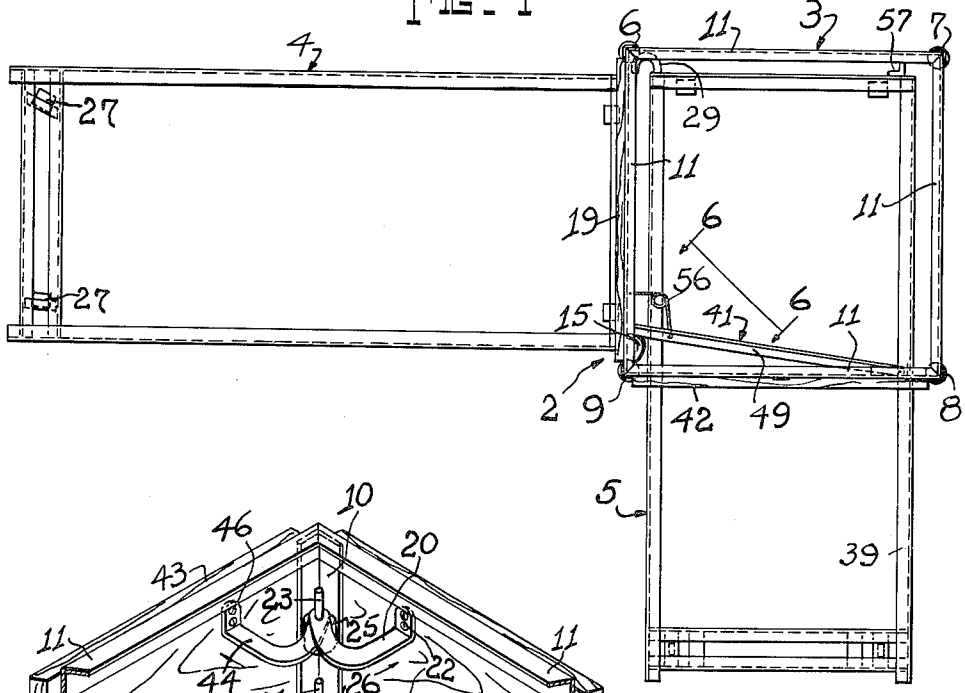
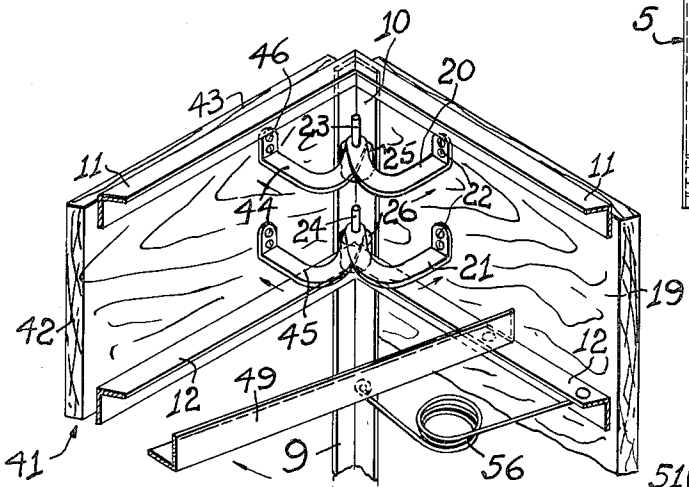
May 22, 1962 J. SPROULE 3,035,277

