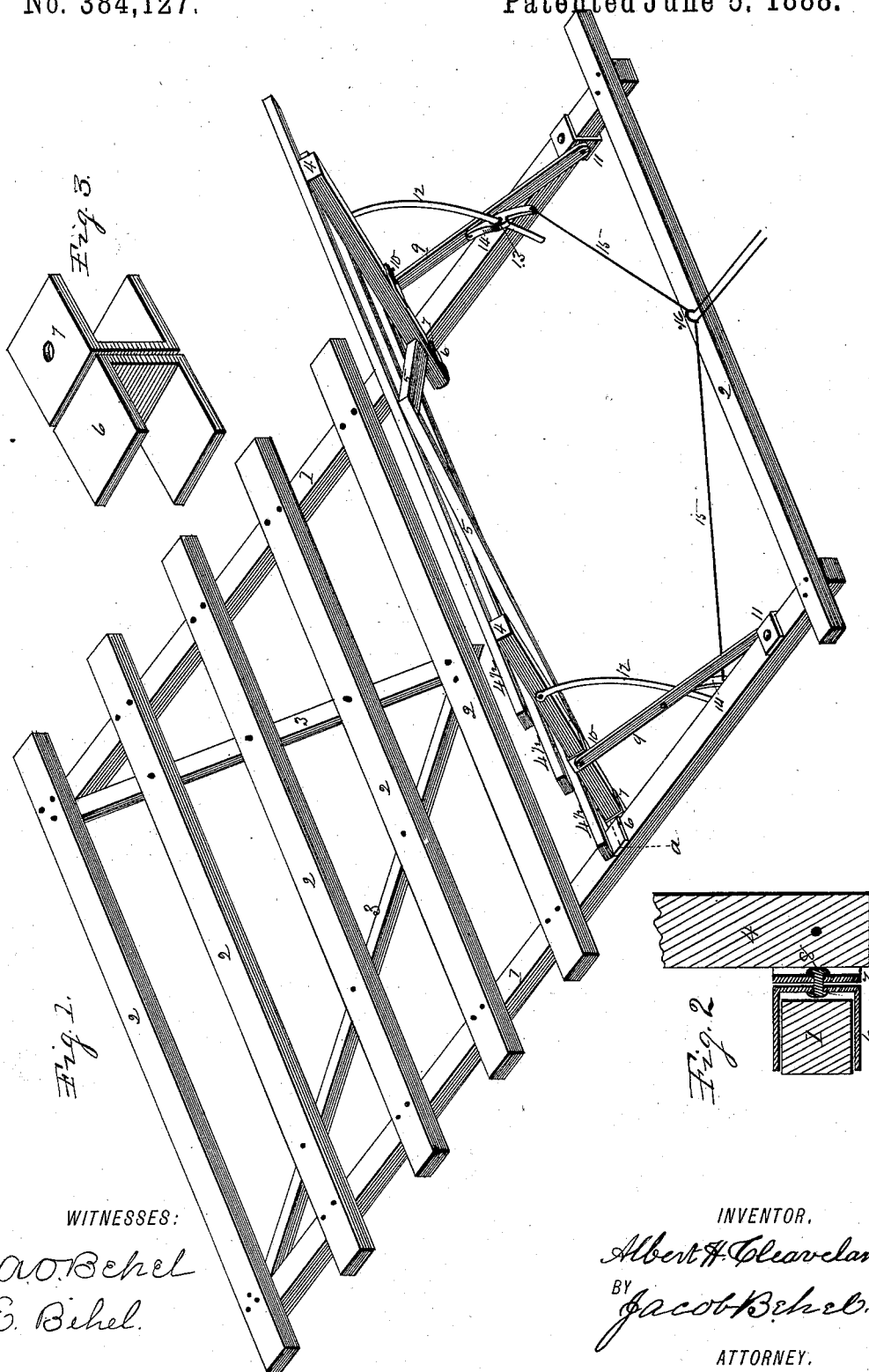
(No Model.)

A. H. CLEAVELAND.

BED BOTTOM.

No. 384,127.

Patented June 5, 1888.



WITNESSES:

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ALBERT H. CLEAVELAND, OF BELVIDERE, ILLINOIS.

BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 384,127, dated June 5, 1888.

