Dec. 29, 1953 H. A. BACKUS 2,663,878

SOFA BED BACK REST

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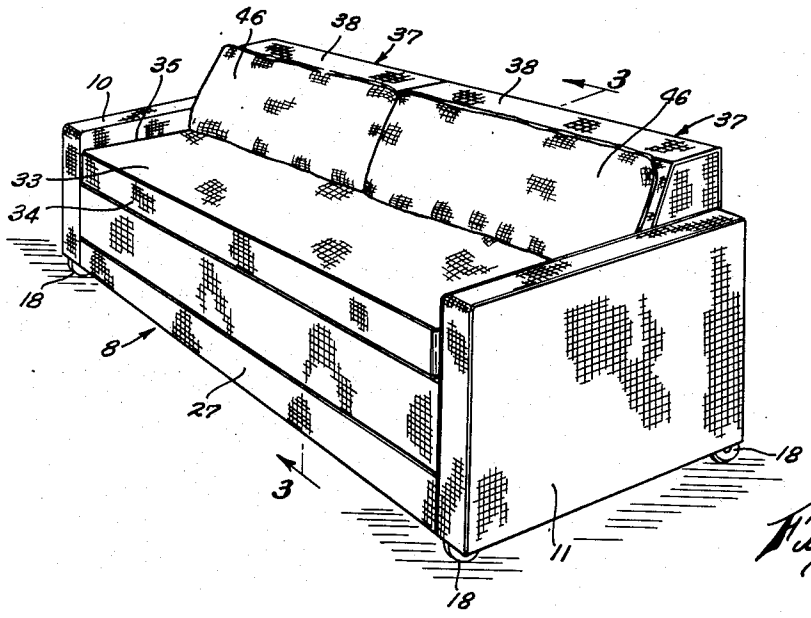
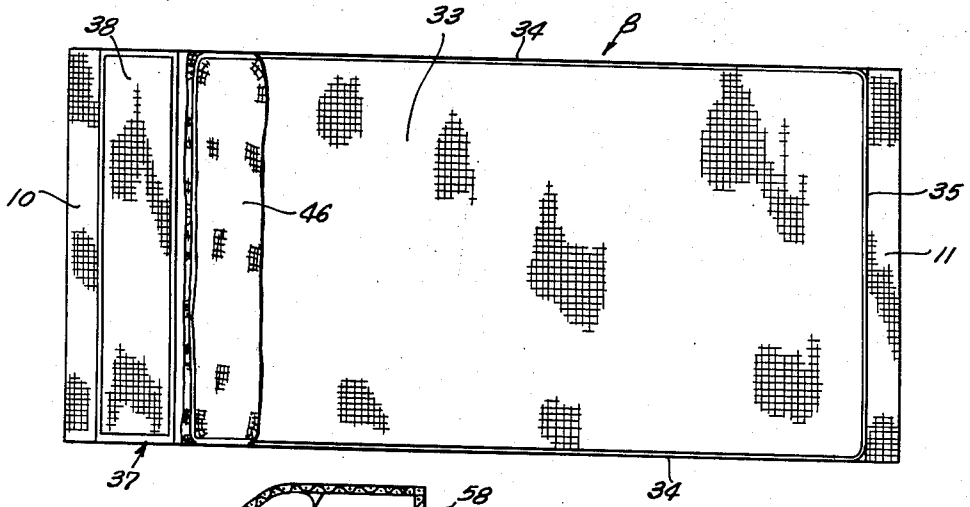