TABLE-SOFA-BED

Filed Aug. 3, 1959 3 Sheets-Sheet 1

Fig. 1





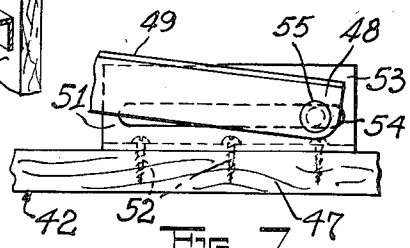


Fig. 7

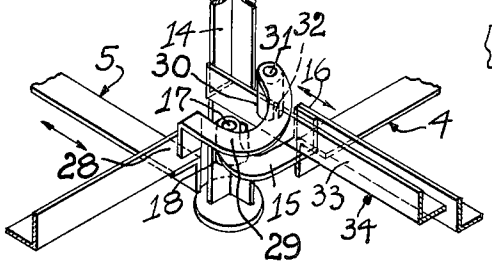


Fig. 6

INVENTOR.
JOHN SPROULE
BY
Gustav A. Wolff. ATT

May 22, 1962 J. SPROULE 3,035,277

TABLE-SOFA-BED

Filed Aug. 3, 1959 3 Sheets-Sheet 2

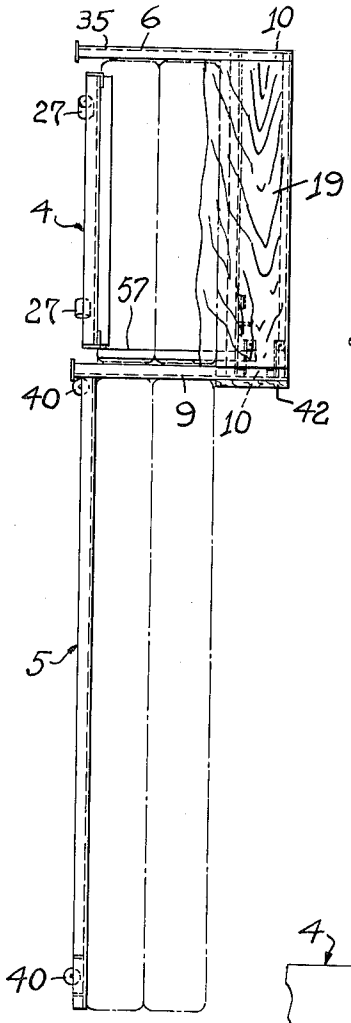


Fig. 3

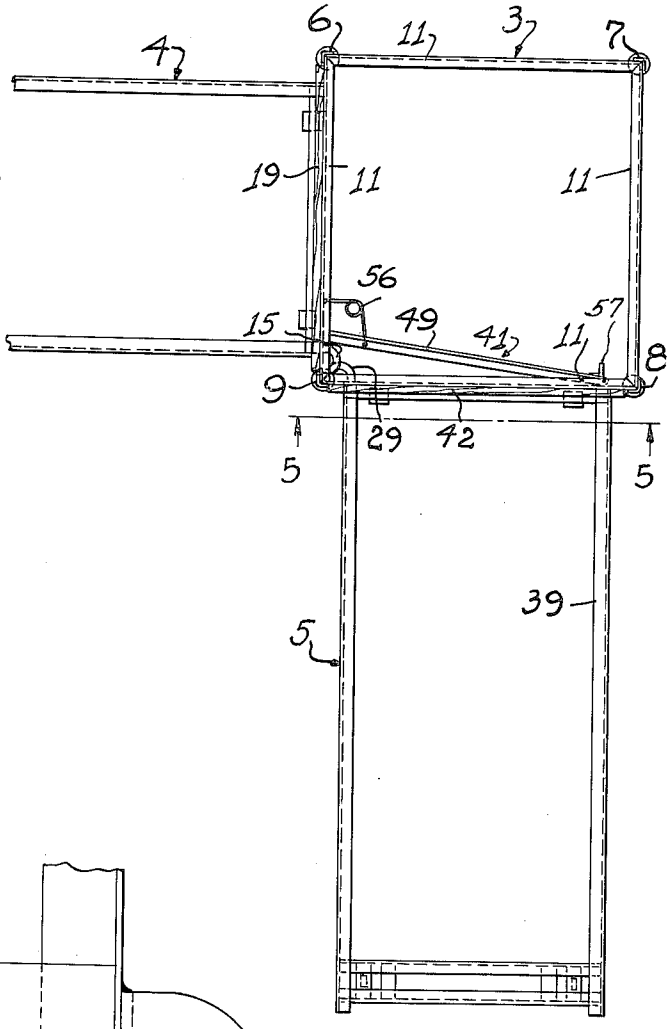


Fig. 2

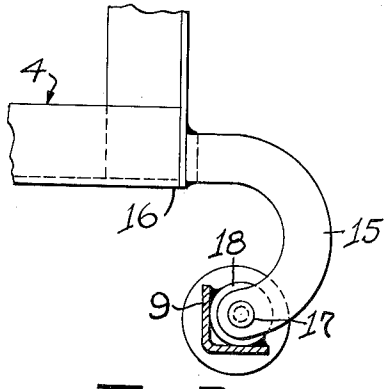


Fig. 8

INVENTOR.
JOHN SPROULE
BY
Gustav Q. Voegff.
ATT.

