Feb. 17, 1931. N. J. EKLEBERRY 1,792,684

DAVENPORT BED

Filed May 29, 1929 3 Sheets-Sheet 1

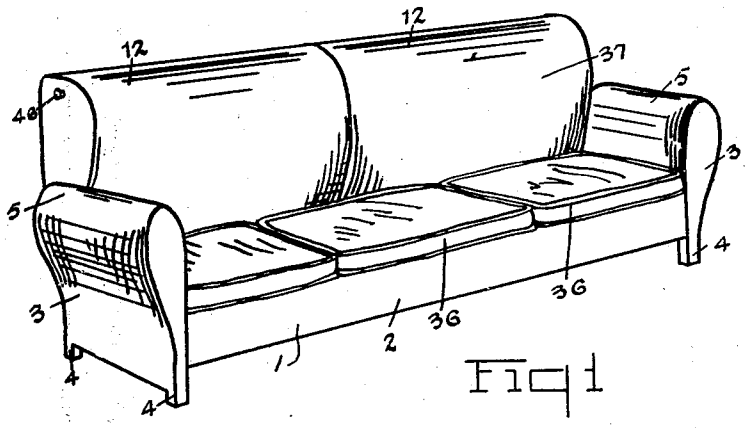


Fig 1

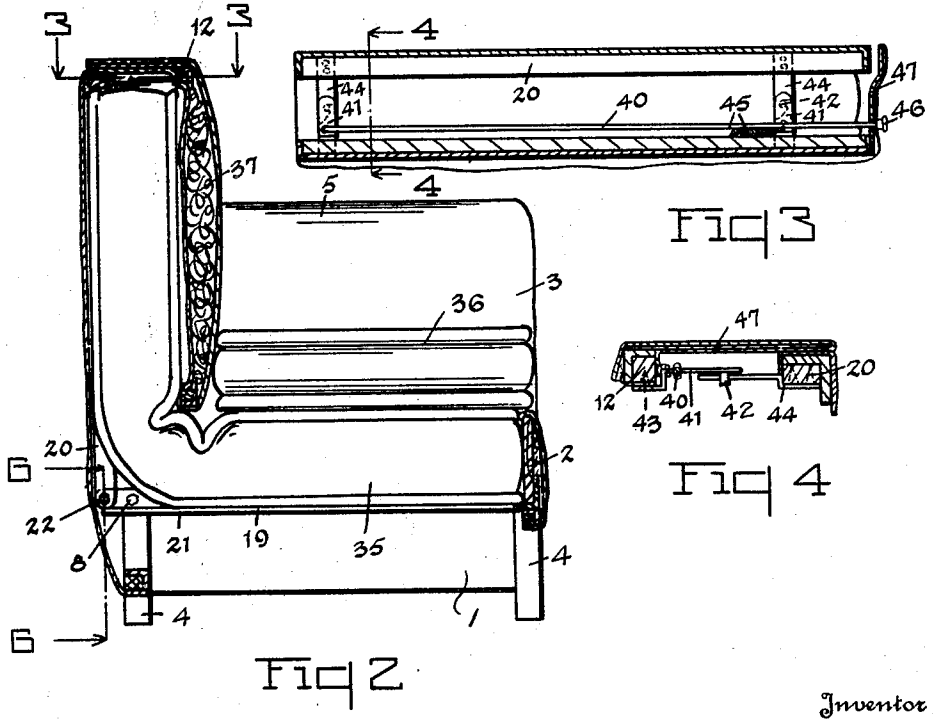


Fig 3

Fig 2

Fig 4

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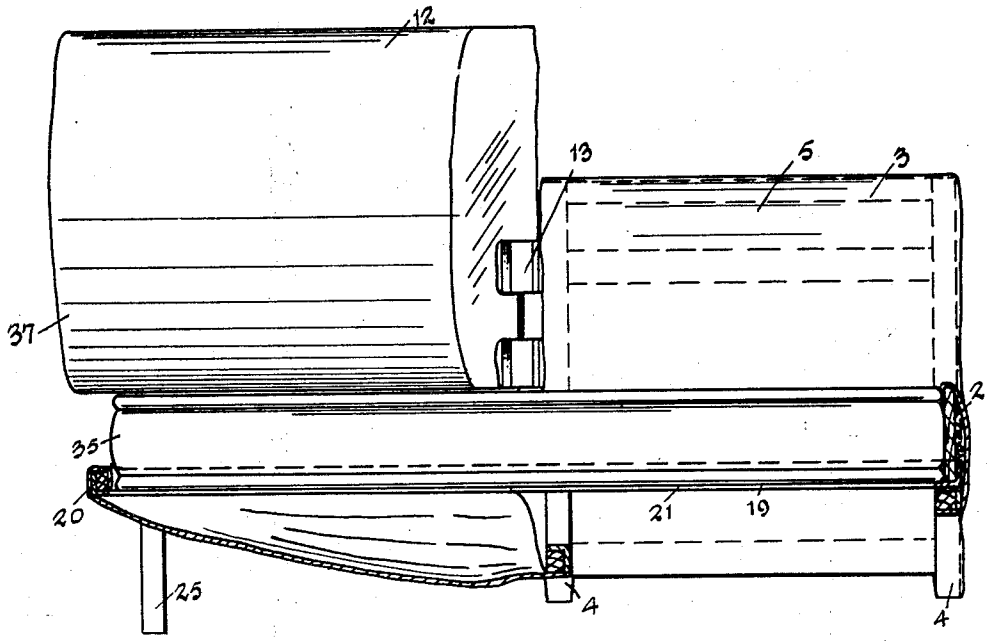


