Feb. 17, 1953 D. McDONALD 2,628,660

CHAIR AND SEAT AND BACK THEREFOR

Filed Jan. 11, 1950 2 SHEETS--SHEET 1

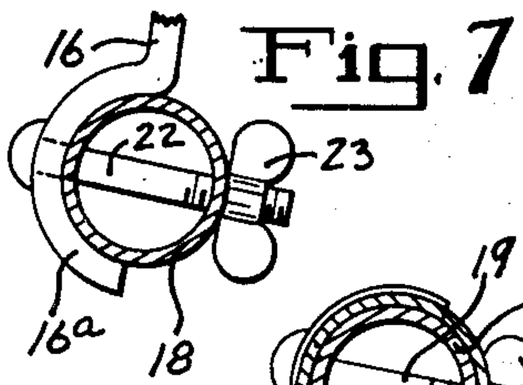

Fig. 7

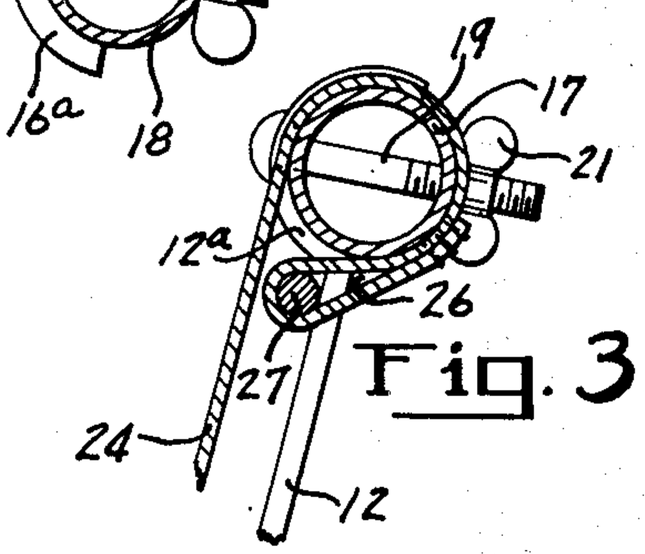

Fig. 3

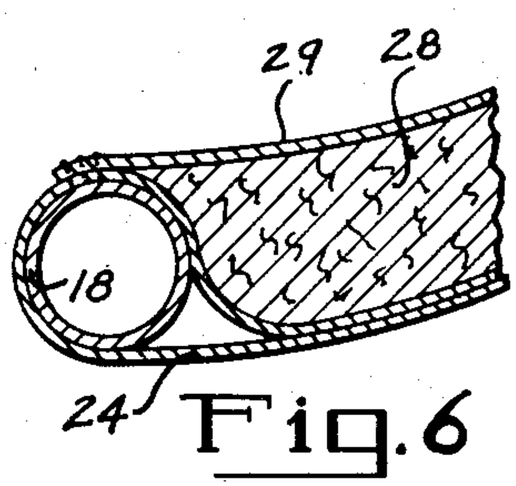

Fig. 6

Fig. 2

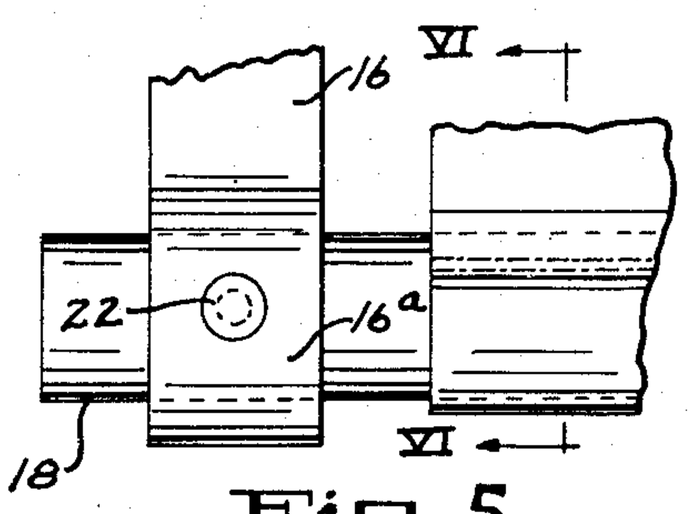

Fig. 5

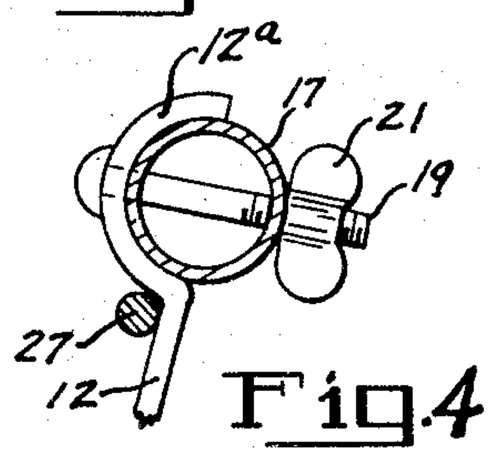

Fig. 4

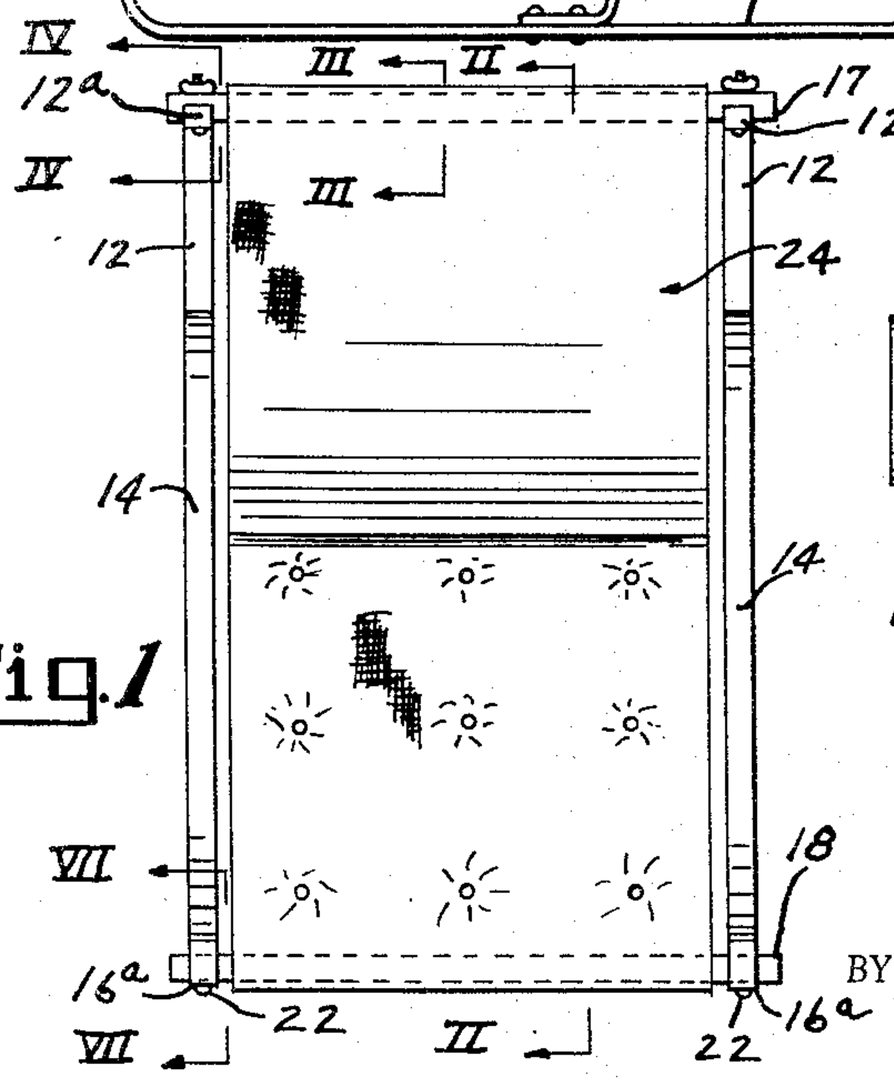

Fig. 1

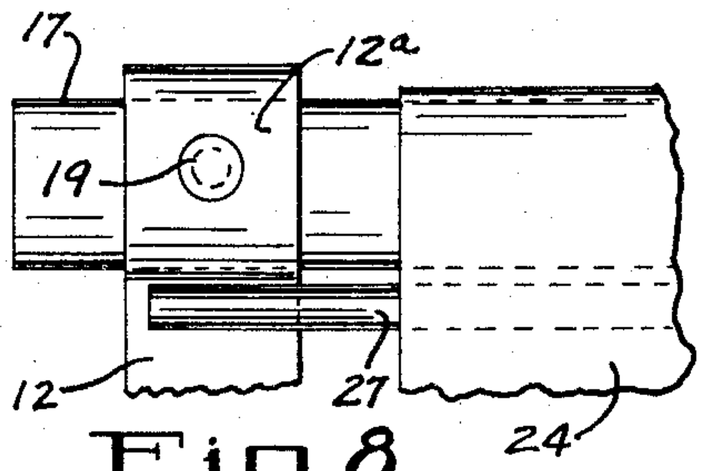

Fig. 8

INVENTOR
DAVID McDONALD

BY Jennings & Carter

ATTORNEYS

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Fig. 15

Fig 16

Fig. 11

Fig. 12

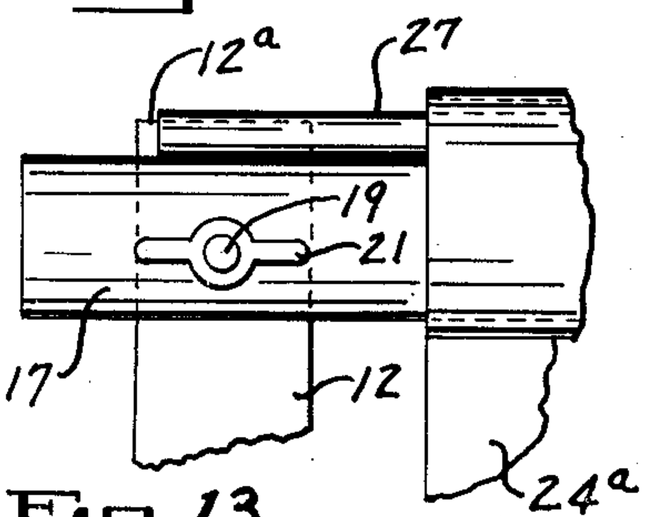

Fig. 13