Fig. 1

Fig. 2



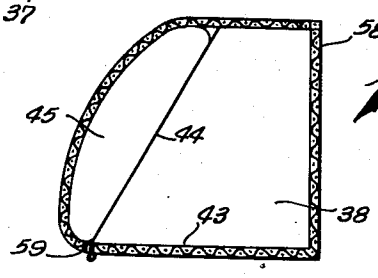


Fig. 5

INVENTOR.
Harry A. Backus

BY

Murray, Sachhoff & Murray
ATT'YS

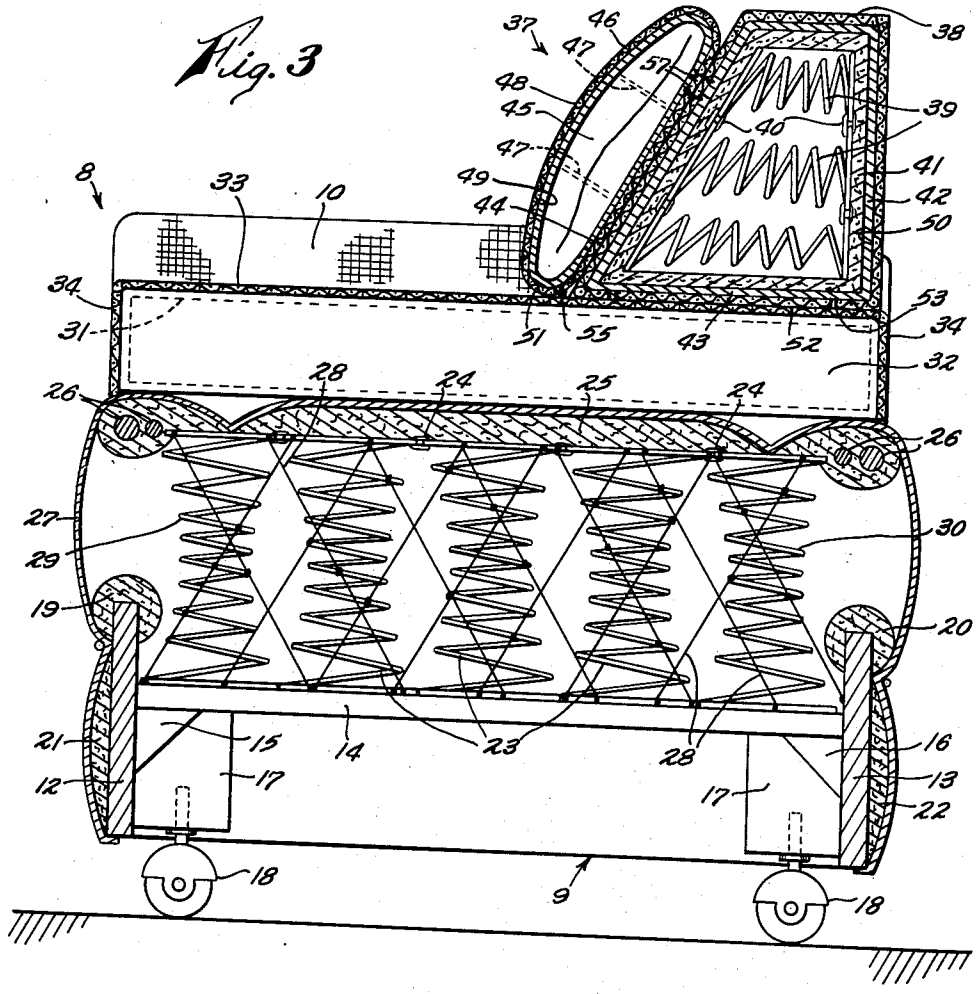
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Fig. 3



