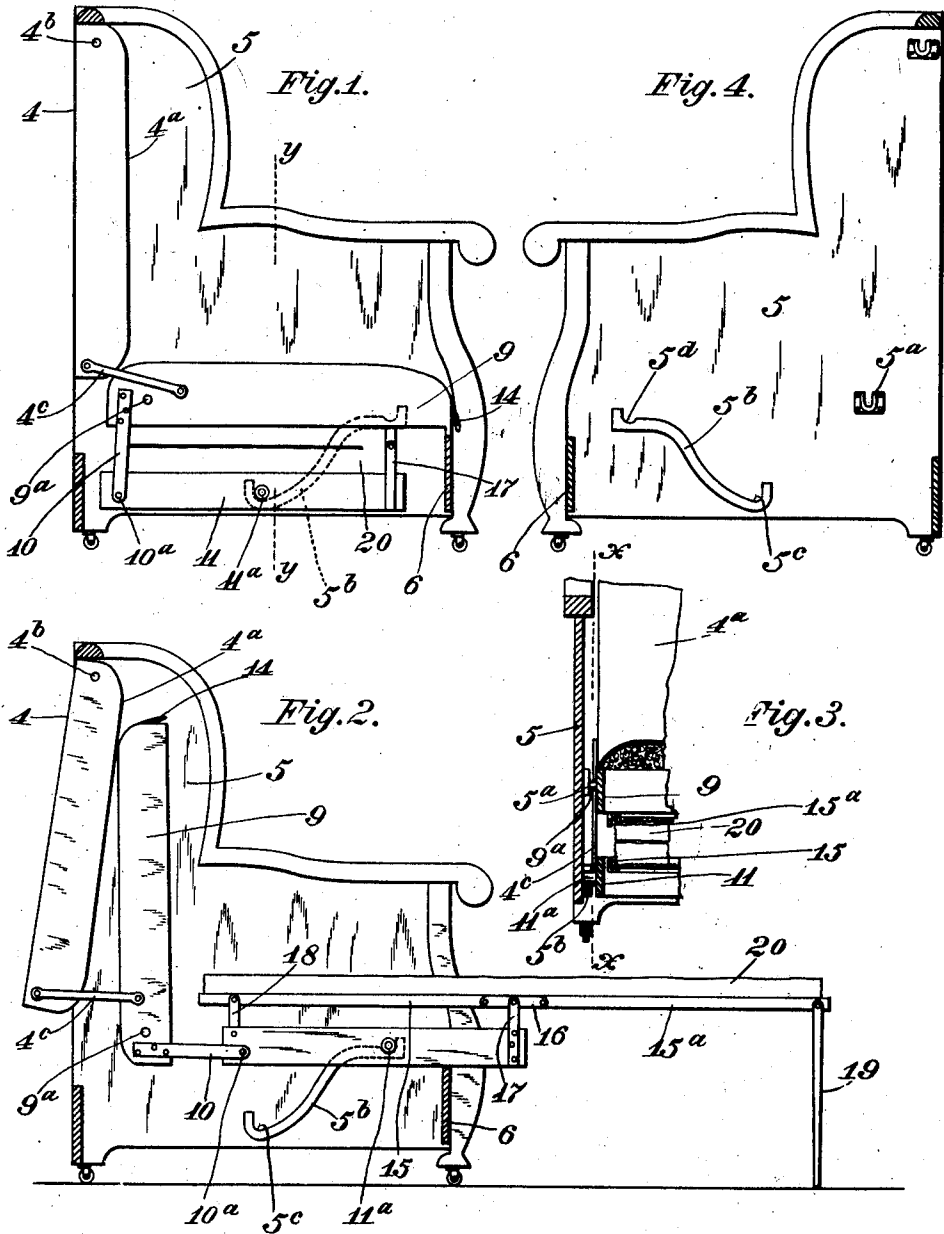


E. M. HULSE & J. G. CURTIS.
SOFA OR DAVENPORT BED.
APPLICATION FILED JUNE 30, 1909.

1,057,242.

Patented Mar. 25, 1913.



Witnesses
Benj. Finkel
M. McCarthy

Inventors
Edwin M. Hulse
James G. Curtis
by Finkel Finkel
Attorneys

UNITED STATES PATENT OFFICE.

EDWIN M. HULSE AND JAMES G. CURTIS, OF COLUMBUS, OHIO, ASSIGNORS TO THE
E. M. HULSE COMPANY, OF COLUMBUS, OHIO, A CORPORATION OF OHIO.

SOFA OR DAVENPORT BED.

1,057,242.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed June 30, 1909. Serial No. 505,165.

To all whom it may concern:

Be it known that we, EDWIN M. HULSE and JAMES G. CURTIS, citizens of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Sofa or Davenport Beds, of which the following is a specification.

The object of this invention is to provide an improved sofa or davenport bed in which the bed box or frame is thrown into position for use as a bed by manipulating the seat, and conversely in which the bed is thrown under the seat by manipulating the seat in the reverse direction.

The invention is embodied in the construction herein shown and described; the invention not being confined in its practical embodiment to precisely the forms of the parts shown.

