Aug. 15, 1961 C. T. KINSMAN 2,996,333

PORTABLE HEADREST

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Fig. 1.

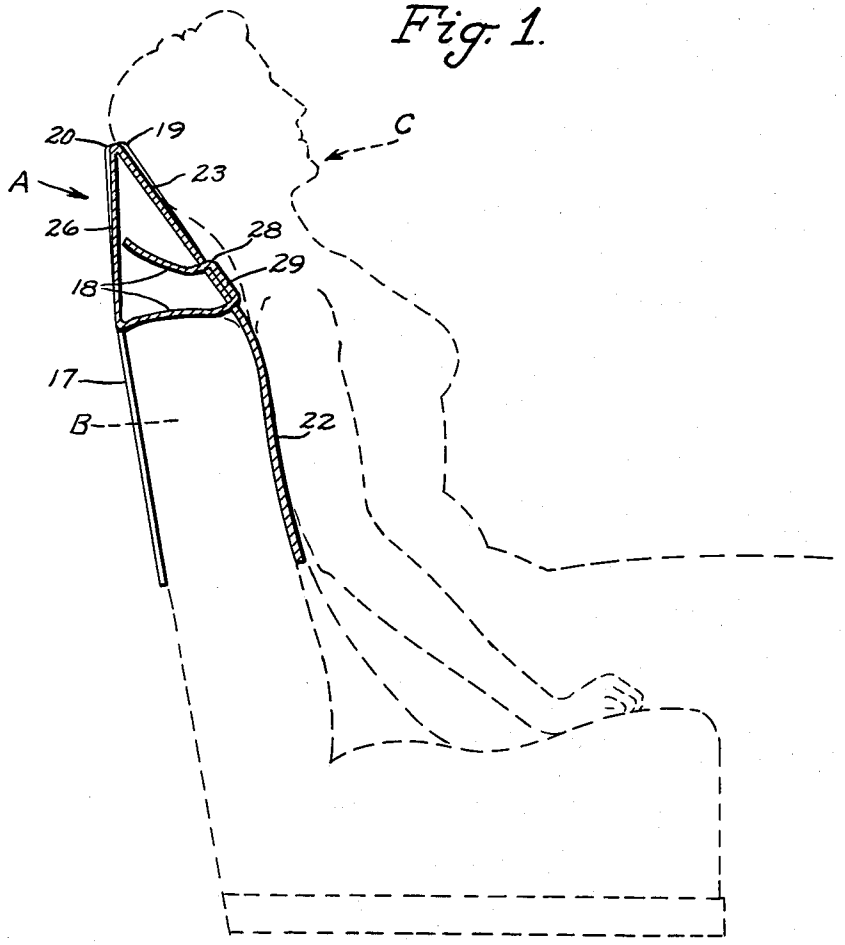
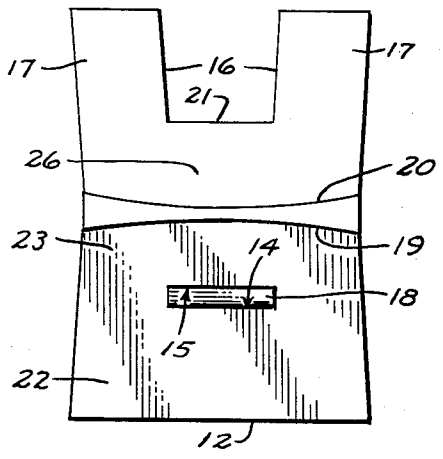


Fig. 2.



CALVIN T. KINSMAN
INVENTOR

BY Rommel, Allen & Rommel
ATTORNEYS

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Fig. 3.

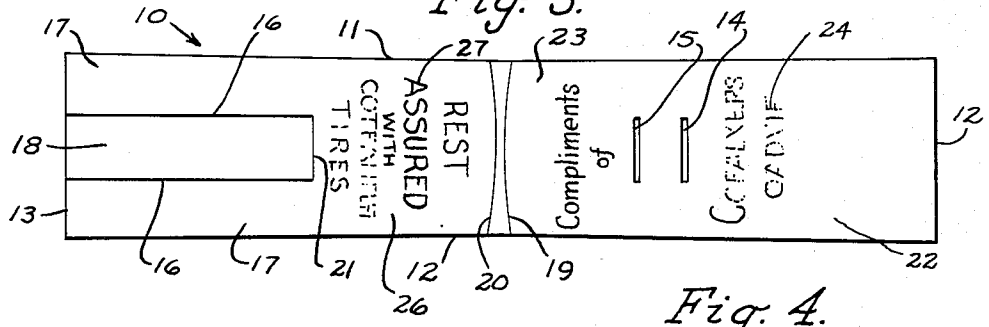


Fig. 4.

