

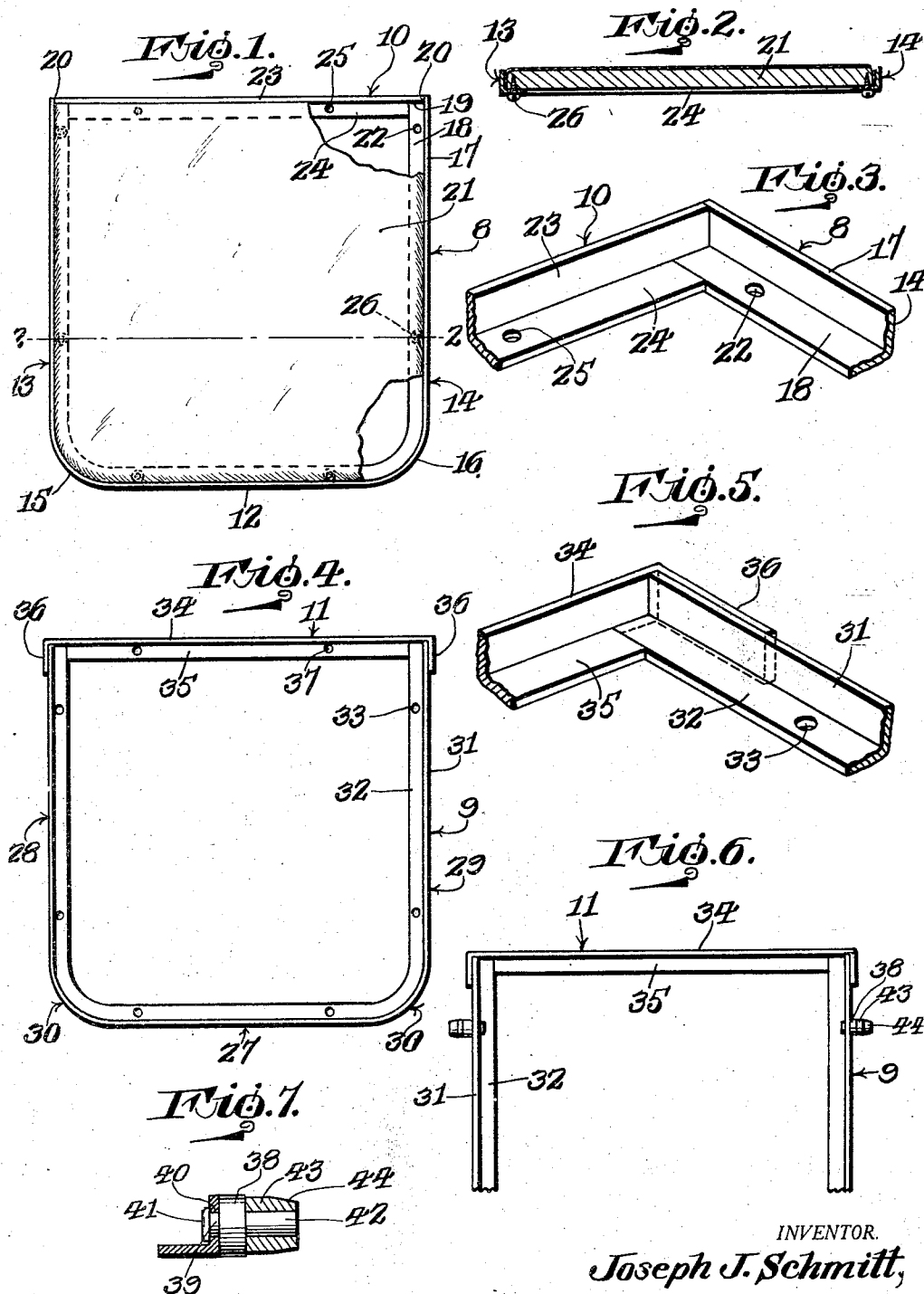
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SEAT FRAME

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SEAT FRAME

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This invention relates to a seat frame designed primarily for use in connection with foldable chairs, but it is to be understood that a seat frame in accordance with this invention may be employed in connection with any type of chair for which it is found applicable, and the invention has for its object to provide, in a manner as hereinafter set forth, a strong, rigid, durable, inexpensive seat frame for not only supporting a seat member but further permanently providing a protecting means for the edges of such member.

A further object of this invention is to provide, in a manner as hereinafter set forth, a seat frame including means for supporting a seat member and further so constructed to encompass the latter.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described, and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claim hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—

Figure 1 is a top plan view, partly broken away of a seat member showing the adaptation therewith of a seat frame in accordance with this invention.

Figure 2 is a section on line 2—2, Figure 1.

Figure 3 is a fragmentary view in perspective of the seat frame.

Figure 4 is a top plan view of a modified form of seat frame in accordance with this invention.

Figure 5 is a fragmentary view in perspective of the form shown in Figure 4.

Figure 6 is a fragmentary view in top plan of a seat frame in accordance with this invention provided with a lateral means for slidably coupling the frame to the side rails of a chair back with the rails of the channel type.

Figure 7 is a sectional detail illustrating

the means for slidably coupling the seat frame to the side rails of the chair back.