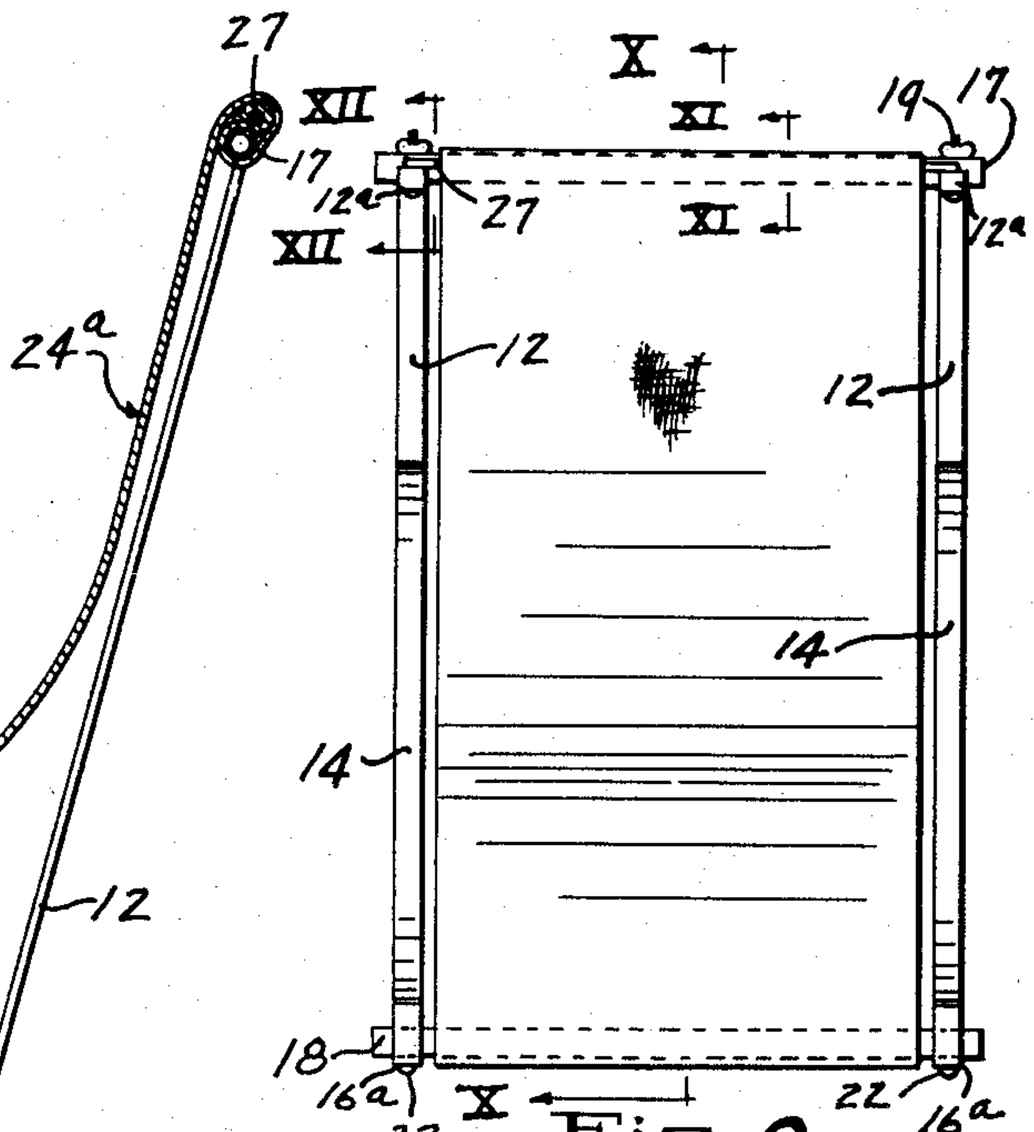

Fig. 9

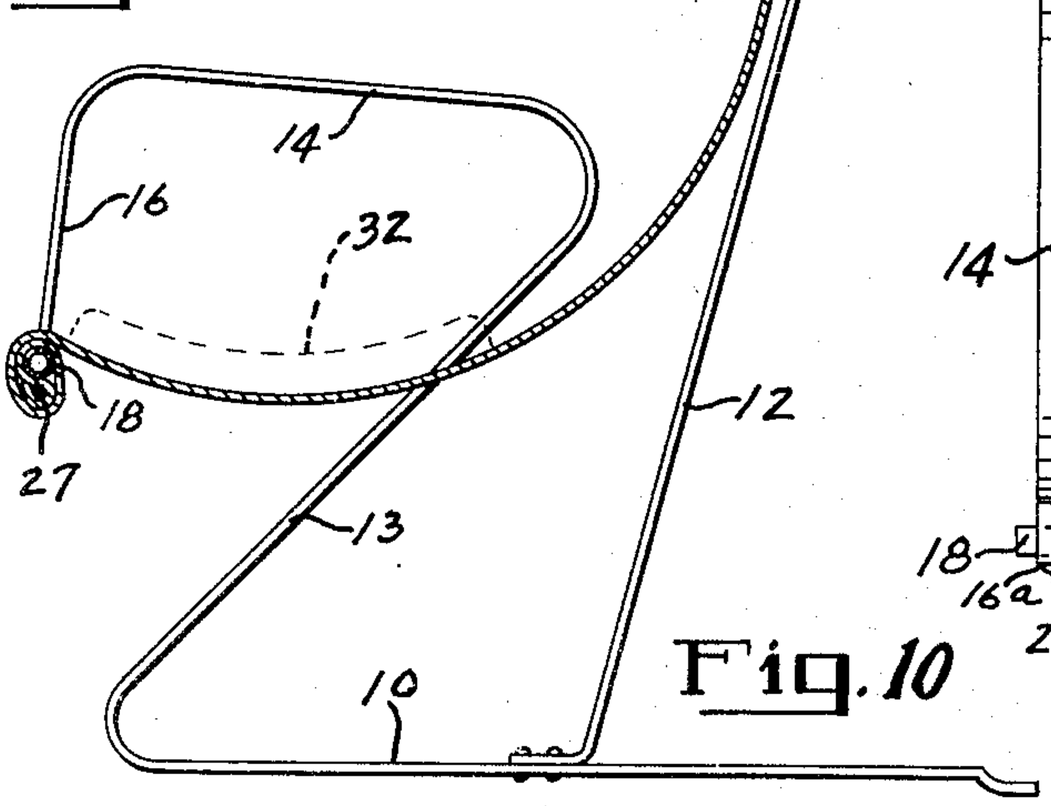

Fig. 10

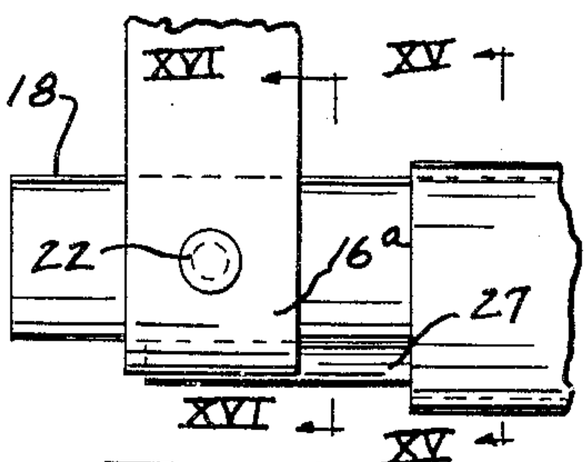

Fig. 14

INVENTOR.
DAVID McDONALD
BY
Jennings & Carter
ATTORNEYS

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CHAIR AND SEAT AND BACK THEREFOR

David McDonald, Birmingham, Ala.

Application January 11, 1950, Serial No. 138,017

2 Claims. (Cl. 155—53)

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My present invention relates to a chair and to an improved seat and back therefor.

An object of my invention is to provide, in a chair, a seat and back structure comprising a sheet of flexible material such as