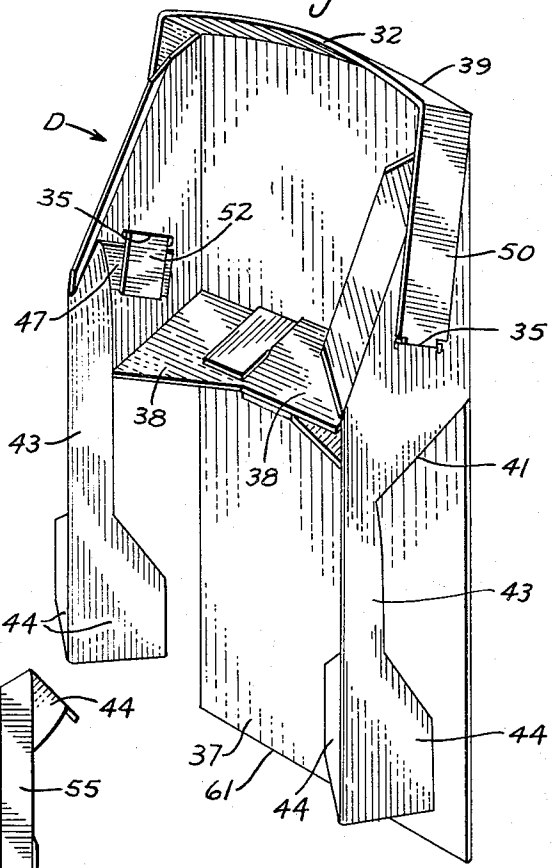
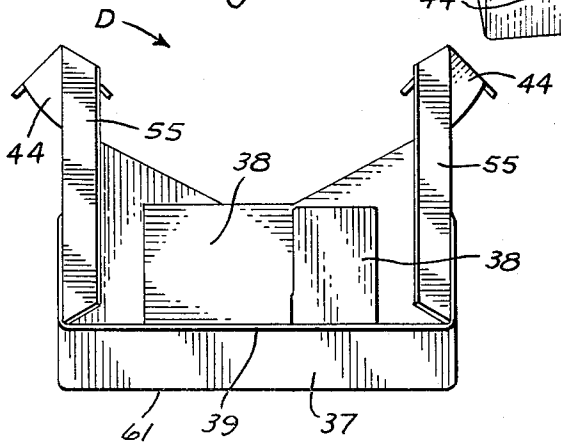


Fig. 5.



CALVIN T. KINSMAN
INVENTOR

BY Rommel, Allwine & Rommel
ATTORNEYS

Aug. 15, 1961 C. T. KINSMAN 2,996,333

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Fig. 7.