In the accompanying drawings: Figure 1 is a view in vertical section at the left hand end of the davenport bed with the end member removed, as on the line $x-x$, Fig. 3, and showing the bed folded in under the seat; Fig. 2 is a similar view showing the seat raised and the bed extended; Fig. 3 is a fragmentary longitudinal section on the line $y-y$, Fig. 1, looking toward the rear of the structure, and Fig. 4 is an elevation with parts in section of the inner side of the left hand end of the structure to show the parts thereon.

The davenport frame comprises a back 4, upholstered as seen at 4^a, and ends like that indicated at 5; as usual, secured to permanent portions of the back. In the present case, the forward portions of the ends 5 are tied together and braced by the usual permanent front rail 6.

The inner side of each of the ends is provided with a metallic piece, as seen at 5^a, and a wooden part 5^b, the former being a bearing for the corresponding pivot member of the seat, and the latter being an inclined track upon which travels and is supported the forward portion of the bed box or frame 11, as hereinafter more particularly described. These bearings and tracks on the two ends are correspondingly arranged; and the tracks 5^b are of hook form, as seen at 5^c, at their lower ends to afford seats or resting places for the studs of the bed-box or frame when the latter is under the seat; and said tracks at their upper ends are made

with slight depressions 5^d to afford seats for the bed-box studs when the bed-box is projected from under the seat and to the bed forming position to aid in preventing the collapse of the seat and bed-box or frame. 60

The box or frame 11 has at each end suitable roller studs 11^a to travel on the tracks 5^b and rest in the seats thereof. The character 9 designates the seat, and this has on each of its ends near the rear corners thereof a stud journal 9^a to rock in the bearings 5^a so that the seat is capable of being raised and lowered by manually taking hold of its front edge. Rigidly secured to each end of the seat in rear of the journals 9^a are arms 10, said arms being hingedly connected at 10^a to the ends of the bed-containing box near its rear portion, or so that by raising the seat the said bed-box is thrown forward and upward. The movement of the arms 10 75 and the form of the tracks 5^b cooperate in raising and placing the bed-box or frame in elevated horizontal position, that position being obtained when the back has been thrown to slightly inclined position rearwardly. The lowering of the bed-box or frame is effected by depressing the seat to normal position. The depressed or closed position of the parts is shown in Fig. 1 while the extreme upward and forward or 85 open position of the parts is shown in Fig. 2. 14 designates a convenient strap for manipulating the seat to raise and lower it.

The back 4 in the present instance is hung between the ends 5 on suitable pivots 4^b at their upper portions so as to be capable of oscillation and the seat and back are connected by means of bars like that indicated at 4^c pivoted to both so that the lower portion of the back is moved rearward when the seat is raised, and drawn forward into normal position when the seat is lowered, as indicated in Figs. 2 and 1 respectively.

The spring bed shown is comprised of two bed members 15 and 15^a, connected at their sides by links like that indicated at 16; and stretched between said frame is any suitable foldable spring fabric. The spring bed is supported on the box 11 by standards 17 on the sides of the box 11 near its forward corners, the links 16 being pivotally connected to said standards by pins, as seen at 16^a. The inner bed member 15 is connected to the inner sides of the ends of the box 11 by links 18, and the outer bed member 15 is sup- 110

ported when extended by suitable legs, as at 19, foldingly hinged to said member.

20 designates the mattress.

When the bed members 15 and 15^a and 5 mattress are folded, the bed member 15 is somewhat depressed from the position it occupies in Fig. 2, by reason of the action of the links 16 and 18.

We do not desire to claim herein anything 10 that may be claimable in the application of Edwin M. Hulse, filed May 10, 1909, S. No. 495,063.

What we claim is:

1. In a sofa or davenport bed, the com- 15 bination with a main frame provided with inclined tracks at its ends, a bed-box or frame supported on said tracks, a seat pivoted at its rear edge to swing upwardly independently of the bed-box or frame, and 20 means between the rear of the seat and the bed-box or frame whereby the bed-box or frame is moved upward and forward and maintained in substantially a horizontal position with its bed side uppermost during 25 said movements.

2. In a sofa or davenport bed, the combination with a main frame, a bed containing 30 frame, a seat pivoted to swing upwardly independently of the bed containing frame, an inclined track on which the bed containing frame is supported at its forward portion,

and means connecting the bed containing frame and the seat operative by the seat whereby the bed containing frame is moved upward and forward and maintained in a 35 substantially horizontal position with its bed side uppermost during said movements.

3. In a sofa or davenport bed, the combination with the main frame, of a seat 40 pivoted therein, and a movable back, a frame or box to support a bed, means between the seat and the bed-box or frame whereby the latter can be projected forward and upward by raising the seat, and means 45 whereby the back is moved rearward by raising the seat.

4. In a sofa or davenport bed, the combination with the main frame, of a seat 50 pivoted therein and a back pivotally hung therein, a frame or box to support a bed, means between the seat and the bed-box or frame whereby the seat and the bed-box or frame can be projected forward and upward by raising the seat, and means on the seat 55 for moving the lower portion of the back rearward when the seat is raised.

EDWIN M. HULSE.
JAMES G. CURTIS.

Witnesses:

BENJAMIN FINCKEL,
M. M. MCCARTHY.