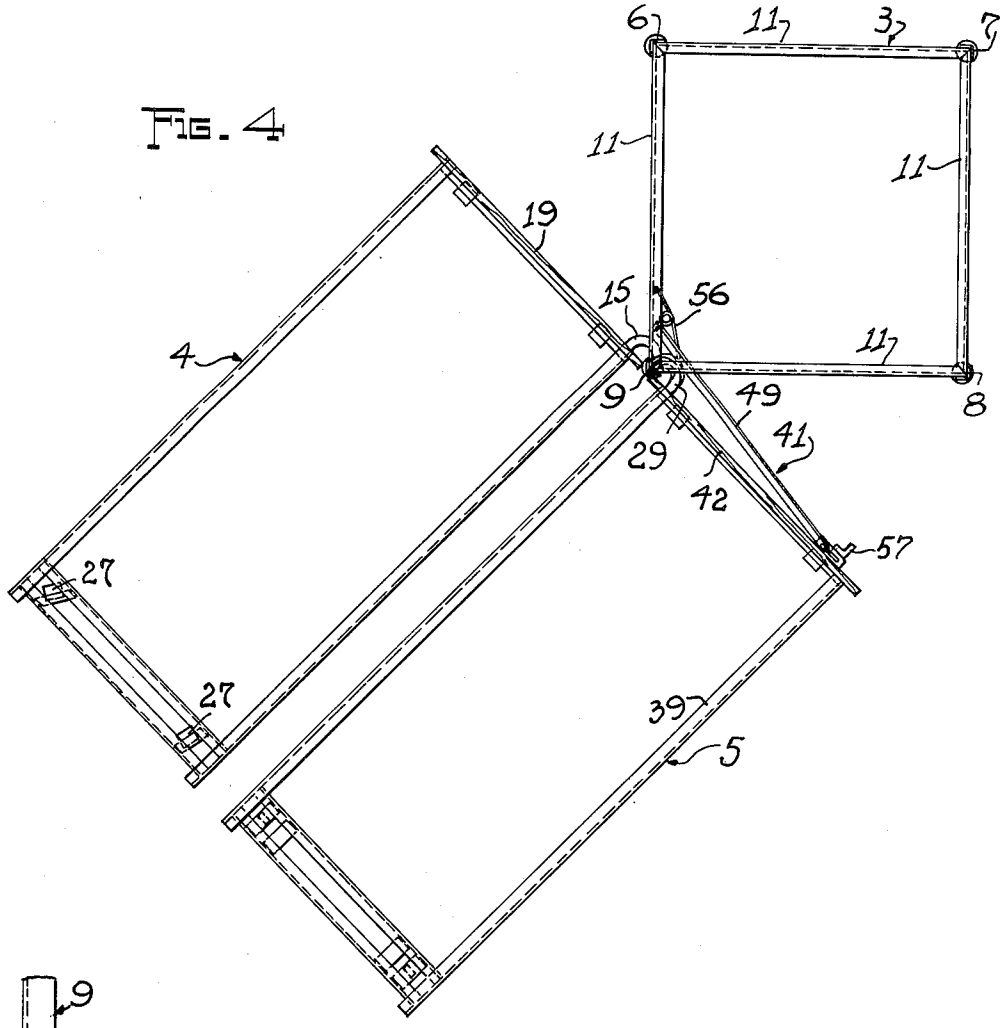
May 22, 1962 J. SPROULE 3,035,277

TABLE-SOFA-BED

Filed Aug. 3, 1959

3 Sheets-Sheet 3

Fig. 4



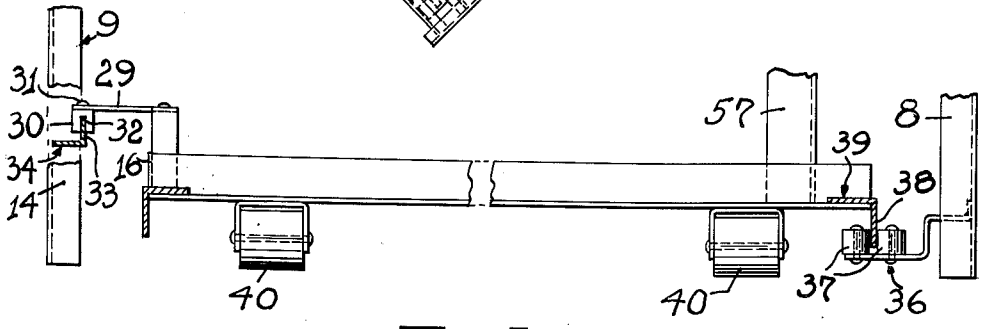


Fig. 5

INVENTOR.
JOHN SPROULE

BY

Gustave A. Wolff. ATT.

United States Patent Office 3,035,277 Patented May 22, 1962

3,035,277
TABLE-SOFA-BED

John Sproule, Los Angeles, Calif., assignor, by mesne assignments, to C. A. Miketta, Los Angeles, Calif.

Filed Aug. 3, 1959, Ser. No. 831,422
7 Claims. (Cl. 5—3)

This invention relates in general to lounges, studio couches, and similar articles of furniture, and, more particularly, to convertible articles of furniture for hotel and motel rooms, tourist cabins etc., which articles of furniture provide in daytime occasional and sitting room accommodations and in night-time sleeping facilities.

The primary object of the invention is the provision of a novel, compact and practical article of furniture constructed to embody two sofa beds and a rectangular table, having one sofa bed longitudinally slidable and pivotally coupled and the other sofa bed only pivotally coupled therewith to permit individual pivotal swinging of the sofa beds with respect to the table and each other and individual longitudinally slidable shifting of only one sofa bed with respect to the table.

This construction of a convertible article of furniture permits its daytime setting as a sectional furniture arrangement having two differently sized seating accommodations arranged at two sides of a rectangular table and night-time setting of the sofa beds to the desired angle relation with respect to each other and the table.

Another object of the invention is the provision of an article of furniture of the type described, wherein one sofa bed is directly pivoted to a stationary pivot member of the rectangular table and wherein the other sofa bed is pivoted to a longitudinally slidably arranged pivot member mounted in a rectangular frame of the table for independent shifting and sliding of the sofa beds with respect to the table.

A further object of the invention is the provision of an article of furniture of the type described, wherein one of the sofa beds embodies a headboard rigidly attached thereto, which headboard is pivotally connected to a stationary pivot member of the rectangular table, wherein said table pivotally supports another headboard to be used with the other one of the sofa beds, wherein said latter headboard is yieldingly held in contact with one side of the rectangular table, and wherein the said other sofa bed embodies means adapted to engage the latter headboard when shifted to fully extend out of the rectangular table.