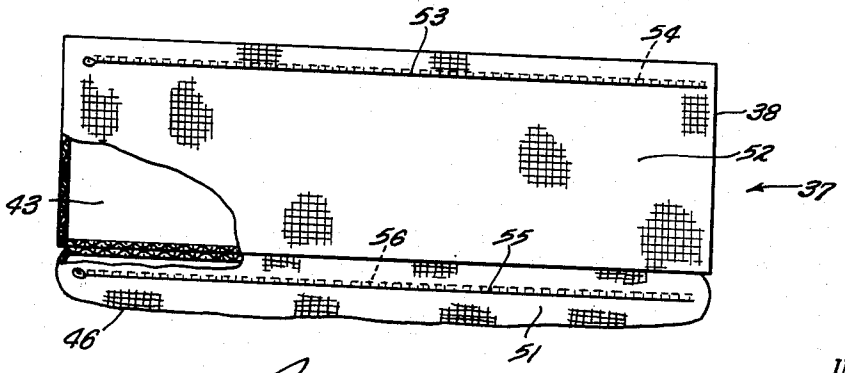


Fig. 4

INVENTOR.
Harry A. Backus

BY

Murray, Buckhoff & Murray
ATT'YS

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SOFA BED BACK REST

Harry A. Backus, Cincinnati, Ohio

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11 Claims. (Cl. 5—59)

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The present invention relates to a sofa bed back rest and has as its principal object the provision of a novel two-part accessory which serves as a luxurious sofa or lounge back rest and includes a means for readily detaching a part therefrom to permit that part to be used as a bed pillow.

Another object of the invention is to provide a novel two-part accessory for a bed structure, which includes as a part a pillow that is detachable therefrom, whereby said accessory can be combined with a conventional bed structure to provide a comfortable sofa or chaise longue arrangement during the day, or may be easily removed from the bed structure, and the pillow detached therefrom for use upon the bed as a head rest during the night.

A further object of the invention is to provide a novel two-part back rest for a sofa bed consisting of a form retaining, resilient bolster part, and a back engaging forepart affixed to and supported by the bolster part, both enclosed in a case for removably holding a pillow of a relatively soft, yielding structure; said pillow when removed from the case providing a head rest for a bed formed by removal of the said bolster from the bed structure.

Another object of the invention is to provide a novel duplex back rest for furniture which has a rear bolster part of a relatively dense, resilient and form retaining cushion, and an extremely soft and pliable, body contacting forepart affixed to and supported by the rear part and having a relatively lighter density than said bolster part.

Another object of the invention is to provide a duplex accessory having the features and functions of the next preceding object wherein the bolster part is constructed to cooperate with the forepart when the accessory is used as a back rest to normally support the user's body in a secure and comfortable position upon a bed structure by the expedient of obtaining a good frictional contact between the bolster part and the structure to preclude rearward sliding movement of the duplex accessory thereon.

Another object of the invention is to provide a covering for the parts of a duplex back rest having the foregoing characteristics which retains said parts in cooperative relationship and permits the forepart to be easily removed therefrom for use as a head rest and further has a closure means for the removal of the rear part so that the covering may be cleaned.

I attain these and other objects of my invention by the means illustrated in the accompanying drawings, in which:

Fig. 1 is a perspective view of the sofa bed with my two-part back rests in cooperative position thereon to form a sofa.

Fig. 2 is a top plan view of the sofa bed of

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Fig. 1 with an accessory at one end thereof to form a suitable chaise longue.

Fig. 3 is an enlarged section taken on line 3—3 of Fig. 1.

Fig. 4 is a bottom plan view of the back rest, parts of the cover being broken away to show the underlying parts.

Fig. 5 is a sectional view of a modified form of my back rest.

The embodiment of my invention comprises a suitable bed structure 8 having a rigid frame 9 including a pair of spaced end members 10 and 11 connected to longitudinal side rails 12 and 13 (Fig. 3). A longitudinal row of laterally extending slats 14 extend between the rails and have their ends secured to said rails by suitable corner blocks 15 and 16 respectively. A block 17 is affixed in each corner of the frame 9 and each has pivoted thereto a caster 18 so that the sofa bed may be readily rolled from place to place. As shown in Fig. 3 the upper edges of the side rails 12 and 13 are provided with cotton felt bumpers 19 and 20 respectively, whilst the exterior surfaces of the rails below the bumpers are covered with cotton paddings 21 and 22 respectively. A box spring assembly is preferably built into the frame 9 and consists of a group of inner springs 23 supported upon the slats 14 and having their upper ends connected together by links 24. Upon the springs there is positioned suitable paddings 25 which extend across the upper coils of the springs and have their edges rolled around a very stiff edge wire or wires 26. The exterior parts of the bed structure comprising the frame and spring assembly are completely covered by an upholstering fabric material 27, said material concealing the padding 21 and 22, the bumpers 19 and 20, paddings 25 and the group of inner springs 23. With reference to Fig. 1 it will be understood that the end members 10 and 11 may be suitably padded and covered with a fabric material similar to the material of the cover 27. The action of the coils of the springs 23 are coordinated by a network of cross-ties 28 inclined with respect to the axes of the springs and secured to the slats 14, and to the intermediate and upper coils of the springs.

