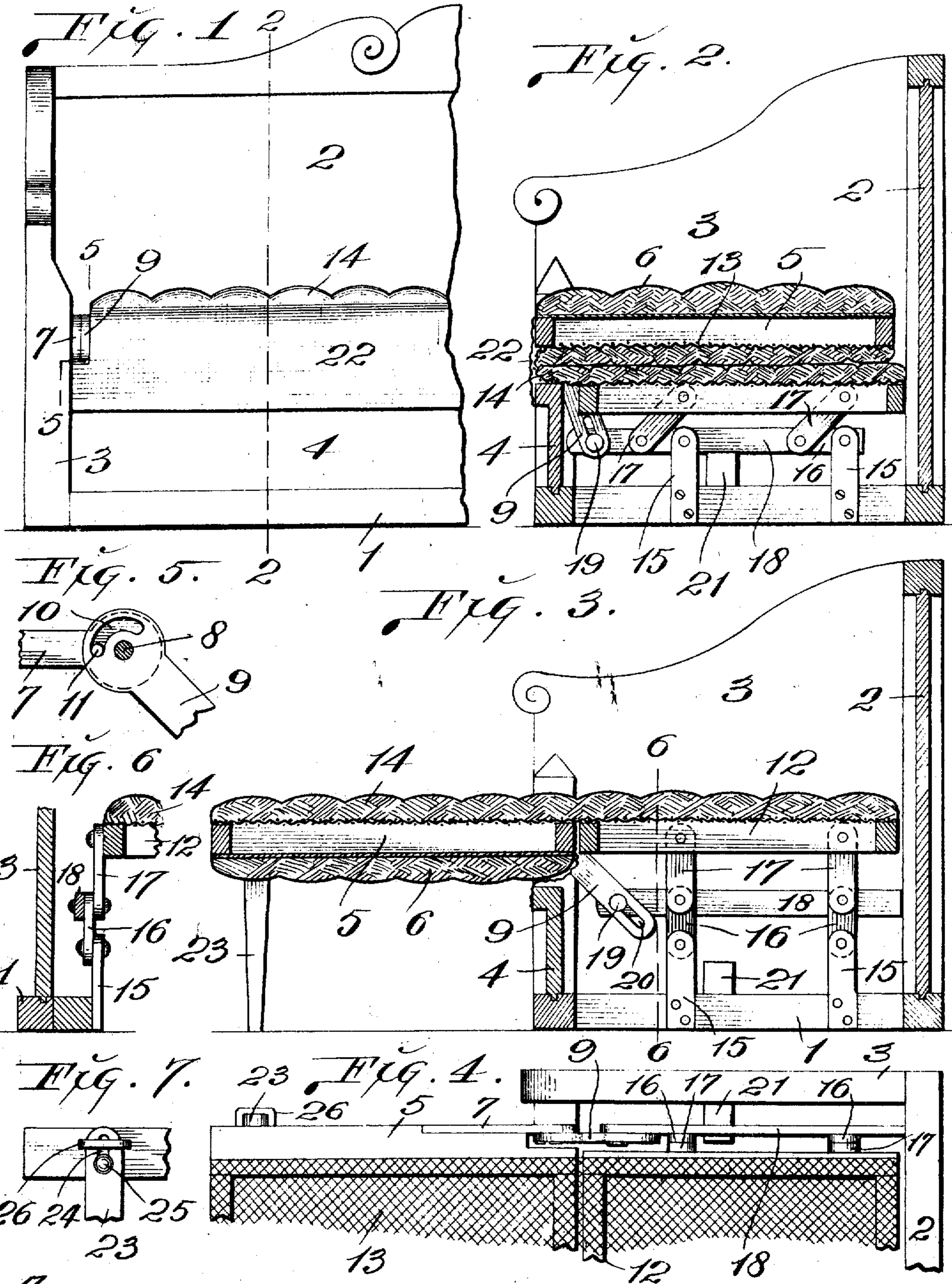


J. M. KIEFER.
FOLDING DAVENPORT OR COUCH.
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Patented Jan. 26, 1909.



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JOHN M. KIEFER, OF ST. LOUIS, MISSOURI.

FOLDING DAVENPORT OR COUCH.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN M. KIEFER, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Folding Davenports or Couches, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a folding davenport or couch, my object being to construct a davenport, couch, or lounge so that a portion of the same may be swung open to form a bed.

A further object of my invention is to so construct a folding davenport or couch as that a pad or bedding is maintained in position between the sections forming the bed, thus doing away with the necessity of removing the pad or bedding when the davenport or couch is closed.

To the above purposes, my invention consists in certain novel features of construction and arrangement of parts, which will be hereinafter more fully set forth, pointed out in the claims, and illustrated in the accompanying drawings, in which:—

Figure 1 is a front elevation of the left hand end of the folding davenport or couch of my improved construction; Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1; Fig. 3 is a view analogous to Fig. 2, and showing a portion of the seat swung into an open position to form a bed; Fig. 4 is a plan view of one end of the davenport or couch while in an open position; Fig. 5 is a detail section taken on the line 5—5 of Fig. 1, and showing a hinge joint; Fig. 6 is a vertical section taken on the line 6—6 of Fig. 3; Fig. 7 is a detail elevation of a connection between the supporting leg and the swinging frame of the davenport or couch.

