

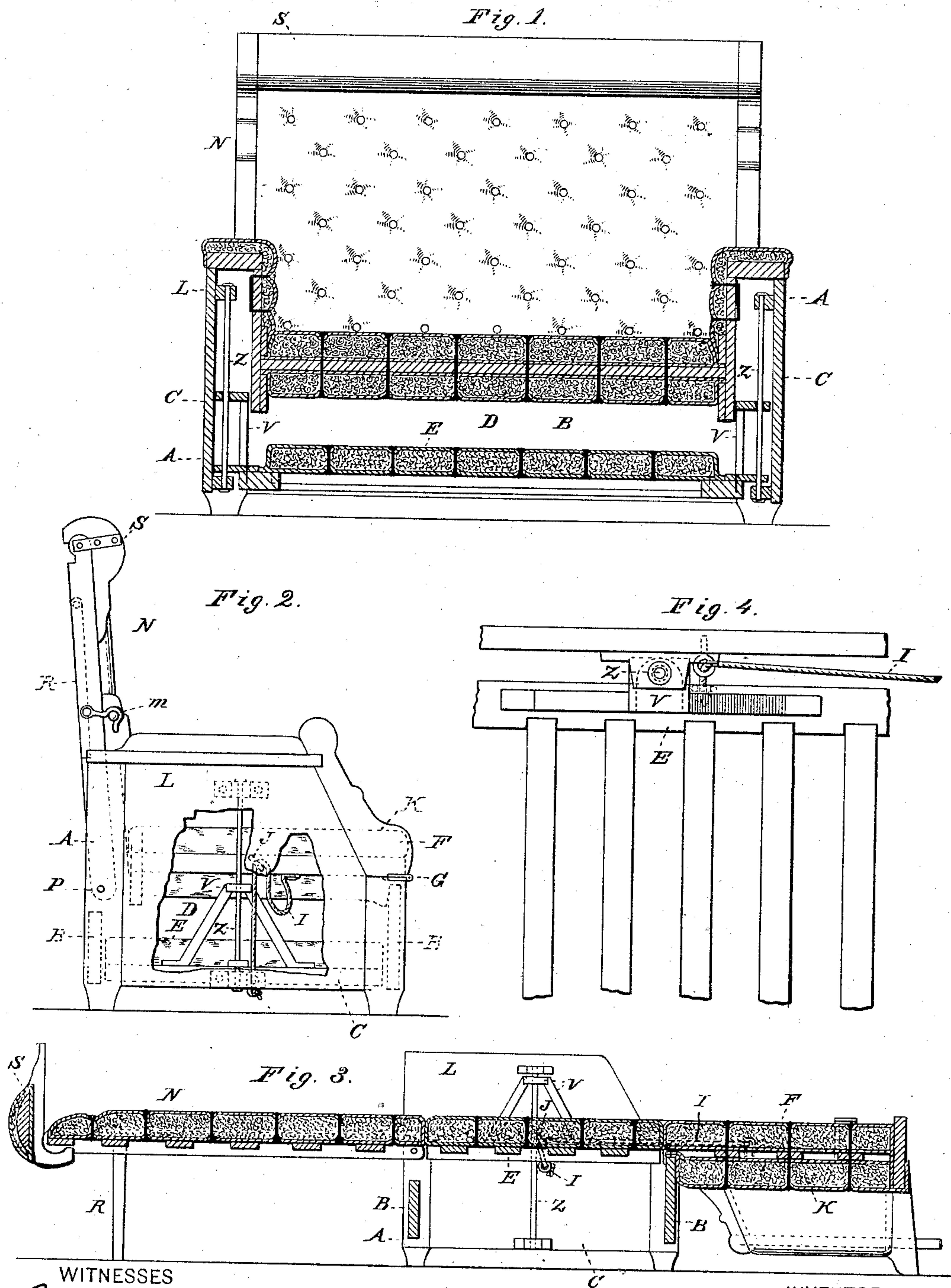
(No Model.)

A. S. BURNHAM.

FOLDING BED.

No. 324,748.

Patented Aug. 18, 1885.



WITNESSES

Villette Anderson.
Grace M. Craig

INVENTOR

A. S. Burnham,
by Anderson & Smith
his ATTORNEYS

UNITED STATES PATENT OFFICE.

ALFRED SANFORD BURNHAM, OF PARKERSBURG, IOWA.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 324,748, dated August 18, 1835.