Outer rows 29 and 30 of more highly tempered and resistant coil springs are positioned along the side edges of the box spring structure and serve as means for reenforcing the side edge portions of the spring assembly against the weight of an occupant, for the purposes to be hereinafter set forth. It will be also particularly noted that the spring assembly partially extends above the frame but that it does not extend above the top portion of the end members 10 and 11.

The box spring assembly supports the usual mattress 31 upon it, and as indicated in Fig. 3, the mattress will generally have associated there-

with bed clothing 32 such as bed sheets, covers, etc. During the period that my device is used as a sofa the mattress and its clothing 32 is protected by a mattress cover 33 which is made of fabric upholstering material provided with a rough facing. This cover has interconnected side panels 34 and end panels 35 which snugly receive the sides and ends of the clothed mattress. The cover and its panels are therefore tailored to fit the mattress in a manner to secure the cover on the mattress against edgewise movement, it being understood that for certain types of sofa beds one or both of the side panels 34 may be extended to the floor.

A number of sofa bed accessories generally indicated by the reference numeral 37 are shown in Fig. 1 positioned upon a rear edge portion of the covered mattress of the bed structure in such a manner as to provide a continuous back rest extending between the end members 10 and 11 of the structure. As indicated in Fig. 2 the length of the sofa bed is twice its width dimension whereby a single rest 37 may be disposed adjacent an end member 10 thus forming with the bed structure a comfortable chaise longue, when desirable.

With reference to Figs. 3 and 4 each back rest has a bolster or back part 38 constructed from a plurality of horizontally acting inner springs 39 having their end coils secured together by suitable links 40 to provide a resilient, form retaining body for the bolster. The springs are covered by a layer of padding 41 which in turn is enclosed in ticking 42. The padding 41 may be made of cotton felt or a combination of sisal and cotton or suitable foamed rubber, and the like. The unit so formed of resilient cushioning material provides a relatively medium resistance to pressure and has a relatively dense, form retaining characteristic brought about principally by the action of the inner springs. The form of the bolster is substantially trapezoidal in lateral section, said unit having a flat base 43 and a front wall 44 inclined upwardly and rearwardly from the front edge of the base.

The usual head pillow 45, substantially ovoid in section and in its usual pillow case, serves as a soft, pliable forepart 46 for the back rest. As indicated in Fig. 3 said pillow is divided into three or more compartments by cross webs 47, each of the compartments formed by the webs being filled with a soft material such as feathers, hair or other suitable material such as foam rubber, or the like. This compartmented pillow is particularly advantageous for my purposes because it confines the soft material in suitable layers within the pillow cover and precludes collection of all the said material at the bottom edge, whereby said pillow will retain its ovoid shape in use either as a back rest or as a bed head rest.