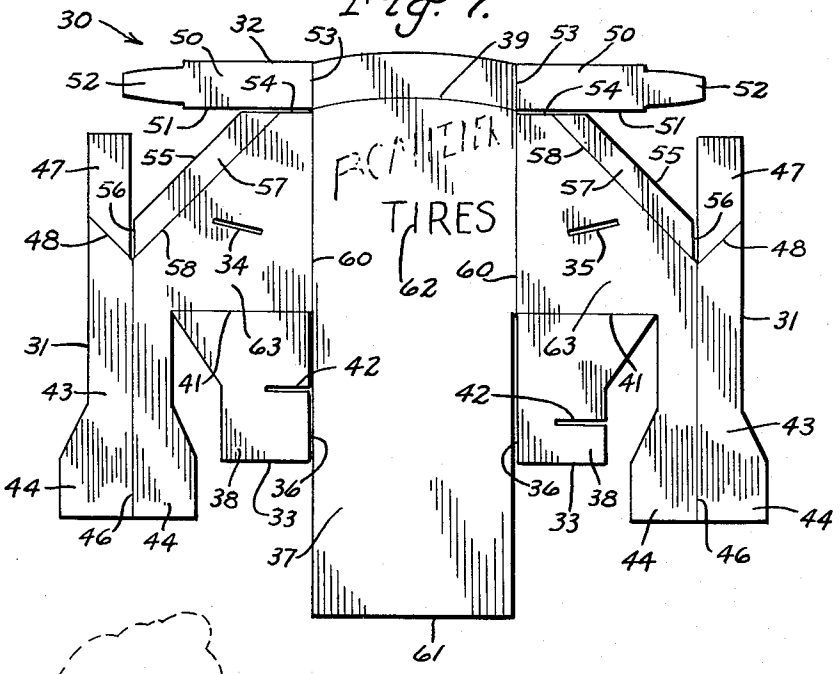
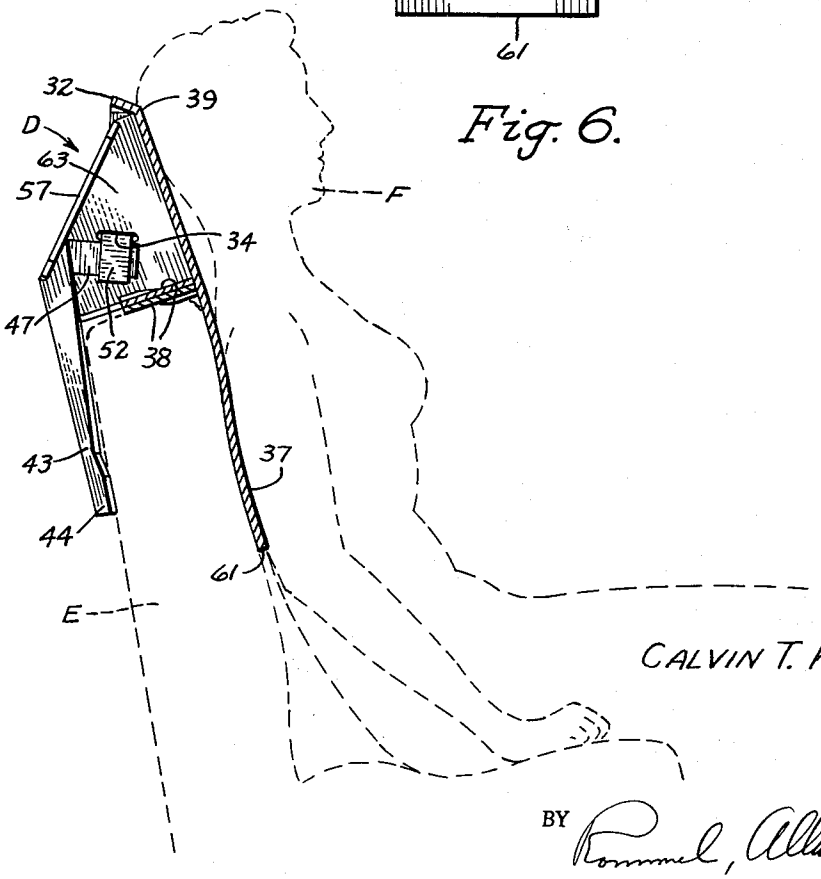


Fig. 6.



CALVIN T. KINSMAN
INVENTOR

BY Rommel, Allen & Rommel
ATTORNEYS

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2,996,333

PORTABLE HEADREST

Calvin Theodore Kinsman, 5855 SW. 73rd St., South Miami, Fla.

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5 Claims. (Cl. 297—399)

This invention relates to portable head rests. An example of the use of such head rests is as a removable device for support upon the back of a seat, as an automobile seat, for increasing the height of the back so that the back of the head of an occupant rests against the device.

An important object of the invention is to provide a portable, readily knocked down head rest, whereby the head rests may be folded into compact, relatively flat articles for transportation, storing, disposal in stacks and handling, and may be set up for use within a few moments of time.

Another important object is to provide a particularly light-weight head rest which is easily handled. For example, the entire head rest may weight between six ounces and one-half pound.

Still another important object is to provide a head rest which is constructed of inexpensive material, may be readily stamped, die cut or otherwise formed from a sheet of such material and set up without the use of screws, nails, bolts and the like, or set up without the use of tools.

An additional important object is to provide a head rest which may be printed, stencilled or otherwise provided with advertising and/or other indicia.

Furthermore, an important object is to provide a head rest which may be correctly set up or knocked down without requiring detailed or intricate instructions.