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To all whom it may concern:

Be it known that I, ALBERT H. CLEAVELAND, a citizen of the United States, residing in the city of Belvidere, county of Boone, and State of Illinois, have invented certain new and useful Improvements in Bed-Bottoms, of which the following is a specification.

This invention relates to a class of beds known as the "invalid-bed." Its object is to produce a bed having a head portion capable of an upward inclined adjustment.

In the accompanying drawings, Figure 1 is an isometrical representation of my improved bed-bottom. Fig. 2 is a section on dotted line *a* on Fig. 1. Fig. 3 is an isometrical representation of the double clasp employed to connect the head portion with the main portion.

The main frame of my improved bed-bottom consists of side rails, 1, and transverse slats 2, fixed to the side rails at proper intervals to form a support for a mattress or bed placed thereon, and diagonal braces 3, fixed to the under face of the transverse slats and connected at their foot ends to the side rails, serve to hold the parts in position. The side bars, 4, of the adjustable head portion of the bed-bottom are held in their separated position by slats 4 $\frac{1}{2}$, fixed thereto at proper intervals. Diagonal braces 5, fixed to the under face of the slats and at their foot ends to the side bars, 4, serve to hold the parts in position. The adjustable head has a sliding connection with the side rails, 1, by means of a double-clasp connection consisting of the sliding clasp 6, which spans the side rails, 1, and the clasp 7, secured to the end of the side bars, 4, of the head portion. These clasps 6 and 7 have a swivel-connection by means of a rivet, 8, in such a manner that the head portion in rising will slide the clasp 6 on the side rails, 1, in the lengthwise direction thereof. Braces 9 have a pivotal-clasp connection, 10, at their inner ends with the side bars, 4, of the adjustable head portion toward their inner ends, and the outer ends of these braces 9 have a like pivotal-clasp connection, 11, with the head-end portion of the side rails, 1, in both of which the clasps employed in the pivotal connection of the brace span the side rails and side bars, and are fixed thereto by screws or bolts passed through the parts. In this connection of the adjustable head portion

with the main frame the vertical movement of its head end will cause its foot-end portion to slide lengthwise of the side rails by means of its swivel-clasp connection therewith, and the brace 9 in its pivotal connection with the parts serves to give position to the adjustable head portion in its vertical adjustments.

Segment-braces 12 are pivoted at their upper ends to the side bars, 4, of the adjustable head portion. These segment-braces pass through openings 13, formed in gyves 14, which are pivoted at one end to the braces in such a manner that the downward tendency of the adjustable head-end portion will cause the gyves to cramp the segment-brace and hold the adjustable head portion at any elevation within the range of the device, thus forming a swinging friction-clutch. The free ends of the gyves 14 are curved downward, and their extreme ends are perforated to receive a cord, 15, which is passed through a loop, 16, on the head-end slat of the main frame.

It will be seen by the foregoing description, and as illustrated in the drawings, that by raising the head portion of my improved bed it will stand at any angle within the range of its movements by the segment-braces engaging the pivoted gyves, and, as more weight is placed on the head portion, the firmer it will be held in its adjusted position; and when it is desired to lower the head portion a pull on the cord will raise the gyves, which will permit the segment-braces to descend through the openings in the gyves, and the head portion will assume a position on a level with the main portion of the bed-bottom.

I claim as my invention—

1. In combination, a bottom frame, an adjustable head-section, bars loosely connected to the head-section and bottom frame, a segment-brace to support the adjustable head-section at the desired angle, and a vibrating friction-clutch pivotally secured to the said bars, the said friction-clutch consisting, essentially, of an arm provided with an aperture the opposite edges of which bite the opposite edges of the segment-brace when the clutch is allowed to swing freely on its support, substantially as set forth.

2. The combination of a main portion, an adjustable head portion having a sliding connection therewith, a brace connecting the

main and head portions, a friction-clutch piv-
oted to said brace, and a segment-brace con-
necting the friction-clutch and the adjustable
head portion, substantially as and for the pur-
5 pose set forth.

3. The combination of a main portion, an
adjustable head portion having a sliding con-
nection therewith, a brace connecting the main
frame and head portion, a friction-clutch piv-
10 oted to said brace, a segment-brace connect-

ing the friction-clutch and the head portion,
and a cord connected to the friction-clutch for
the purpose of releasing it from its engage-
ment with the segment-brace, substantially as
and for the purpose set forth.

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Witnesses:

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