With reference to Fig. 3 a case 48 encloses the bolster part 38 and the forepart 46 of the accessory and is adapted to maintain said parts in cooperative juxtaposition when the accessory is used as a back rest. The case comprises two compartments 49 and 50, each made of fabric upholstering material 51 and 52 respectively; and in this respect it is particularly pointed out that that portion of the upholstery material 52 which covers the base 43 of the bolster part has a rough face for purposes to be more fully described hereinafter. The compartment 50 is constructed to snugly enclose the bolster 38, the case for said compartment having an elongated opening 53 therein for removal of the bolster therefrom, it being contemplated that said opening may be closed by overlapping flaps, suitable button fasteners, hookless fasteners 54, or the like (Fig. 4). The other cover compartment 49 is substantially ovoid in section and is also constructed with an elongated opening 55, said opening being closed by a hookless fastener 56, or the like in the usual manner. The compartments are secured in operative positions by longitudinal lines of stitches 57 (Fig. 3) which pass through the upper portions only of the material forming the compartments 49 and 50 for the back rest parts.

As shown in Fig. 5 I contemplate enclosing the forepart pillow 45 and the back part bolster 38 in a single case 58, said case having a normally closed, elongated opening 59 therein for removing one or both of the parts when desired.

It is to be understood that the spring group 23 for the bed structure has a special row 29 and 30 of highly tempered, strong springs along its front and back edges to give additional support to the superjacent edges of the mattress. As illustrated in Fig. 3 the row of back rests 37 are supported upon the rear edge of the mattress above the reenforced row of springs 30 to maintain the back rests against undesirable depressive movement when the device is used as a sofa. It will also be appreciated that the front row 29 of reenforced springs will effect a stronger support for the user's legs than the center of the bed structure thereby easing the user into a comfortable sitting position with his back firmly pressed into contact with the rest.

It will be noted also that the front wall 44 of the bolster part 38 for my accessory is inclined with respect to its base 43 and that the bolster has a form retaining characteristic that is lacking in the softer forepart attached to the front wall. When a user's back is supported by my rest the greater component of his reclining weight is directed by the bolster front wall downwardly upon the base of the bolster, and the base in turn forces the upholstering material 52 covering said base into frictional contact with the mattress cover 33. As has been specified both the said cover 33 and at least the bottom of the case 49 for the bolster part are constructed from upholstery material having rough facings. The interengagement of the facings of the said cover and case bottom together with the downward force exerted on the bolster when it is in operative back supporting condition provides an effective means for precluding rearward sliding movement of the accessory that stabilizes the accessory on the bed structure as a secure and comfortable back rest. It is also pointed out that the side and end panels for the mattress cover in no small measure assist in providing a practical back rest for my sofa bed in that the cover is thereby positioned on the mattress against edgewise movement.

When it becomes necessary to use the sofa illustrated in Fig. 1 or the chaise longue shown in Fig. 2 as a bed it is only necessary to remove the accessories 37 from the structure, and then remove the head pillows 45 therefrom through closures 55 provided in the accessory cases illustrated in Figs. 1–4 inclusive or through closure 59 when the accessory shown in Fig. 5 is used upon the bed structure. The cover 33 is then taken off the mattress 31 which would preferably expose a fully made-up mattress complete with bed clothing 32. By placing at the head of the bed one or more pillows 45 removed from the accessories the bed structure is immediately available for sleeping purposes.

What is claimed is:

1. In a sofa bed the combination of a frame, a box spring assembly extending above the frame at least along the front and rear edges thereof, a mattress upon the spring assembly, means for reenforcing that portion of the spring assembly along the front and rear edges of the mattress, a fabric mattress cover having a comparatively rough facing, means for removably securing the cover on the mattress against edgewise movement, and a number of back rests disposed in a row upon the back edge portion of the covered mattress and each rest comprising a resilient and relatively dense, form retaining bolster part having a flat, stabilizing bottom wall, a soft, pliable forepart for the bolster, and a fabric case enclosing the parts and maintaining said parts in fixed relative positions, said case having a comparatively rough facing on at least its bottom wall in frictional contact with the back edge portion of the said mattress cover for maintaining the bolster part in position upon the back edge portion of the covered mattress.