Each of the forms of seat frames as shown includes a yoke shaped element of angle-shaped cross section and a closure member for the open end of such element and with the major portion of said member being of angle-shaped cross section. The yoke-shaped element of the form shown in Figures 1, 2 and 3 is referred to generally at 8 and such element forming a part of the seat frame shown in Figures 4, 5, 6 and 7 is referred to generally at 9. The closure member forming a part of the seat frame as shown in Figures 1, 2 and 3 is generally indicated at 10 and the closure member of the form shown in Figures 4, 5, 6 and 7 is generally indicated at 11.

The element 8 consists of a front portion 12, a pair of side portions 13, 14 and a pair of rounded outer corners 15, 16. The element 8 at any point throughout its length, in cross section is formed with a vertically disposed part 17 and a horizontally disposed part 18, the latter terminating inwardly with respect to the ends of the part 17 to provide an abutment 19. The portions of the part 17 which project from the ends of the part 18 have the inner faces thereof form an abutment 20. The part 18 forms a support for a seat member 21 and it is provided with spaced openings 22 for the passage of hold-fast devices to secure the seat member 21 to the seat frame. The part 17 of the element 8 acts as a protecting means for the edge of the seat member 21 as the side and front edges of the latter abut against the inner face of the part 17. The part 18 of the element 8 extends inwardly from the bottom of the part 17 of such member. The closure member 10 includes a vertical part 23 and a horizontally disposed part 24 which extends inwardly from the bottom of the part 23 and is of less length than the length of the latter. The part 23 projects beyond the ends of the part 24. The length of part 24 corresponds to the distance between the edges of opposed portions of the part 18 of the element 8. The member 10 is positioned at the rear of the element 8 for the purpose of closing the lat-

ter, and when so positioned the part 24 of member 10 extends between opposed portions of the part 18 of member 8 and the end edges of part 24 abut against the edges of such opposed portions. The part 23 of member 10 abuts against the ends of the part 18 of member 8 and also abuts against the inner faces of the ends of element 8. The outer face of part 23 is flush with the end edges of part 17 of element 8. The member 10 is welded to element 8. The part 24 of element 8 provides a support for the rear of the seat member 21 and is formed with openings 25 for the passage of holdfast devices to engage in the seat member 21. The holdfast devices for connecting the seat member 21 to the seat frame are indicated at 26.

The element 9 consists of a front portion 27, a pair of side portions 28, 29 and a pair of rounded outer corners 30. The element 9 is formed of a vertical part 31 and a horizontally disposed part 32 which extends inwardly from the bottom of the part 31. The parts 31 and 32 are co-extensive with each other. The part 32 is provided with openings 33 for the passage of holdfast devices to secure the seat member to the seat frame. The part 32 provides a support for the seat member.

The member 11 is employed for closing the inner end of element 9 and is welded thereto. The member 11 includes a vertical part 34 and a horizontally disposed part 35 which extends inwardly from the bottom of the part 34 and is of less length than the length of the latter. The length of part 35 is the same as the distance between opposed parts 32 of element 9 and when member 11 is arranged in position, relative to element 9, part 35 extends between and abuts the opposed edges of the side portions 28, 29 of element 9 at the rear thereof. The part 34 abuts against the ends of element 9 and is provided with forwardly extending end portions 36 which abut against the outer face of the part 31 at the ends thereof. The end portions 36 are welded against the outer face of element 9. The portion 35 of member 11 provides a support for the rear of the seat member and is formed with openings 37 for the passage of holdfast devices to secure the rear of the seat member to the seat frame.

Figures 6 and 7 illustrate a laterally extending means carried by the yoke-shaped element for slidably connecting the seat frame to the channeled side rails of the chair back.

The laterally extending means is fixedly secured to the side portions of the yoke-shaped element in proximity to the rear ends of such element. The laterally extending means provides what may be termed slidable coupling elements and which when fixed to the yoke-shaped element extend in opposite directions with respect to each other. Each slidable coupling element consists of a cir-

cular body portion 38 having extending from its inner face a protuberance 39 of materially less diameter than the diameter of body portion 38. The protuberance 39 extends through an opening 40 provided in the vertical part of the yoke-shaped element and the inner end of the protuberance 39 is upset as at 41 to fixedly secure the body portion 38 to the yoke-shaped element and to prevent the rotation of such body portion.

Extending from the outer face of the body portion 38 is a stub-shaft 42 having revolvably mounted thereon a sleeve 43 having a tapered outer end 44. The sleeve 43 is adapted to extend in a channelled rail and is slidable within the latter. The tapered outer end of the sleeve 43 prevents any binding action between the walls of the channel and the sleeve so that the revolving movement of sleeve 43 will not be retarded when the coupling element is sliding in the channelled rail of the seat back.

The body portion 38 spaces the inner end of the sleeve 43 from the vertical part 40 of the yoke-shaped element.

What I claim is:

A seat frame comprising a yoke-shaped element having a vertical part and a horizontal part extending inwardly from the bottom of said vertical part, and a closure member having a vertical part and a horizontal part extending inwardly from the bottom of the latter, said member having its horizontal part of less length than its vertical part and with the latter projecting from the ends of the former, the horizontal part of said member positioned between and secured to opposed portions of the horizontal part of said element, the vertical part of said member positioned against and secured to the ends of said element, said horizontal parts providing a support for a seat member and said vertical parts encompassing and protecting the edges of said seat member, the vertical part of said closure member having forwardly extending end portions positioned against the outer face of the side portions of said element at the inner end of the latter.

In testimony whereof, I affix my signature hereto.

JOSEPH J. SCHMITT.