

F. E. FERGUSON & C. A. KNOCHE.
DAVENPORT.

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944,023.

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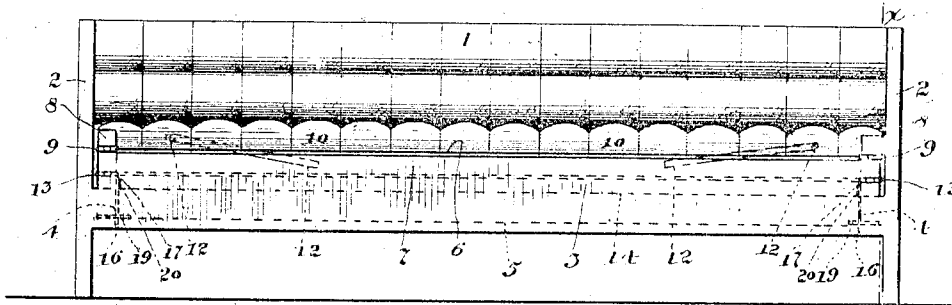


Fig. 1.

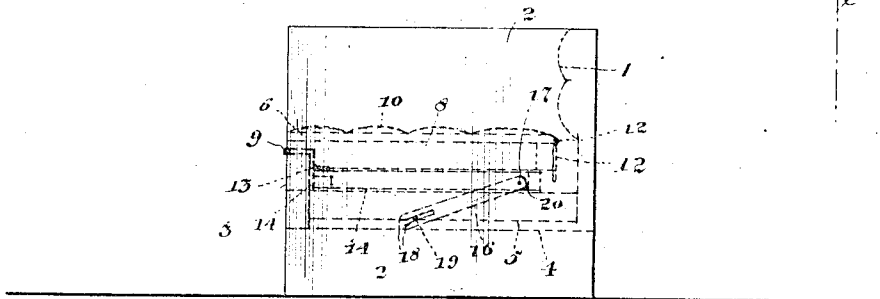


Fig. 2.

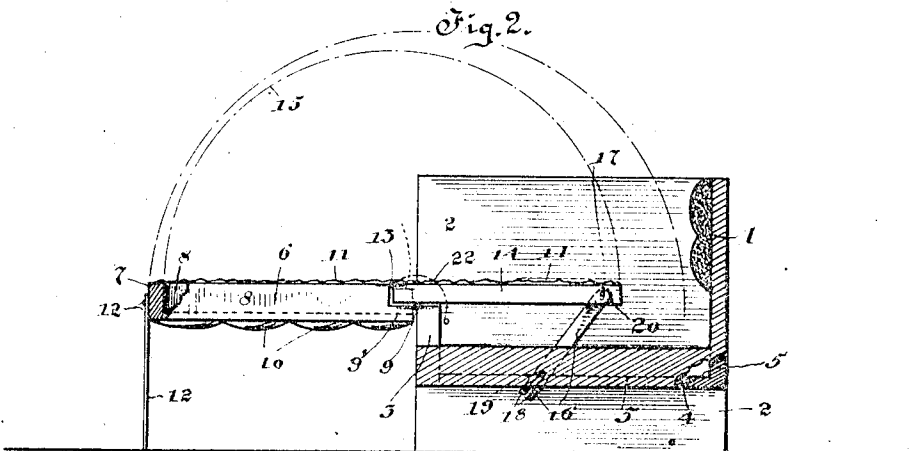


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

FRED EUGENE FERGUSON AND CHARLES A. KNOCHÉ, OF NAPERVILLE, ILLINOIS.

DAVENPORT.

944,023.

Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed May 3, 1909. Serial No. 493,687.

To all whom it may concern:

Be it known that we, FRED E. FERGUSON and CHARLES A. KNOCHÉ, citizens of the United States, and residents of the city of Naperville, county of Dupage, and State of Illinois, have invented certain new and useful Improvements in Davenports, of which the following is a specification.

Our invention relates to improvements in davenports or combined beds and couches, the object of the invention being to provide a simple and inexpensive device of this character which may be quickly and conveniently converted from a couch into a bed or vice versa.

A further object of our invention is to provide a double hinge construction in the folding parts of the device whereby the same is easily operated, and a further object is to provide a bed spring arranged separate from the couch upholstery, thus avoiding injury to the latter when the device is used for a bed.

Other objects will appear hereinafter.

With these objects in view our invention consists in the novel construction and arrangement of parts as will be hereinafter fully described and particularly pointed out in the appended claims.

Our invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a front elevation of our improved davenport in its preferred form, Fig. 2 is an end elevation thereof, and Fig. 3 is a transverse section taken on line *x x* of Fig. 1.