Fig 5

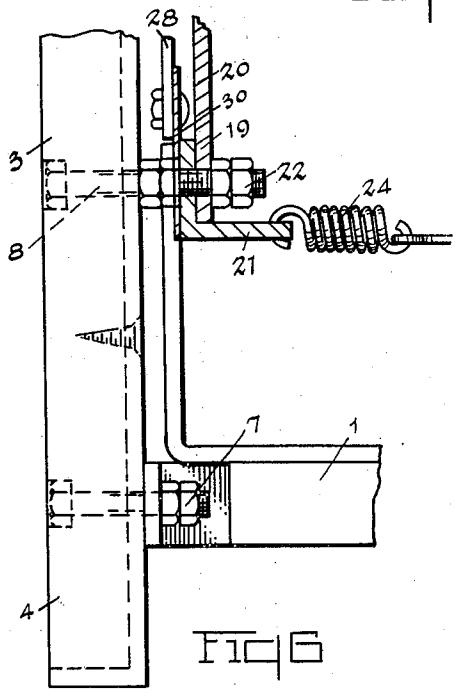


Fig 6

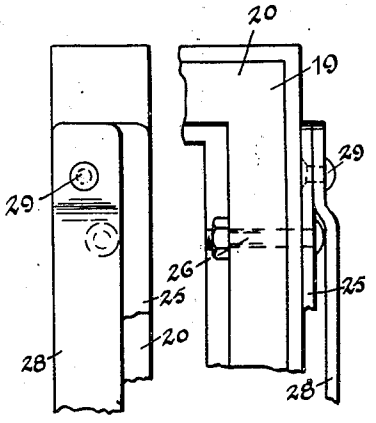


Fig 7 Fig 8

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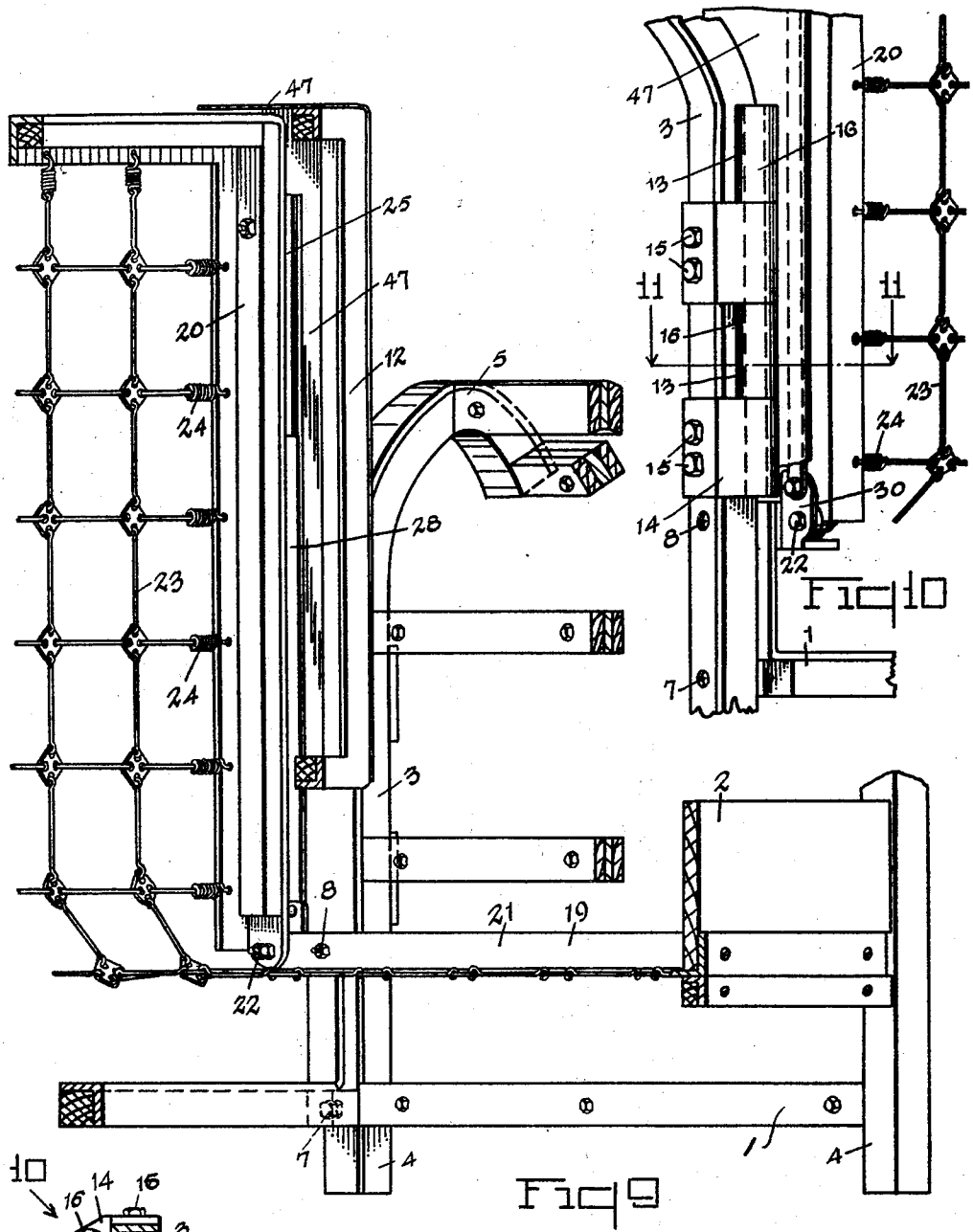


Fig 9

Fig 10

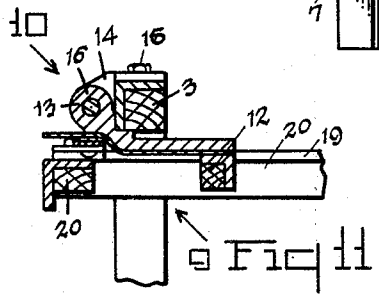


Fig 11

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Patented Feb. 17, 1931

1,792,684

UNITED STATES PATENT OFFICE

NORRIS J. EKLEBERRY, OF TOLEDO, OHIO

DAVENPORT BED

Application filed May 29, 1929. Serial No. 366,810.