Other objects and advantages of the invention will be apparent during the course of the following detailed description of the invention, taken in connection with the accompanying drawings, forming portions of the disclosure and in which drawings:

FIGURE 1 is a vertical sectional view of one form of the invention disposed upon a seat back and in use.

FIGURE 2 is a top plan view of the head rest of FIGURE 1 removed from a seat back.

FIGURE 3 is a collapsed or knocked down plan view of the head rest.

FIGURE 4 is a perspective view of another form of the head rest.

FIGURE 5 is a top plan view of the head rest of FIGURE 4.

FIGURE 6 is a vertical sectional view through the head rest of FIGURES 4 and 5, disposed upon a seat back and in use.

FIGURE 7 is a collapsed or knocked down plan view of the head rest of FIGURES 4, 5 and 6.

In the drawings, wherein for the purpose of illustration are shown two forms of the invention and wherein similar reference characters designate corresponding parts throughout the several views, the letter A designates the head rest of FIGURES 1, 2 and 3; B, a seat back; C, user of the head rest; D, the head rest of FIGURES 4 to 7 inclusive; E, a seat back; and F, the user of the head rest D.

The head rests A and D each preferably comprise a single sheet of readily stamped or die cut material which may be scored, as cardboard, the laminated corrugated paper board commonly known as "jute on jute board" and like stiffened, self-sustaining fibrous materials, provided with fold or score lines, including curved fold lines to fit the back of the head of the user, tongues and slots cooperating therewith to form a substantially horizontal support, in the form of bridge means, for the head rest

in contact with the top portion of the back of a vehicle seat, while other portions of the head rest extend over both the front and back portions of the back of the seat.

The head rest A comprises the sheet **10** best shown in FIGURE 3, provided with opposite side edges **11** and opposite end edges **12** and **13**, and two spaced-apart tongue-receiving transverse slots **14** and **15**, spaced from the end edge **12**, extending toward the side edges **11** and relatively remote from the end edge **13**. Extending in substantial parallelism from this end edge **13**, and also paralleling and spaced from the side edges **11**, are two longitudinal slots **16** which divide the sheet area, adjacent this last-named end edge **13**, into three portions, i.e., two head rest leg portions **17** and a tongue portion **18** disposed between the portions **17**, and which forms a bridge.

Spaced inwardly from the end edge **12** is a curved score or fold line **19** and a curved score or fold line **20** which extend transversely of the sheet, preferably in arcuate curves, toward each other so that they are spaced apart their least distance at the longitudinal medial line of the sheet.

At the base of the tongue portion **18**, there is a score or fold line **21** so that the tongue may be folded over thereon.

Preferably, the disposition of the score or fold line **19** with relation to the end edge **12** is such that there is a relatively large area or sheet portion **22** and a smaller area or sheet portion **23** of the sheet for receiving indicia, if desired, as at **24** and **25** respectively, and between the score or fold lines **20** and **21** is an area or sheet portion **26** to receive indicia **27**, if desired. The portions **22** and **23** jointly constitute the front portion of the head rest, and is contacted by the back of the user of the device.

In setting up the head rest A, the sheet **10**, which is preferably of a heavy grade of laminated corrugated paper board, is folded along the score or fold lines **19** and **20** to form a somewhat inverted V-shape, and the tongue **18** is folded upon the score or fold line **21** and partly threaded into the slot **14**, whereupon the partly completed head rest is mounted upon the seat back B with the portions **17** extending over and in contact with the back of the seat back B, and the sheet portion **22** extending over and in contact with the front of the seat back. This will cause the tongue to adjust itself with relation to the slot **14**, so that the portion of the tongue **18** now in contact with the top edge of the seat back will provide bridge means between the leg portions **17** and the front portion and the remainder of the tongue may now be folded upwardly and threaded through the slot **15**, and be again folded at **28** (in FIGURE 1) and the free end portion of the tongue permitted to occupy the space above the bridge, substantially as may be seen in FIGURE 1. While there is a slight bulging of the tongue, as at **29** in FIGURE 1 on the outer forward face of the head rest, it will be noted that this bulge comes, in the case of the average person, to the rear of and spaced from the neck of the user of the head rest and will not interfere with the comfortable use of the head rest. The back of the user of the head rest will bear upon the portion **22**, which will conform to the curves of the back of the user, substantially as shown in FIGURE 1, and the user's head, where it contacts the head rest, will be at the curved line **19**, for comfort. As the head rest yields slightly, the head of the user will cause the head rest portion **22** to move more or less backwards which tends to lock the tongue **18** more firmly in place. After use, the tongue **18** is withdrawn from the slots **14** and **15** and the sheet folded on the score lines **19** and **20** to form a relatively flat article for storage, carriage and the like.