cloth, plastic or the like which may be quickly and easily attached to and removed from a chair frame, permitting the seat and back to be removed for storing indoors when desired in order to preserve the seat and back, and facilitating the removal of the seat and back for cleaning, repair and for similar purposes.

My invention contemplates a seat and back for a chair comprising a sheet of cloth or material of similar characteristics as to flexibility and strength in which the upper end of the back portion is provided with a bight or loop disposed to receive a rod or the like, the ends of the rod being adapted to bear against portions of the side frame members of the chair thereby to secure the flexible back to the chair, and a seat portion carrying a similar bight through which passes a cross rod likewise adapted to cooperate with the side frames of the chair adjacent the front of the seat in holding the front end of the combined seat and back to the chair frame.

My invention further contemplates a combined seat and back made of fabric or the like in which the seat portion carries a pillow whereby the seat may be connected to the front of the chair frame by folding the pillow carrying portion under and then over the front cross member of the chair frame, thus to effectively secure the entire seat to the frame without the necessity of employing the aforementioned cross rod at the front or seat portion of the chair.

My invention contemplates a seat and back comprising a sheet of flexible material which may be attached to the chair by means of members which merely engage rather than pass through or are otherwise attached to the chair frame members, thereby making the seat and back readily removable.

A further object is to provide a flexible seat and back structure of the character designated in which the pillow is carried in an elongated bight formed in the seat end of the flexible sheet of material, thus making an integral assembly of the seat, back and pillow.