Application filed March 7, 1885. (No model.)

To all whom it may concern:

Be it known that I, ALFRED S. BURNHAM, a citizen of the United States, residing at Parkersburg, in the county of Butler and State of Iowa, have invented certain new and useful Improvements in Folding Beds; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation
15 of this invention, and is a vertical longitudinal section as folded for a sofa. Fig. 2 is an end view, and is partly broken away. Fig. 3 is a vertical longitudinal section as unfolded for a bed. Fig. 4 is a detail view.

20 This invention has relation to folding beds; and it consists in the construction and novel arrangement of devices, all as hereinafter set forth, and pointed out in the appended claims.

In the accompanying drawings the inven-
25 tion is illustrated in the form of a sofa-bed.

The letter A designates the main supporting-frame, which is of rectangular form and open between its side walls, B B, and end walls, C C, as indicated at D, this opening being de-
30 signed to receive the vertically-moving middle portion, E, of the bed, and to provide room for its descent during the folding operation.

F indicates the front or seat portion or section, which is hinged at G in front, and is de-
35 signed to open forward. This portion is usually upholstered both on its top and bottom. When unfolded, its bed-surface is uppermost, and when folded the seat surface K is presented. When folded, the frame of this
40 front or seat portion rests on the main frame A, between the upwardly-projecting arms L, with which said main frame is usually provided.

N represents the back portion or section of
45 the folding bed, which is hinged to the rear of the main frame, as indicated at P. When unfolded and in horizontal position, this portion extends in rear of the main frame and is supported at its outer edge by folding supports
50 R. This rear portion is usually arranged to fold forward in position against the arms L,

so as to present a back for a sofa. Hooks or catches *m* are provided to hold the back in position when raised.

S represents a folding edge cushion with
55 which the back portion, N, may be provided. When unfolded, the edge cushion may be turned up in vertical position, forming a head wall or guard adapted to keep off drafts of air and to prevent the pillows from slipping off
60 the end of the bed.

The middle portion or section, E, of the bed extends transversely between the front and rear portions, and is provided with guide-
65 bearings V, which engage vertical guides Z of the main frame and serve to preserve the level position. To the middle portion are attached cords or chains I, which pass over pulleys or bearings J, and are attached by their outer ends to the frame of the front portion, F.
70 Movement of the middle portion, E, is therefore in this construction governed by the movement of the front portion. When the front portion is unfolded, the middle portion is raised to the top of the boxing until its
75 surface is level with the bed-surface of the front portion. When, however, the front portion is folded back, the middle portion descends into its boxing out of the way. When the bed is unfolded, the portion E extends
80 transversely across the middle, and the parts F and N form the head and foot portions.

When the bed is not desired, the bedclothes are folded upon the top of the middle section, and then, as the front portion is folded the
85 middle part descends with the bedclothes, so that a receptacle is provided therefor by the bed itself.

I am aware that a convertible bed-lounge is not new, the bed-bottom being formed in
90 hinged sections and the frame recessed vertically, or provided with a receptacle for the said bottom when folded together, the middle section of the bed being connected with the frame by means of parallel moving arms,
95 so that it may be raised and lowered within the said receptacle when the head and foot sections of the bottom are thrown out, and therefore do not claim such devices, broadly.

Having described this invention, what I
100 claim, and desire to secure by Letters Patent, is—

1. In a folding bed, the combination, with a supporting-frame having hinged front and back sections, of a reciprocating middle section engaging vertical guides, whereby it is
5 kept in level position, substantially as specified.

2. In a folding bed, the combination, with hinged foot and head sections, of a vertically-reciprocating middle portion rising and fall-
10 ing in a main frame to which said foot and head sections are hinged, and the connecting-cords whereby the movements of the middle portion are governed, substantially as specified.

15 3. A sofa-bed consisting of an open supporting-frame having the hinged front and back sections and the reciprocating middle

section, and engaging vertical guides of the main frame, and operated by flexible connections extending to the front section, substan- 20 tially as specified.

4. The combination, with the main supporting-frame and the portion F hinged thereto, of the vertically-reciprocating portion E in the opening of the main frame, and engaging 25 vertical guides thereof, and the connecting-cords I, substantially as specified.

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

ALFRED SANFORD BURNHAM.

Witnesses:

J. D. OWEN,

R. G. BUSHEY.