

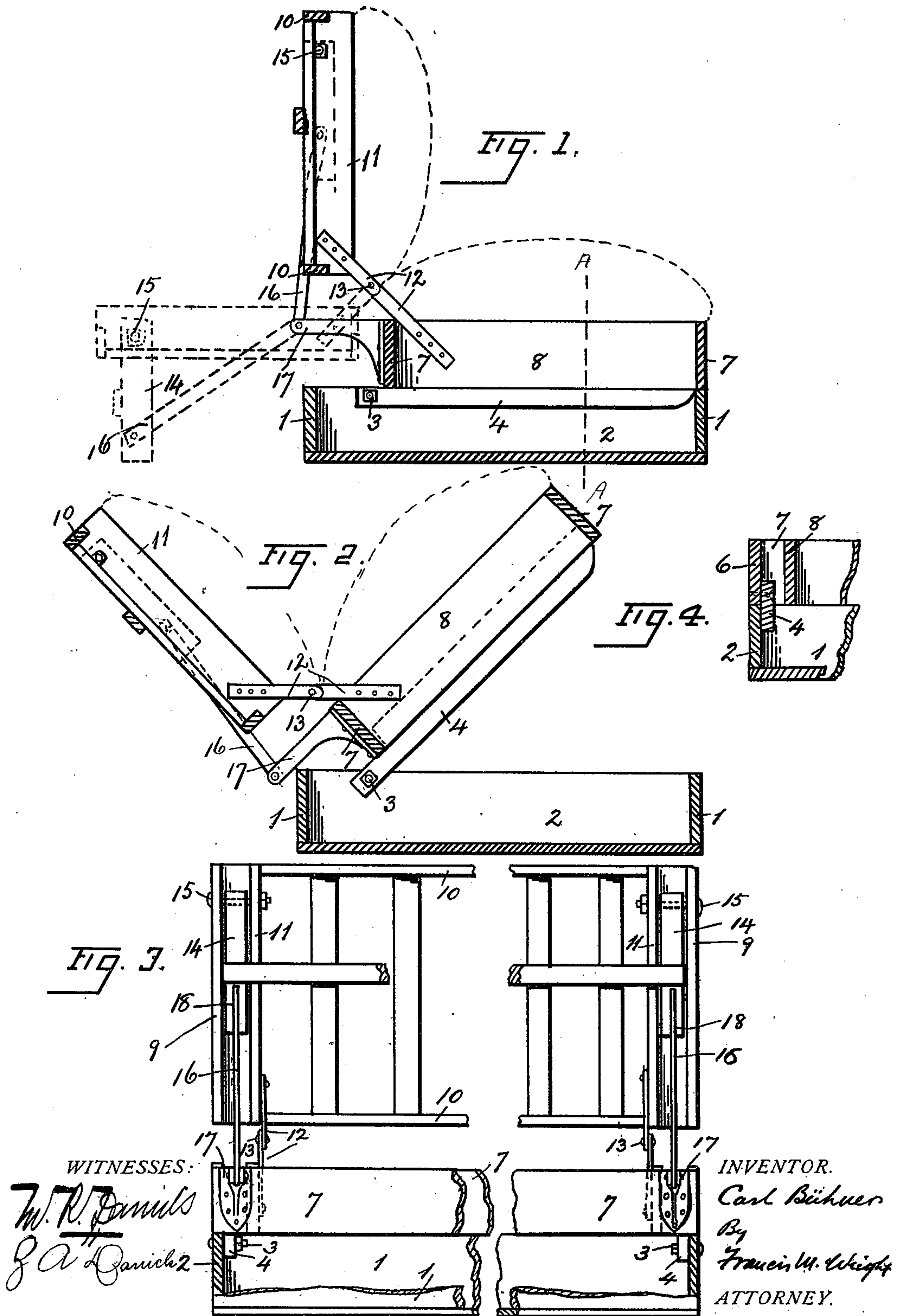
No. 671,906.

Patented Apr. 9, 1901.

C. BÜHNER.
BOX SOFA BED.

(Application filed Aug. 8, 1900.)

(No Model.)



UNITED STATES PATENT OFFICE.

CARL BÜHNER, OF SAN FRANCISCO, CALIFORNIA.

BOX SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 671,906, dated April 9, 1901.

Application filed August 8, 1900. Serial No. 26,274. (No model.)