A chair and a seat and back therefor illustrating the features of my invention is shown in the accompanying drawings forming a part of this application in which:

Fig. 1 is a plan view of a chair embodying my improved seat and back;

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Fig. 2 is a detail sectional view taken generally along lines II—II of Fig. 1;

Fig. 3 is a detail sectional view taken along line III—III of Fig. 1;

Fig. 4 is a detail sectional view taken along line IV—IV of Fig. 1;

Fig. 5 is a fragmental front elevational view of one corner of the seat portion of the seat and back and the associated chair framework adjacent thereto:

Fig. 6 is a detail sectional view taken along line VI—VI of Fig. 5;

Fig. 7 is a detail sectional view taken along line VII—VII of Fig. 1;

Fig. 8 is a fragmental front elevational view of a portion of the back of the seat and back and associated framework;

Fig. 9 is a view corresponding to Fig. 1 and showing a slightly modified form of my invention;

Fig. 10 is a detail sectional view taken along line X—X of Fig. 9;

Fig. 11 is a detail sectional view taken along line XI—XI of Fig. 9;

Fig. 12 is a detail sectional view taken along line XII—XII of Fig. 9;

Fig. 13 is a fragmental rear elevational view of one of the corners of the back of the seat and back and associated framework of the chair shown in Fig. 9;

Fig. 14 is a front elevational view showing a detail of one of the corners of the seat portion and associated framework;

Fig. 15 is a detail sectional view taken generally along line XV—XV of Fig. 14; and,

Fig. 16 is a detail sectional view taken along line XVI—XVI of Fig. 14.

Referring now to the drawings for a better understanding of my invention, and more particularly to Figs. 1 to 8 inclusive I show my improved seat and back associated with a chair embodying the features of the chair shown, described and claimed in my co-pending application, Serial No. 6,899, filed February 7, 1948, now Patent No. 2,557,671. As shown, the chair frame comprises a pair of base members 10 and a pair of spaced upwardly disposed rear frame members 12. Each member 10 continues forwardly and is inclined upwardly and rearwardly to provide portions 13, is then bent forwardly and substantially horizontal to provide arm portions 14, and thence downwardly to provide substantially vertically depending portions 16. The upper ends of the rear side members 12 are joined by a cross bar 17 and the depending portions 16 are joined by

a front cross bar 18, forming the front of the seat portion of the chair.

In the manner disclosed in my abovementioned co-pending application, the upper ends of the members 12 are provided with semi-cylindrical clamp portions 12*a* disposed to partially encircle the upper cross member 17. A bolt 19 passes through the clamps and has thereon a nut 21 to secure the members 12 to the ends of the cross bar 17.

In similar manner to that just described, the portions 16 are provided with the curved clamps 16*a* on their ends disposed to partially encircle the front cross bar 18. A bolt 22 having thereon a nut 23 secures the members 16 to the ends of the cross bar 18.

My improved seat and back comprises a sheet of flexible material 24 such as cloth, plastic or the like. At the upper end of the back portion I provide a bight or loop 26. Disposed in the bight 26 is a cross rod 27 which is adapted to project past the edges of the seat and back 24 whereby its outer ends overlie the front of the members 12 in the manner clearly shown in Fig. 8. Thus, when the upper end of the back portion of the seat and back member is wrapped about the cross member 17 in the manner illustrated in Figs. 2 and 3, the rod 27 is slid into the bight, its ends resting against the members 12 approximately at the point of bend of the sections 12*a*, thus securely holding the upper end of the back to the cross rod 17.

In the form of my invention now being described I preferably form in the seat portion of the sheet 24 a rearwardly elongated bight 28. In this bight I sew or otherwise secure a sufficient amount of stuffing to form a pillow indicated at 29. Alternately, I may provide the bight 28 and insert a removable pillow. With the upper end of the back secured to the cross member 17 in the manner already explained I secure the seat portion to the cross member 18 by folding the pillow carrying portion under and over the cross rod 18 as illustrated in Figs. 2 and 6. It will be seen that when a person sits on the pillow the weight of the body causes both of the ends of the seat and back to tighten about the rods 17 and 18, thus holding the seat and back firmly to the two cross members.