The two curved fold or score lines **19** and **20**, positioned as they are as best shown in FIGURE 2, tend to strengthen the head resting portion of the device and prevent this portion from collapsing with the weight of the head.

Referring now to the head rest D, of FIGURES 4 to 7 inclusive, the same comprises the sheet **30**, best shown in FIGURE 7, provided with opposite side edges **31** and opposite end edges **32** and **33**, and two spaced apart tongues-receiving slots **34** and **35**, spaced from the end edge **32** and remote from the end edge **33**. Extending in substantial parallelism from the end edge **33**, and also paralleling and spaced from the side edges **31**, are two slots **36** which divide the sheet, adjacent this last-named rear edge **33** into three parts, i.e., two tongues **38** and the front portion **37** of the head rest D and is contacted by the back of the user of the device. The portion **37** is disposed in the sheet **30** between the two tongues **38** which subsequently form bridge means between the front portion of the head rest D and is contacted by the back of the user of the device.

Spaced inwardly from the central curved portion of the edge **32** is a curved score or fold line **39** which extends transversely of the sheet and substantially parallels the curved portion of the edge **32**.

At the bases of the tongue portions **38** are score or fold lines **41** so that the tongues may be folded over thereon, as will be subsequently described. Extending from the intermediate portion of each of the slots **36** is a relatively short slot **42**, being normal to the slots **36**, for purposes later detailed.

Corresponding to the two head rest back portions **17** of the head rest A, are the two head rest leg portions **43** which are enlarged at their free end parts **44** to provide seat back contacting parts, since they may be folded over on their elongated score or fold lines **46** to form substantially V's in transverse section. The end parts of the outermost of the portions **43** extend into tabs **47** and have diagonally-disposed fold or score lines **48** for cooperation with parts of two tongues **50** to be next described.

The two tongues **50**, defined in part by the outer parts of the edge **32** and an edge **51** substantially paralleling that edge, but preferably with reduced free ends **52**, have fold or score lines **53** extending from the edge **32** to the line **39** and are adapted to have their free ends **52** tucked into the slots **35**.

Substantially paralleling the inner ends of the edges **51** are edges **54** and the outer portions thereof, together with edges **55**, extending diagonally therefrom. Together with a short edge **56**, they define flange portions **57** which are foldable on the fold or score lines **58** (which substantially parallel the adjacent edges **55** and divide the flange **57** from the wing portions **63**).

Extending from the inner ends of the slots **36** to the inner ends of the edges **54** are fold or score lines **60** and these, together with the line **39** and edge **61**, opposite the edge **32**, define an area or portion which constitutes the front of the head rest and may contain indicia **62**.

In setting up the head rest D, the sheet **30** may be folded along the lines **60** and **46** to position the wing portions **63** facing each other, then folded on the lines **41** to position the tongues **38** substantially horizontal and overlapping, with the free end portion of one tongue interlocked with the free end portion of the other tongue by means of the slots **42** (one being offset from the other, as shown in FIGURE 7), thus providing bridge means between the front portion of the head rest D and the leg portions **43** to contact the upper edge of the seat back. The folding of the head rest leg portions **43** upon the lines **46** will cause the portions **47** to extend along the inner faces of the wing portions **63** first folded over. The tongues **50** are now folded over along the outer faces of the wing portions **63**, with the free end portions **52** of the tongues **50** tucked through the slots **34** and **35** so that these free end portions will overlay the portions **47** and retain them against the inner faces of the wing portions **63**. Finally, the flanges **57** are folded along the fold lines **58** to position them substantially normal to the wing portions and this tends to also retain the portions **47** in place, since the lines **48** will contact the lines **58**.

In both forms of the invention, the head rest preferably comprises a single sheet of inexpensive pliable fibrous material which is not, however, intended primarly as cushioning means but means which is adapted to conform to the back of the user and the back of the seat, in order to provide a secure head rest, while the uppermost portion of the folded sheet, above the portion which conforms to the back of the user, merges into this last-named portion and provides the head-contacting portion at the curved edges formed by the score or fold lines **19** or **39**, as the case may be.