My invention has for its object to provide an efficient davenport-bed construction, wherein a full width bed may be readily formed, or a part of the bed may be located behind the back and thus eliminate substantially all folding of the bedding as well as eliminating all removing and replacing of the bedding that is sometimes required in connection with davenport-beds.

The invention particularly provides a pair of upholstered hingedly supported parts that form the back of the davenport and parts of the head of the bed. It also provides a frame for supporting the said parts which is so constructed that it may be readily disassembled when it is desired to move the bed from one building to another, or, if necessary, from one room to another, and thus enable easy handling and packing of the davenport-bed.

The invention may be contained in davenport-beds that vary in their details of construction and, to illustrate a practical application of the invention, I have selected a davenport-bed containing the invention as an example of the various embodiments of my invention and shall describe the davenport-bed selected hereinafter. The davenport-bed selected for purposes of illustration is shown in the accompanying drawings.

Fig. 1 illustrates a perspective view of the davenport. Fig. 2 illustrates a view of a section taken on the plane of a line extending transverse one of the ends of the davenport. Fig. 3 is a view of a section taken on the plane of the line 3—3 indicated in Fig. 2. Fig. 4 is a view of a section taken on the plane of the line 4—4 indicated in Fig. 3. Fig. 5 illustrates a view of a section of the bed taken on the plane extending transverse one of the ends of the bed and is a view similar to that shown in Fig. 2 with reference to the davenport. Fig. 6 is a view of a section taken on the plane of the line 6—6 indicated in Fig. 2. The dimensions of Fig. 6 being larger than the dimensions of the parts shown in Fig. 2. Fig. 7 illustrates a broken view of parts of a leg operating bar. Fig. 8 is a top view of the parts shown in Fig. 7. Fig. 9 is a perspective view looking into the corner of the frame of the davenport. Fig. 10 is a similar view looking from the outside of the davenport at a rear corner. Fig. 11 is a view of a section taken on the plane of the line 11—11 indicated in Fig. 10. The arrows 9 and 10 shown in connection with Fig. 11 indicate the direction in which the perspective views are taken in presenting what is shown in Figs. 9 and 10, respectively.

The particular davenport-bed, illustrated in the drawings, is formed of an upholstered frame 1 having a front board 2 and end frames 3 that form the legs 4 and the arms 5 of the davenport. The frame 1 is composed of the front board 2 in the frame 3, the legs 4 and the arms 5. The arms 5 also constitute parts of the head and foot board of the bed. The end frames 3 are readily secured to the frame 1 by means of the bolts 7 and 8 whereby the frames may be readily disconnected from the frame 1 and the parts moved or packed for moving as may be desired.

The back of the davenport is formed of a pair of upholstered frames 12 that are pivotally supported on a pair of vertically extending hinges 13. The members 14 of the hinges 13 being secured to the frames 3 by the bolts 15, while the parts 16 of the hinge are secured at their outer ends to the frames 12 by welding or riveting. The upholstered frames 12 form the back of the davenport and, by reason of their being pivotally supported by the hinges 13, they may be swung into position at the rear of the seat of the davenport or to positions substantially in the plane of the arms 5 to form parts of the ends of the bed, that is, the head and foot boards of the bed.

The frame 1 also supports the spring frame 19. The spring frame 19 is formed of two sections 20 and 21 that are hingedly con-

nected together by the bolts 22. The bed spring used is, preferably, a wire fabricated construction of a type well known in the art, and is formed of a plurality of links that are joined together and are connected to the frame 19 by a plurality of links 23 and are joined to the frame 19 by means of the springs 24 whereby the spring fabric may be easily bent about the axis of the bolts 22 that pivotally join together the parts 20 and 21 of the frame 19.

The part 21 of the frame 19 is supported by means of the legs 4 that form parts of the arm frames 3. The part 20 of the frame 19 is supported by the bolt 22 that pivotally connects it to the part 21 and by means of the foldable legs 25 that are automatically opened when the part 20 is swung rearwardly with respect to the part 21 of the frame. The legs 25 are pivotally connected to the frame 19 by means of the bolt 26. A link 28 is connected to each leg 25 at a point above the bolt 26 by means of the rivet 29 and to the bracket 30 that is connected to the part 21 of the frame at a point above the bolts 22 so that when the part 20 is rotated about the bolt 22, the link will operate to swing the leg 25 downward with respect to the part 20 of the frame and locate it in substantially a vertical position when the part 20 is located in a substantially horizontal plane.