With the above and other objects in view, the invention has certain other marked superiorities which clearly distinguish it from presenting known structures and arrangements of this type. These improvements or characteristics, embodying certain novel features of construction and design, are clearly set forth in the appended claims and the preferred form of embodiment of the invention hereinafter shown with reference to the accompanying drawings forming part of the specification.

In the drawings:

FIG. 1 is a somewhat diagrammatic plan view of the frame construction of a convertible article of furniture embodying the invention, the frame construction being shown in retracted position providing an article of furniture with daytime sitting room accommodations.

FIG. 2 is a fragmentary plan view similar to FIG. 1, showing the frame construction in intermediate position providing the article of furniture with night-time sleeping accommodations.

FIG. 3 is a side view of FIG. 2.

FIG. 4 is a plan view similar to FIG. 2, the frame construction being shown in extended position having the sleeping accommodations extended adjacent each other in symmetrical relation to the rectangular table frame.

FIG. 5 is a cross sectional view taken on line 5—5 of FIG. 2.

FIG. 6 is a fragmentary view of the slidable pivot arrangement of the frame construction as seen from line 6—6 of FIG. 1.

FIG. 7 is an enlarged fragmentary plan view of a pivot lever and spring arrangement controlling the headboard of the one sleeping accommodation; and

FIG. 8 is an enlarged fragmentary plan view of the pivot arrangement of the other one of the sleeping accommodations.

Referring now more particularly to the type of convertible article of furniture previously mentioned, the drawings show a frame construction 2 of a convertible article of furniture, which frame construction includes a corner table frame structure 3 and two sofa bed frame structures 4 and 5 connected to corner table frame structure 3 by pivotal and slidably pivotal couplings to permit pivotal swinging of sofa bed frame structure 4 and longitudinally slidable shifting and pivotal swinging of sofa bed frame structure 5 from the position shown in FIGURE 1 to the positions shown in FIGURES 2 and 4.

Table frame structure 3 is of rectangular cross section and embodies four legs 6, 7, 8 and 9, the upper portions 10 of which are connected to each other by vertically spaced angle irons 11 and 12. The lower part of the table is generally open and constitutes in effect a housing for receiving therein an end portion of a sofa bed frame structure. Table frame structure 3 has the lower portion 14 of leg 9 pivotally coupled with sofa bed frame structure 4 by a curved bracket 15 which is welded to rear corner 16 of sofa bed frame structure 4 and connected with pivot pin 17 mounted in a bushing 18 welded to leg 9.

Sofa bed frame structure 4 carries a headboard 19 rigidly secured thereto, which headboard is pivoted to upper portion 10 of leg 9 by curved brackets 20, 21 secured to headboard 19 by screws 22. Brackets 20, 21 are engaged with pivot pins 23, 24 of supporting elements 25, 26 secured to leg 9 about midway between angle irons 11 and 12.

The coupling connection of sofa bed frame structure 4 with table frame structure 3 permits swinging of the sofa bed frame structure from its retracted position shown in FIGURE 1 to its extended position shown in FIGURE 4, which swinging is facilitated by rollers 27.

Table frame structure 3 is furthermore coupled with sofa bed frame structure 5 by coupling means permitting longitudinal and pivotal movements of the sofa bed frame structure with respect to the table frame structure. For such purpose, sofa bed frame structure 5 carries at one rear corner 28 (see FIG. 6) a curved bracket 29 pivoted to a slidably supported bushing 30 which rotatably mounts a pivot pin 31 on curved bracket 29. Bushing 30 has its lower end slotted at 32 and slidably engages the flange 33 of an angle iron 34 secured to lower portions 35 and 14 of legs 6 and 9. In addition to the described longitudinal slidable and pivotal coupling between table frame structure 3 and sofa bed frame structure 5, the latter is slidably coupled with table frame structure 3 by guide means including a guiding device 36 secured to leg 8, which guiding device includes a pair of rollers 37 arranged to engage opposite sides of downwardly extended flange 38 of side rail 39 of the sofa bed frame structure.