Referring by numerals to the accompanying drawings:—1 designates the base frame of the davenport or couch, which may be constructed of either wood or metal, and fitted onto said base frame is a back 2, ends 3, and front panel 4; and all of said parts may be formed of wood or metal, and ornamented or upholstered, as desired.

The seat of the davenport or couch comprises a rectangular frame 5, provided on its top side with a seat cushion 6; and fixed to

the end rails of this frame, at the forward corners thereof, are plates 7, which are journaled on pins 8 seated in the front portions of the ends 3; and journaled on these pins 8 are levers 9, in the upper ends of which are formed curved slots 10, concentric with the pins 8; and seated in the plates 7 are pins 11, which extend through said slots 10.

Arranged for vertical movement within the frame of the davenport or couch is a rectangular frame 12, which, with the frame 5, forms the bed when the davenport or couch is open; and fixed to the top of this frame 12, and to the under side of the frame 5, is a wire mattress 13, upon which is located a pad or mattress 14.

Fixed to each of the end rails of the base 1 is a pair of vertically disposed brackets 15, to the upper ends of which are pivotally connected short links 16, and pivotally connected to the upper ends of these links 16 are the lower ends of links 17, the upper ends of which are pivotally connected to the end rails of the frame 12.

Pivotally mounted on the pins which connect the ends of the pairs of links 16 and 17 are the horizontally arranged bars 18, the forward ends of which carry pins 19, which pass through and operate in slots 20 formed in the lower ends of the levers 9.

Fixed to the ends of the base 1 are blocks 21, upon which the bars 18 rest when the same are lowered due to the closing of the davenport or couch.

Fixed to the front rail of the frame 5 and to the upper end of the panel 4 is a section 22, of flexible material, which forms a finish for the front of the davenport or couch and covers the space between the frame 5 and the panel 4 when the davenport or couch is closed.

Legs 23 support the frame 5 when the same is swung into an open position, the upper ends of which legs are provided with slots 24, through which pass pins 25 seated in the ends of the frame 5; and seated in the frame, immediately above the pins 25, are loops 26 which engage the upper ends of the legs to hold the same in a vertical position when said frame 5 is swung into an open position.

When the davenport or couch is closed, the various parts occupy the positions seen in Figs. 1 and 2, with the pad or bedding

folded between the wire mattress 13 carried by the frames 5 and 12; and, when so positioned, the bars 18 are swung into their lowermost positions and rest upon the blocks 21. When the parts are so positioned, the pins 11 occupy the ends of the slots 10 to the rear of the pivotal pins 8; and when the frame 5 is raised and swung over into an open position in front of the frame of the davenport or couch, the pins 11 travel through the slots 10, and before the frame 5 reaches a horizontal plane, said pins bear against the ends of the slots 10 in front of the pivotal pins 8; and, as a result, the levers 9 are actuated in such a manner as to swing their lower ends upward. This movement bears on the pins 19, causing the same to travel upward through the slots 20; and, as a result, the bars 18 are elevated, and the links 16 and 17 are swung into vertical positions in alinement with the brackets 15, thus elevating the frame 12 and bringing the same into the plane occupied by the frame 5. During this movement, the upper ends of the legs 23 automatically engage in the loops 26, thus supporting the outer portion of the frame 5, and thus the bed is formed.

A folding davenport or couch of my improved construction can be easily and quickly opened or closed; and in closing, the frame 12 is automatically lowered to form sufficient space to accommodate the pad or bedding located on the wire mattress 13, and thus said pad or bedding need not be removed when it is desired to close the davenport or couch.

The improved arrangement of movable frames herein shown and described is applicable for all forms of folding beds, davenports, couches, divans, and the like; and a davenport or other article of furniture so constructed presents a neat and finished appearance when closed, and can be readily transformed into a bed without any move-

ment other than the swinging or hinging action of the seat frame 5.

I claim:—

1. A folding davenport or couch, comprising a body frame, a seat frame pivotally connected to the body frame and adapted to be swung into a horizontal plane in front of the body frame, a frame arranged for vertical movement in the body frame, toggle links connecting the ends of the last mentioned frame with the body frame, horizontally arranged bars connecting the pairs of toggle links at the ends of the frame, and levers journaled to the ends of the body frame and pivotally connected at their lower ends to the forward ends of the horizontally arranged bars, and which levers are actuated by the movement of the seat frame.

2. A folding davenport or couch, comprising a body frame, a seat frame pivotally connected to the body frame and adapted to be swung into a horizontal plane in front of the body frame, a frame arranged for vertical movement in the body frame, toggle links connecting the ends of the last mentioned frame with the body frame, horizontally arranged bars connecting the pairs of toggle links at the ends of the frame, levers journaled to the ends of the body frame and pivotally connected at their lower ends to the forward ends of the horizontally arranged bars, which levers are actuated by the movement of the seat frame, and a wire mattress fixed to the top of the movable frame and to the under side of the seat frame.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

JOHN M. KIEFER.

Witnesses:

M. P. SMITH,
E. L. WALLACE.