The back frames 12 are so connected to the vertical hinges 13 that they may be swung in front of the part 20 of the spring frame and thus cover the part 20 of the spring frame when the part 20 is located in a vertical position. A suitable mattress 35 may be located on the frame 19 and to the rear of the front board 2 and, if desired, covering cushions 36 may be located on the mattress. The upholstered back frames 12 may be located in position to cover the portion of the mattress 35 located in contact with the part 20 of the spring frame, whereby there will be presented an attractive davenport, the bedding and all being covered by cushions 36 and the upholstering 37 of the back frames 12, the back frames 12 being so supported as to provide for the thickness of that portion of the bedding located in contact with the part 20 of the spring frame 19.

When the parts are in the position of the davenport formation, the back frames 12 are locked to the part 20 of the spring frame 19 in order to secure the parts in position. A rod 40, located in each of the back frames 12, is connected to a pair of pivoted arms 41 having the pins 42. The arms 41 are pivotally connected to the back frames 12 by means of the screws 43 and a pair of fixed hooks 44 are connected to the part 20 of the frame 19. The hooks 44 are adapted to engage the pins 42 of the arms 41. The rod 40 and the arms 41 are spring pressed by means of the spring 45 that is connected at one end to the rod 40 and at the other end to the frame 12. Movement of the rod 40 and the arms 41 is limited by the head 46 located on the end of the rod and a sheet metal plate 47 through which the rod extends. The plate 47 is welded to the upper and outer sides of the frames 12 to cover the space between the frames 12 and the part 20 of the frame 19. This locates the pin 42 in position such that when the part 20 of the frame 19 is raised after the frames 12 have been located in position, the hooks 44 will readily engage the pins 42 and thus lock the part 20 of the frame 19 in position and also lock the frames 12. When it is desired to change the davenport into a bed, the rods 40 are drawn outward against the tension of the springs 45 to swing the arms 41 and cause disengagement of the pins 42 from the hooks 44, whereupon the part 20 of the frame 19 may be swung on the bolts 22 and the frames 12 may be swung towards the planes of the arms 5 to complete the formation of the head and foot boards of the bed. When the frame 20 is swung down, the legs 25 will be moved to positions to support the side of the bed formed by the part 20 of the frame 19.

I claim:

1. In a davenport bed, a body frame, a sectional spring frame supported by the body frame, a pair of arm frames supported at the ends of the body frame, the sections of the spring frame pivotally connected together, one of the sections of the spring frame supported substantially horizontally, a pair of upholstered back frames pivotally supported on the arm frames one of the sections of the spring frames located at the rear of the back frames when the last named section of the spring frame is in a substantially vertical plane through the pivotal axis between the sections of the spring frame and when the parts are in davenport relation, the last named section of the spring frame adapted to be lowered to a position substantially in the same plane as the plane of the first named spring sections.

2. In a davenport bed, a body frame, a pair of upholstered arm frames, each arm frame having a pair of legs, means for removably connecting the arm frames to the body frame, a pair of upholstered back frames pivotally connected to the arm frames adapted for movement of the back frames to positions at right angles to the arm frames and substantially in the plane of the arm frames, a spring frame having two sections pivotally connected together at points below and to the rear of the lower edges of the upholstered back frame, one of the spring sections supported in the body frame, and the other of the spring frames located in a substantially vertical plane to the body frame and to the rear of the upholstered back frame a distance substantially the same as the thick-

ness of the bedding of the davenport bed when the back frames are at right angles to the arm frames, each of the back frames having means for interconnecting the back frames with a section of the spring frame for securing the back frame in davenport formation.

In witness whereof I have hereunto signed my name to this specification.

NORRIS J. EKLEBERRY.