Referring now to the drawings 1 designates the upholstered back of the device and 2 the rectangular end portion thereof rigidly secured to said back and to a front member 3 provided in the device, an inwardly projecting supporting member 4 being provided on said end portions. A bottom 5 rigidly secured to the back 1 and to the members 2, 3 and 4 is provided, on which bed clothes may be placed when the device is used as a couch. Hinged to the front member 3 is a seat frame 6 comprising a longitudinal member 7 and end members 8 secured at right angles thereto, the hinges 9 being secured to the reduced portions 9' of the members 8 and to the member 3. To one side of the seat frame 6 upholstery 10 is secured, and to the other side thereof approximately one-

half of a wire bed spring 11 of any suitable construction may be fastened. Swinging legs 12 are pivoted to the member 7 adjacent the ends thereof, the same being adapted to support the seat frame 6, as shown in Fig. 3, when the device is used as a bed, and to be turned into the position as shown in Figs. 1 and 2 when the device is used as a couch.

Hingedly connected to the members 8 by means of the hinges 13 is a rectangular frame 14 to which approximately one-half of the bed spring 11 is fastened, said frame being adapted to fold, as indicated by dotted lines 15, onto the seat frame 6, and said bed spring being flexible and adapted to fold with the frame 14. Access to the bed clothing on the bottom 5 is thus provided.

Obliquely disposed swinging arms 16 pivoted at each end of the frame 14 by means of the pins 17 are adapted to support one edge of said frame, as shown in Fig. 3, the bifurcated ends 18 being adapted to engage the pins 19 which are secured in the members 4. It is obvious that when the frame 14 is turned over to provide access to the bed clothes that the arms 16 and the pins 19 will disengage, hence it becomes necessary to hold said arms so that they will reengage these pins when said frame is turned back into the normal position. Pins 20 are therefore provided which are secured in the frame 14 to serve as a stop to the rotative movement of said arms. Gravity will obviously hold the arms 16 in engagement with the pins 20 just previous to their engagement with the pins 19. These arms are considered to be an important feature of our invention, since they are simple of construction and automatic in their action, the advantage of the obliqueness of the arms being readily seen when the lowest position, shown in dotted lines in Fig. 2, and the elevated position, shown in Fig. 3, are compared. The frame 14 is properly elevated when the seat frame is turned into the position as shown in Fig. 3, the ends of the slots of the bifurcated ends of the arms 16 engaging the pins 20, and since the lateral movement of the frame 14 is greater than the vertical movement thereof, as shown by dotted lines 22, the ends of the slots will not contact with the pins 20 when the frame 14 is in the lowest position, and said frame will rest upon supporting members 4.

Various slight changes might be made in

the general form and arrangement of parts described without departing from our invention, and hence we do not wish to be limited to the precise details set forth, but consider ourselves permitted to make such changes and alterations as fairly fall within the spirit and scope of the claims.

Having described our invention what we claim as new and desire to secure by Letters Patent is:

1. In a device of the class described, a back and a front member connected by end portions provided in the device, a bottom member, supporting ledges on said end pieces above said bottom, a seat frame hinged to said front member and provided with folding supporting legs, an inner bed frame hinged to said seat frame and adapted to rest upon said supporting ledges when in collapsed position, and means for supporting said inner bed frame when in distended position, substantially as described.
2. In a device of the class described, a back and a front member connected by end portions, provided in the device, a seat frame hinged to said front member and provided with folding supporting legs, an inner bed frame hinged to said seat frame, supporting pins in said end portions, swinging outwardly inclined bifurcated arms pivoted to said inner bed frame and means for positioning said arms to engage said pins, upon the collapsing movement of said frame, substantially as described.
3. In a device of the class described, a back and a front member connected by end portions provided in the device, a bottom member, supporting members on said end pieces above said bottom, a seat frame

hinged to said front member and provided with folding supporting legs, an inner bed frame hinged to said seat frame and adapted to rest upon said supporting members when in collapsed position, supporting pins in said end portions, swinging outwardly inclined bifurcated arms pivoted to said bed frame, and means for positioning said arms to engage said pins upon the collapsing movement of said frame, substantially as described.

4. In a device of the class described, a back and a front member rigidly connected together by means of rectangular end portions, reinforcing inwardly projecting portions in said end portions having a bottom secured thereto for receiving bed clothing, a seat frame comprising a longitudinal member and end portions secured thereto, reduced portions in said last named end portions hinged to said front member, a rectangular member hinged to said last named portions adjacent said reduced portions thereof, said rectangular member being adapted to fold over said front frame to provide access to said clothing, and obliquely disposed arms having bifurcated ends pivoted to said rectangular frame and adapted to support the same by engaging pins provided in said reinforced portions, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

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CHARLES A. KNOCH.

Witnesses:

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KATHRYN BURKE.