2. In a sofa bed the combination of a frame, a box spring assembly extending above the frame at least along the front and rear edges thereof, a mattress upon the spring assembly, means for reenforcing that portion of the spring assembly along the front and rear edges of the mattress, a fabric mattress cover having a relatively rough facing, means for removably securing the cover on the mattress against edgewise movement, and a number of back rests disposed in a row upon the back edge portion of the covered mattress and each rest comprising a resilient and relatively dense, form retaining back part, said back part having a flat, stabilizing bottom wall and an upwardly extending, rearwardly inclined front wall, a soft, pliable forepart disposed against the front wall and coextensive with the back part, and a fabric case enclosing the parts and maintaining said parts in fixed relative positions, said case having a relatively rough facing on at least its bottom portion in frictional contact with the back edge portion of the said mattress cover for maintaining the back rest upon the back edge portion of the covered mattress.

3. A back rest for a sofa bed comprising a resilient and relatively dense, form retaining bolster part, said part having a box-like form and provided with a flat, stabilizing bottom wall, a soft, pliable pillow part positioned in front of the bolster part, and a case enclosing the parts and adapted to maintain the parts in juxtaposition.

4. A back rest for a sofa bed comprising a resilient and relatively dense, form retaining bolster part having a generally box-like shape and provided with a flat, stabilizing bottom wall and an upwardly extending rearwardly inclined front wall, a soft, pliable pillow part unattached to, and positioned in front of, the bolster part, and a case enclosing the parts and adapted to maintain the parts in juxtaposition.

5. A back rest for a sofa bed according to claim 4 characterized by the fact that a closure means is formed in the case for the removal of the back rest parts.

6. A back rest for a sofa bed according to claim 4 characterized by the fact that the case has two separate, attached compartments, each shaped to closely fit its respective back rest part.

7. A back rest for a sofa bed according to claim 6 further characterized by the fact that a closure means is formed at least in the case portion forming the compartment for the pillow part.

8. A back rest for a sofa bed comprising a resilient and relatively dense bolster part, said part having an elongated body substantially trapezoidal in lateral section, said part further having a flat base and a front wall inclined upwardly and rearwardly from the said base, a soft and pliable forepart positioned in front of, and coextensive with, the front wall of the bolster part, the forepart having an ovoid shape in lateral section, and a case enclosing the parts and adapted to maintain them in juxtaposition.

9. A back rest for a sofa bed comprising a resilient and relatively dense bolster part, said part having an elongated body substantially trapezoidal in lateral section, said part further having a flat base and a front wall inclined upwardly and rearwardly from the said base, an independently formed soft and pliable forepart positioned in front of, and coextensive with, the front wall of the bolster part, the forepart having an ovoid shape in lateral section, a case enclosing the parts and adapted to maintain them in juxtaposition, and a closure means in the case for the removal of the back rest parts.

10. A back rest for a sofa bed comprising a resilient and relatively dense bolster part, said part having an elongated body substantially trapezoidal in lateral section, said part further having a flat base and a front wall inclined upwardly and rearwardly from the front edge of said base, an independently formed soft and pliable forepart positioned in front of, and coextensive with, the front wall of the bolster part, the forepart having an ovoid shape in lateral section, a two compartmented case having one compartment for snugly enclosing the bolster part, a closure means for the said compartment, the second compartment being adapted to enclose the said forepart, closure means for the said second compartment, and means for securing the compartments together along their upper portions.

11. A back rest for a sofa bed comprising a resilient and relatively dense bolster part, said part having an elongated body substantially trapezoidal in lateral section, said part further having a flat base and a front wall inclined upwardly and rearwardly from the front edge of said base, an independently formed soft and pliable forepart positioned in front of, and coextensive with, the front wall of the bolster part, the forepart having an ovoid shape in lateral section, a two compartmented case having one compartment for snugly enclosing the bolster part, a closure means for the said compartment, the second compartment being adapted to enclose the said forepart, closure means for the said second compartment, and means for securing the compartments together.

HARRY A. BACKUS.

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