F. O. WHITE.

VENTILATED UPHOLSTERED FURNITURE.

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1,339,611.

Patented May 11, 1920.

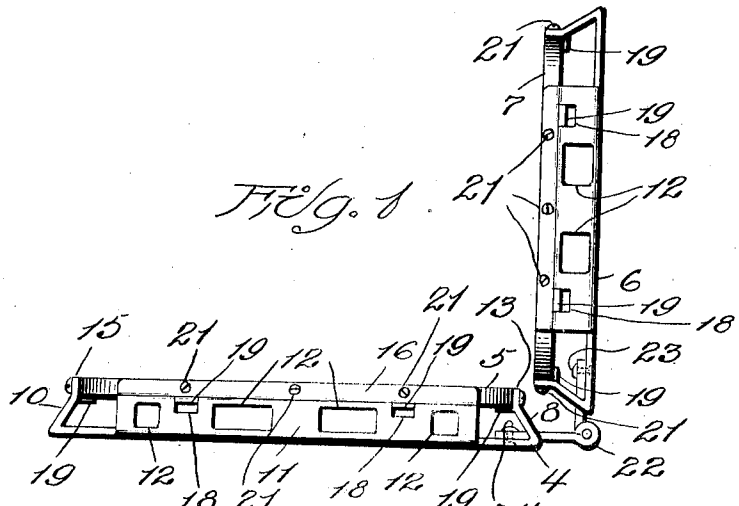


Fig. 1.

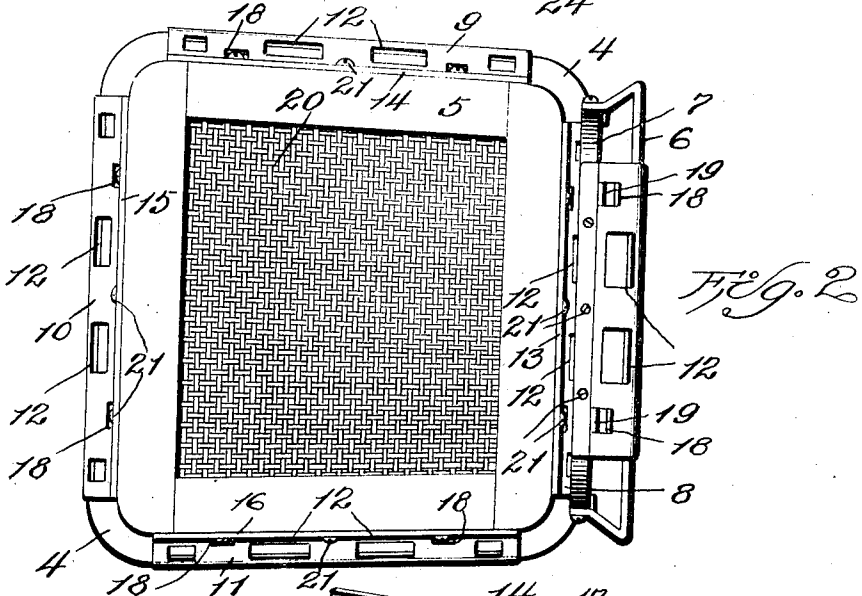


Fig. 2.

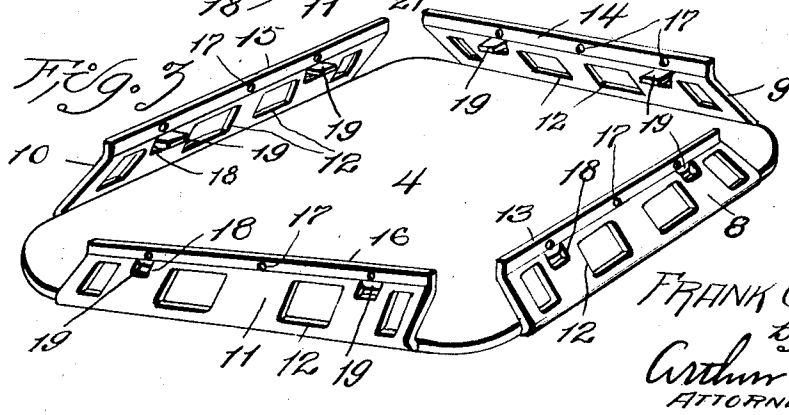


Fig. 3.

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VENTILATED UPHOLSTERED FURNITURE.

1,339,611. Specification of Letters Patent. Patented May 11, 1920.

Application filed December 15, 1919. Serial No. 345,062.

To all whom it may concern:

Be it known that I, FRANK ORMOND WHITE, a citizen of the United States of America, residing at 420 North High street, Belleville, St. Clair county, Illinois, have invented certain new and useful Improvements in Ventilated Upholstered Furniture, of which the following is a specification.

The object of my invention is to fabricate a seat and back for furniture which will be aerated, preventing the sticking of the user's clothing to the seat and back of chairs, lounges, etc., in warm weather. My present invention constitutes an improvement over my invention described in patent application, Serial No. 310,454, filed July 12th, 1919, for ventilated upholstered furniture.