The head rests may be printed upon, transported, stacked and sold or given away to be subsequently set up by the user or another.

Various changes in the size, shape and arrangement of parts may be made to the forms of invention herein shown and described, without departing from the spirit of the invention or scope of the claims.

I claim:

1. A portable head rest of self-sustaining fibrous material for a seat back having a front face, a back face and an upper edge, said head rest including an upwardly-extending front sheet portion, a head-contacting sheet portion merging into the upper part of the front sheet portion, legs disposed to the rear of the front sheet portion, and manually foldable bridge means connecting the front portion, intermediate the height thereof, and said legs at the upper ends of said legs and forming substantially a right angle with said front sheet portion and said legs, whereby said front sheet portion may contact the front face of a seat back, said legs may extend along the back face of said seat back and said bridge means may be disposed in face contact with and upon the upper edge of said seat back.

2. A portable head rest according to claim 1 characterized in that said front sheet portion is provided with a pair of spaced-apart transversely-extending slots and said bridge means is a tongue extending forwardly with an intermediate portion thereof disposed in one of said slots and the first next adjacent intermediate portion thereof extending over a portion of the front face of said front sheet portion, the second next adjacent intermediate portion thereof extending through the other of said slots and the free end portion of said tongue extending away from said front sheet portion.

3. A portable head rest according to claim 2 characterized in that said head-contacting sheet portion is provided with a head contacting curved edge and a curved edge spaced from said first curved edge, the curves of said edges closely approaching each other at the longitudinal axis of said head rest, whereby said head-contacting sheet portion is strengthened by the relative positions of said edges against the weight of the head of a user of said head rest.

4. A portable head rest of self-sustaining fibrous material for a seat back having a front face, a back face and an upper edge, said head rest including an upwardly-extending front sheet portion; a head-contacting sheet portion merging into the upper part of the front sheet portion, and provided with a pair of tongues having main portions and tabs at the free ends thereof; two wing portions extending rearwardly from said front portion in spaced-apart facing relationship, one with the other, and each provided with a horizontal slot; legs disposed to the rear of the front sheet portion and each provided with a tab extending diagonally forwardly therefrom and in face contact with the inner faces of said wing portions and extending to positions immediately below the slots of said wing portions; with said main portions of said tongues extending over the outer faces of said wing portions and the

tabs thereof extending through said slots of said wing portions and over and in contact with the tabs of said legs immediately below the slots of said wing portions; and manually-foldable bridge means connecting said front sheet portion, intermediate the height thereof, and said legs at the upper ends of said legs, comprising two other tongues, each provided with a slot extending from the intermediate portion of an edge of the tongue thereof, with said other tongues interlocked at the slot of each tongue thereof, whereby said front sheet portion may contact the front face of a seat back, said legs may extend along the back face of said seat back and said bridge means may be disposed in face contact with and upon the upper edge of said seat back.

5. A portable head rest of self-sustaining fibrous material for a seat back having a front face, a back face and an upper edge, said head rest including an upwardly-extending front sheet portion; a head-contacting sheet portion merging into the upper part of the front sheet portion, and provided with a pair of tongues having main portions and tabs at the free ends thereof; two wing portions extending rearwardly from said front portion in spaced-apart facing relationship, one with the other, and each provided with a horizontal slot, and inwardly extending flanges at the upper ends of said head-contacting sheet portion; legs disposed to the rear of the front sheet portion and each provided with a tab extending diagonally forwardly therefrom

and in face contact with the inner faces of said wing portions and extending to positions immediately below the slots of said wing portions; with said main portions of said tongues extending over the outer faces of said wing portions and the tabs thereof extending through said slots of said wing portions and over and in contact with the tabs of said legs immediately below the slots of said wing portions; and manually foldable bridge means connecting said front sheet portion, intermediate the height thereof, and said legs at the upper ends of said legs, comprising two other tongues, each provided with a slot extending from the intermediate portion of an edge of the tongue thereof, with said other tongues interlocked at the slot of each tongue thereof, portions of said flanges of said wing portions being in contact with said legs at the tabs thereof, whereby said front sheet portion may contact the front face of a seat back, said legs may extend along the back face of said seat back and said bridge means may be disposed in face contact with an upon the upper edge of said seat back.

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