The coupling connection of table frame structure 3 with sofa bed frame structure 5 permits its longitudinal shifting between retracted and intermediate positions into and out of the table frame structure (see FIGS. 1 and 2) and, in addition, swinging of sofa bed frame structure 5 from its intermediate position of FIGURE 2 to its ex-

tended position of FIGURE 4, shifting and swinging movements being facilitated by rollers 40.

Longitudinal shifting of sofa bed frame structure 5 into and out of table frame structure 3 is made possible by a special headboard arrangement 41 for the sofa bed frame structure, which includes a headboard 42 of limited height pivoted by one end 43 to upper portion 10 of leg 9 by curved brackets 44, 45 secured to end 43 by screws 46. Brackets 44 and 45 are pivotally coupled with leg 9 by pivot pins 23, 24 of supporting elements 25, 26 respectively. The other end 47 of headboard 42 is slidably and pivotally connected to end 48 of a lever 49 pivoted to angle iron 12 between legs 6 and 9, which lever 49 is slidably and pivotally coupled with headboard 42 by an angle bracket 51 secured to said headboard by screws 52, angle bracket 51 including a slotted flange 53 having its elongated slot 54 slidably and pivotally engaged with pin or bolt 55 on end 48 of lever 49. Lever 49 is spring-controlled by a spring member 56 attached to said lever and to the angle iron 12 which extends between legs 6 and 9.

When sofa bed frame structure 5 is retracted into table frame structure 3, the headboard 42 is not contacted by the sofa bed frame structure, but instead is yieldingly forced by spring-controlled lever 49 into contact with angle irons 11, 12 extending between legs 8 and 9. When sofa bed frame structure 5 is fully extended out of table frame structure 3, the bracket 51 carried by headboard 42 is abuttingly engaged by an upright 57 at the rear of sofa bed frame structure 5. Thus the upright then continuously contacts headboard 42 and holds same in alignment with the head end of bed 5 during swinging movements of the sofa bed frame structure between intermediate and extended positions.

Curved brackets 15 and 29 at corners 16 and 28 of sofa bed frame structures 4 and 5 are half-circularly shaped to permit their shifting under table frame structure 3 when the article of furniture is in sitting room position and their swinging around leg 9 in close relationship with respect thereto through an arc of ninety degrees (90°) or more. This construction enables shifting of each sofa bed frame structure to its respective extended position adjacent the other sofa bed frame structure and to any position with respect to table frame structure 3.

While there has been shown and described a particular embodiment of this invention, it will be obvious to those skilled in the art that various changes and modifications may be made therein without departing from the invention, and therefore it is intended in the appended claims to cover all such changes and modifications as fall within the true spirit and scope of the invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. In the combination of a table-sofa-bed, a table frame structure having substantially rectangular open cross section, a sofa bed frame structure with a stationary headboard pivoted to said table frame structure, a second sofa bed frame structure, coupling means on said table frame structure longitudinally slidably and pivotally connecting said second sofa bed frame structure with said table frame structure, the second sofa bed frame structure sized to be longitudinally partially shifted into said table frame structure, said coupling means including track means arranged in said table frame structure and guide means cooperating with the track means in guiding the second sofa bed frame structure in longitudinally slidable and pivotal movements with respect to the table frame structure, a headboard for said second sofa bed frame structure pivoted to the table frame structure, and cooperating means adapted to shift said latter named headboard in opposite directions, said cooperating means including spring-biased lever means adapted to yieldingly force the headboard toward the table frame structure and stationary means on the second sofa bed frame structure adapted to shift the headboard jointly with the second sofa bed frame structure in pivotal movement of the second sofa bed frame structure with respect to the table frame structure.