In the conventional seat, the user in hot weather, due to perspiration, becomes very uncomfortable, particularly where he is compelled to remain in one seat for any considerable length of time. An automobile driver, particularly where the limits of his bodily movements are small and where he drives for hours continuously, becomes very uncomfortable in hot weather, owing to the lack of air circulation in and around the seat and back.

My purpose is accomplished by providing an air space immediately under the seat and back, whereby the air can pass, as well as a perforated member, as cane or leather by which the air may pass from the air space to the person of the user. My invention concerns itself with an auxiliary or portable seat and back. Instead of requiring three principal elements for the seat and three principal elements for the back; that is to say, a base plate, seat element, and supports or spacers holding them in spaced relationship for the seat, and a back plate, a back element, and supports holding the back plate and back element in spaced relationship, for the back, in my present structure I provide but two principal elements each for the seat and back; the base plate is constructed of metal with the sides bent over to form the supports or spacers and portions removed for ventilating purposes, as will be subsequently described, and portions partially stamped out and bent over to provide ledges or brackets for the seat proper. The back plate has its sides likewise bent over and portions stamped out for similar purposes. This conduces to simplicity in manufacture, accomplishes the same result as my aforesaid invention, and can be more cheaply manufactured.

With the above and other objects in view, my invention has relationship to certain novel features of construction and operation, examples of which are described in the following specification, and illustrated in the accompanying drawings in which—

Figure 1 is a side elevation of my device.

Fig. 2 is a plan of my device, and

Fig. 3 is a perspective of the base plate of my device.

Numeral 4 designates the base plate, numeral 5 the seat element, numeral 6 the back plate, and numeral 7 the back. The base plate 4 has its sides bent, as shown in Fig. 3. I have designated these bent portions by numerals 8, 9, 10 and 11 respectively. In these bent portions 8 to 11 respectively are formed the aerating holes 12. The external edges of these bent portions are likewise bent, as is shown in Fig. 3, to form the vertical strips 13, 14, 15 and 16 respectively. In these vertical strips are punched the holes 17. In the bent edges 8, 9, 10 and 11 are punched the holes 18, the removed portions being bent to form the ledges or brackets 19, as shown in Fig. 1. The seat 5 has formed in its center the perforations or reticulated element 20, which is firmly secured in the seat 5. The seat 5 is of such size and shape relative to the space existing between the vertical strips 13, 14, 15 and 16 that it fits snugly when positioned as shown in Fig. 1, being supported by the ledges or brackets 19. The seat 5 is of such thickness that its upper surface will be positioned flush and in alinement with the strips 13, 14, 15 and 16, as shown in Fig. 1. By this manner the seat 5 is secured in concentric fixed spaced relationship with the base plate 4. The seat 5 is permanently secured to the base plate 4 by means of the screws 21.

Likewise the back element 6 has its edges bent so as to form vertical strips similar to strips 13, 14, 15 and 16, which strips are likewise perforated with holes, such as 17. Aerating holes are also formed in the back plate, as well as ledges similar to 19. The back has also formed in it a perforated or reticulated member similar to 20. By means of screws, such as 21, the back is secured to the back plate just as the seat is screwed to the seat plate.

The back plate and base plate are secured in operative relationship by the hinges or

springs 22, which are fastened to the back plate rigidly by conventional means, such as 23, and to the base plate similarly by conventional means, such as 24. If a hinge is used, its movement in a clock-wise direction must be restricted in its maximum position to that shown in Fig. 1. By this means, a ventilated seat and back are hinged and held in the proper operative relationship.

What I claim and mean to secure by Letters-Patent is—

1. In ventilated furniture, a base plate having its edges bent at a predetermined angle with the base portion of said base plate, said edges correspondingly bent so as to form vertical strips, said base plate perforated in its bent edges with portions partially perforated and bent so as to form brackets, a seat, said seat positioned on the ledges of the bent edges of said base plate and between the vertical strips of said edges, a back plate having its edges bent at a predetermined angle, the edges of said back plate being bent so as to form horizontal strips, said edges perforated and partially perforated, so as to form ledges or brackets, a back, said back positioned on the ledges of the edges of said back plate and between the vertical strips of the edges of said back plate, said back plate and base plate secured in operative relationship.

2. In ventilated furniture, a base plate having its edges bent at a predetermined angle, the edges of said base plate being perforated, a seat, said seat secured to the edges of said base plate, a back plate having its edges bent at a predetermined angle, the edges of said back plate being perforated, a back, said back secured to the edges of said back plate, said back plate and base plate secured in operative relationship.

3. In furniture, a base plate with bent edges, a seat, said seat and base plate secured in constant spaced relationship by means of the bent edges of said base plate, a back plate with bent edges, a back, said back plate and back secured in constant spaced relationship by means of the bent edges of said back plate, said back plate and base plate secured in operative relationship.

4. In furniture, a base plate with bent perforated edges, a seat, said seat and base plate secured in constant spaced relationship by means of the perforated bent edges of said base plate, a back plate with perforated bent edges, a back, said back plate and back secured in constant spaced relationship by means of the perforated bent edges of said back plate, said back plate and base plate secured in operative relationship.

In testimony whereof I affix my signature.

FRANK ORMOND WHITE.