To all whom it may concern:

Be it known that I, CARL BÜHNER, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Box Sofa-Beds, of which the following is a specification.

My invention relates to improvements in box sofa-beds, the object of my invention being to provide a box sofa-bed which can be opened with ease and will remain open without the use of straps such as have heretofore been commonly used.

My invention therefore resides in the novel construction, combination, and arrangement of parts hereinafter fully specified, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a transverse section of the sofa-bed, showing the same when the box is closed, the position of the parts when used for a bed being shown in dotted lines. Fig. 2 is a similar view showing the same when the box is opened. Fig. 3 is a rear view of the frame of the sofa-bed, and Fig. 4 is a vertical section on the line A A of Fig. 1.

Referring to the drawings, 1 represents the sides, and 2 the ends, of the box of my improved sofa-bed. To the ends 2 are pivoted, by means of pivot-bolts 3, the swinging arms 4, which are secured to the end pieces 6 of the cover-frame, said frame comprising said end pieces 6, side pieces 7, and cross-pieces 8, extending between the side pieces 7 near to and parallel with the end pieces 6. The back-frame likewise comprises the end pieces 9, side pieces 10, and cross-pieces 11, and to the cross-pieces 8 and 11 at each end are rigidly secured arms 12, pivoted together at 13. By this means the back-frame is permitted to swing on the cover-frame from the position shown in full lines in Fig. 1, when the article is used as a sofa or couch, to that shown in dotted lines when it is used as a bed. To support the back when it is thus brought into the same plane as the cover to form a bed, there are provided legs 14, hinged at 15 and connected by braces 16 with brackets 17, secured on the rear side piece 7 of the cover-frame, said legs being slit, as shown at 18, to receive the braces 16.

The pivots 3 are in front of the rear side of the box and at a distance therefrom, and the frame of the back is supported by said pivots rearwardly thereof, so as to counterbalance the weight of the seat or cover of the box. This construction makes the cover easy to lift when it is required to place articles in the box or remove the same therefrom. Moreover, when the cover is raised the brackets 17 rest upon the upper edge of the rear side 1 of the box and form stops to support the same in the raised position without the necessity of straps. In this position the back-frame is prevented from falling into the same plane as the cover-frame by the construction and arrangement of the legs 14 and braces 16, the three pivots of the legs and braces to the back-frame and cover-frame, respectively, and to each other being out of alinement when the back is raised. When the back is so raised into a position substantially perpendicular to the cover-frame, the pivot of the leg and brace comes in front of the pivots of said leg and brace to the back-frame and cover-frame, respectively, and the back cannot be lowered until the first pivot has passed to the rear of the line joining the latter two pivots.

I claim—

1. In a box sofa-bed, the combination, with the box, of a cover-frame, arms secured thereto and extending rearwardly therefrom, and pivoted at their rear ends to the box-frame in front of the rear side thereof and at points distant from said rear side, a back-frame, arms rigidly secured to the back-frame and cover-frame and pivotally connected to each other, brackets extending from the cover-frame rearwardly over the rear side of the box-frame, legs pivotally attached to the back-frame and braces pivotally connecting said legs and brackets, the pivots of the braces to the legs being in front of the lines through the pivots of the legs to the back and the braces to the brackets, when the back is fully elevated, substantially as described.

2. In a box sofa-bed, the combination, with the box of a cover-frame pivoted on the box on a pivoted axis in front of and distant from the rear edge of the box, a back-frame pivotally connected to the cover-frame, brackets extending from the cover-frame rearwardly over the rear edge of the box and arranged

to abut against said rear edge when the cover-frame is raised to form a stop and support, legs pivotally attached to the back-frame, and braces pivotally connecting said legs and
5 brackets, the pivots of the braces to the legs being in front of the lines through the pivots of the legs to the back and the braces to the brackets, when the back is fully elevated, substantially as described.

10 3. The combination with a box, of a cover-frame pivoted on the box on a pivotal axis in front of and distant from the rear edge of the box, a back-frame secured to the cover-frame,

and a stop or support extending from the cover-frame rearwardly over the rear edge of 15 the box and arranged to abut against said rear edge when the cover-frame is raised and support the cover-frame against further rotary movement, substantially as described.

In witness whereof I have hereunto set my 20 hand in the presence of two subscribing witnesses.

CARL BÜHNER.

Witnesses:

FRANCIS M. WRIGHT,
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