2. A table-sofa-bed comprising: a table frame structure having at least one straight edge and a generally open lower housing portion adapted to receive an end portion of a sofa therein; a sofa bed frame structure movable to a retracted position wherein a substantial end portion thereof is received within said housing to an intermediate position wherein its entire length lies outwardly of the housing and perpendicular to said edge, or to an extended position wherein its entire length lies outwardly of the housing and projects angularly from said edge; interengaging means permitting longitudinal and pivotal movement of the sofa bed frame structure relative to said edge; and a headboard disposed above said housing and mounted on the table frame structure for pivotal swinging about a vertical axis between a retracted position in substantial alignment with said edge and an extended position projecting angularly outwardly from the edge, means resiliently biasing said headboard into retracted position, and means carried by the sofa bed frame structure for abuttingly swinging the headboard into its extended position during pivotal movement of the sofa bed frame structure from intermediate position to extended position.

3. The invention as stated in claim 2 including a second sofa bed frame structure pivotally connected to the table frame structure for swinging between a retracted position disposed at one angular relation with said edge and an extended position disposed at another angular relation with said edge, said latter extended position being in parallel side-by-side relation with the extended position of the first named sofa bed frame structure, said second sofa bed frame structure having fixed thereto an upstanding headboard at its table end, said headboards being in aligned adjacent relation when the two sofa bed frame structures are in their extended positions.

4. In the combination of a table-sofa-bed, a table frame structure having substantially open cross section, a sofa bed frame structure slidably and pivotally coupled with one end of the table frame structure and sized to be retracted thereinto, a headboard for the sofa bed frame structure pivoted to one corner of the table frame structure, spring-controlled means yieldingly forcing the headboard into contact with one side of the table frame structure and vertical means carried by the rear of the sofa bed frame structure which abuttingly engages said pivotally supported headboard when the sofa bed frame structure has been withdrawn from the table frame structure to an intermediate position, whereby the sofa bed frame structure may be shifted between intermediate and retracted positions while the headboard remains in stationary contact with said side, and pivotal movement of the sofa bed frame structure relative to the table frame structure causes the headboard to pivot in stationary relation with the sofa bed frame structure during pivotal movement of the latter relative to the table frame structure.

5. The combination described in claim 4, wherein the headboard is arranged above the sofa bed frame structure to permit longitudinal shifting of the sofa bed frame structure into and out of the table frame structure.

6. The combination described in claim 4, wherein the spring-controlled means for the headboard include a spring-actuated lever pivoted to the table frame structure and slidably and pivotally coupled with the said headboard.

7. A table-sofa-bed comprising: a table frame structure having at least one straight edge and a generally open lower housing portion adapted to receive an end portion of a sofa therein; a sofa bed frame structure movable to a retracted position wherein a substantial end portion thereof is received within said housing, to an intermediate position wherein its entire length lies outwardly of the housing and perpendicular to said edge, or to an extended

position wherein its entire length lies outwardly of the housing and projects angularly from said edge; interengaging means permitting longitudinal and pivotal movement of the sofa bed frame structure relative to said edge including a horizontally extending elongated track fixed to one of said structures and a member pivotally carried by the other structure for rotation about a vertical axis, said member being adapted to slidably receive said track; a headboard disposed above said housing and mounted on the table frame structure for pivotal swinging about a vertical axis between a retracted position in substantial alignment with said edge and an extended position projecting angularly outwardly from the edge; means resiliently biasing said headboard into retracted position; and means carried by the sofa bed frame structure for abuttingly swinging the headboard into its extended position during pivotal movement of the sofa bed frame structure from intermediate position to extended position.

References Cited in the file of this patent

UNITED STATES PATENTS

1,488,144	Bell	Mar. 25, 1924
2,691,174	Harrison	Oct. 12, 1954
2,751,272	Hutzelman	June 19, 1956
2,777,742	Schieber	Jan. 15, 1957
2,806,228	Ziegenfuss	Sept. 17, 1957
2,886,830	Iaguinta	May 19, 1959
2,899,691	Davis et al.	Aug. 18, 1959
2,909,789	Bailey	Oct. 27, 1959
2,955,297	Bailey	Oct. 11, 1960