In Figs. 9 to 16 inclusive I show a slightly modified form of my invention in which the seat and back is identical at the back and seat ends. In this arrangement I provide a sheet 24*a* of flexible material such as cloth already mentioned and sew in each end thereof a small bight 31. In each of the bights 31 I place one of the cross rods 27. As before stated, the rods 27 are longer than the width of the sheet of material forming the seat and back whereby the ends thereof project beyond the width of the sheet. As shown in the detail views of the drawings, I assemble this modification of the seat and back by wrapping the upper and lower ends about the cross members 17 and 18, respectively. The rods 27 are put in place and project outwardly to engage the ends of the clamps 16*a* and 12*a* in the manner clearly illustrated in Figs. 12 and 16. The seat and back ends of the sheet of material 24*a* are thus effectively secured to the framework of the chair, and yet may be quite easily removed simply by loosening the sheet by unwinding the same from around the cross members 17 and 18 and withdrawing the rods 27.

In the modification of the invention shown in Figs. 9 to 16 inclusive it will be seen that the ends of the seat and back are duplicates, and if desired a pillow 32, indicated in dotted lines Fig. 10, and which is separate from the sheet of material 24*a* may be employed by laying the same in place.

From the foregoing it will be apparent that I have devised an improved chair embodying an improved seat and back which is simple and economical of manufacture and which may be readily attached to and detached from a chair frame. While I have shown the same in association with a particular form of chair frame it will be apparent that my improved seat and back may be associated with other forms of chair frames. However, there is a definite advantage in associating the same with the type of chair frame shown and described in my above mentioned co-pending application in that the depressions formed at the point of juncture between the rear members 12 and the clamps 12*a* serve admirably to provide a seat for the ends of the rod 27 at the back of the seat and back structure. Likewise, and as will be apparent, the clamps 12*a* and 16*a* afford adequate abutments for the ends of the rods 27 when using the modification of my invention shown in Figs. 9 to 16 inclusive.

While I have shown my invention in but two forms, it will be obvious to those skilled in the art that it is not so limited, but is susceptible of various changes and modifications, without departing from the spirit thereof, and I desire therefore, that only such limitations shall be placed thereupon as are specifically set forth in the appended claims.

What I claim is:

1. In a chair embodying base members connected to rearwardly disposed upwardly extending frame members joined adjacent their upper ends by a cross member and other frame members connected to said base members and joined by a cross member at the front of the seat portion of the chair, a seat and back structure comprising a sheet of flexible material having a bight in one end thereof and having a portion extending downwardly from the bight to form the back rest of the chair, said end carrying the bight being wrapped about the upper cross member, a cross rod in the bight having ends projecting past the edges of the sheet and engaging the forward sides of the rearwardly disposed frame members, an elongated bight extending from said back rest to the front of the chair and having an end portion wrapped around and secured to the second mentioned cross member, and a quantity of stuffing material cooperating with the second mentioned bight to form a cushion-like seat member for the chair.

2. In a chair embodying base members connected to rearwardly disposed upwardly extending frame members joined adjacent their upper ends by a cross member and other frame members connected to said base members and joined by a cross member at the front of the seat portion of the chair, said frame members having semi-cylindrical clamps on the ends thereof receiving and supporting said cross members, a seat and back structure comprising a sheet of flexible material, a bight in the end of the sheet of material at the back portion thereof, the bight end of the sheet partially encircling the first mentioned cross member, a cross rod in said bight having projecting ends engaging portions of the rearwardly disposed frame members and holding the sheet about said first mentioned

cross member, a rearwardly extending elongated bight at the seat end of the sheet, and a cushion in said elongated bight, the seat portion of the sheet being attached to the second mentioned cross member by passing the cushion under and then over said second mentioned cross member.

DAVID McDONALD.

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