

Feb. 16, 1954

W. J. BARGEN

2,669,288

SCHOOL DESK SEAT SUPPORT

Filed Oct. 23, 1950

4 Sheets-Sheet 1

Fig. 1

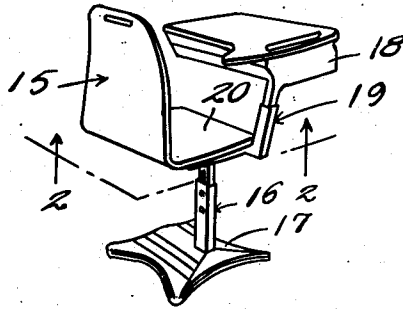


Fig. 15

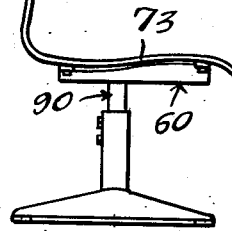


Fig. 9

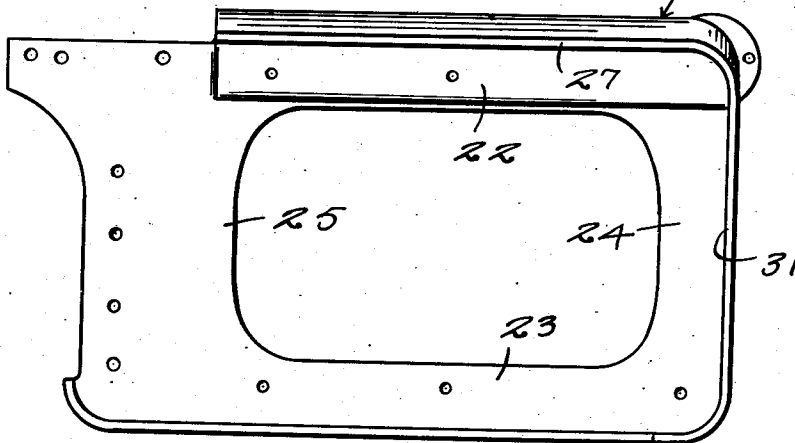
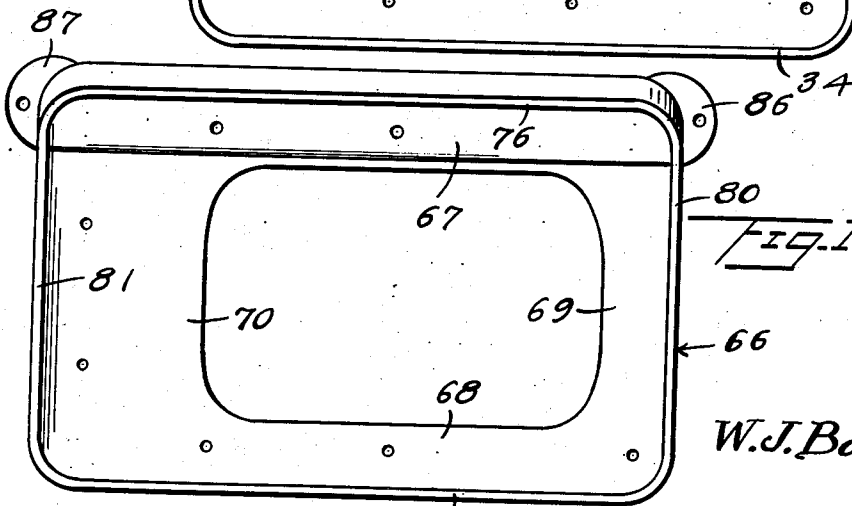


Fig. 17

INVENTOR  
*W. J. Bargaen*

BY *Kimmel & Crowell*  
ATTORNEYS

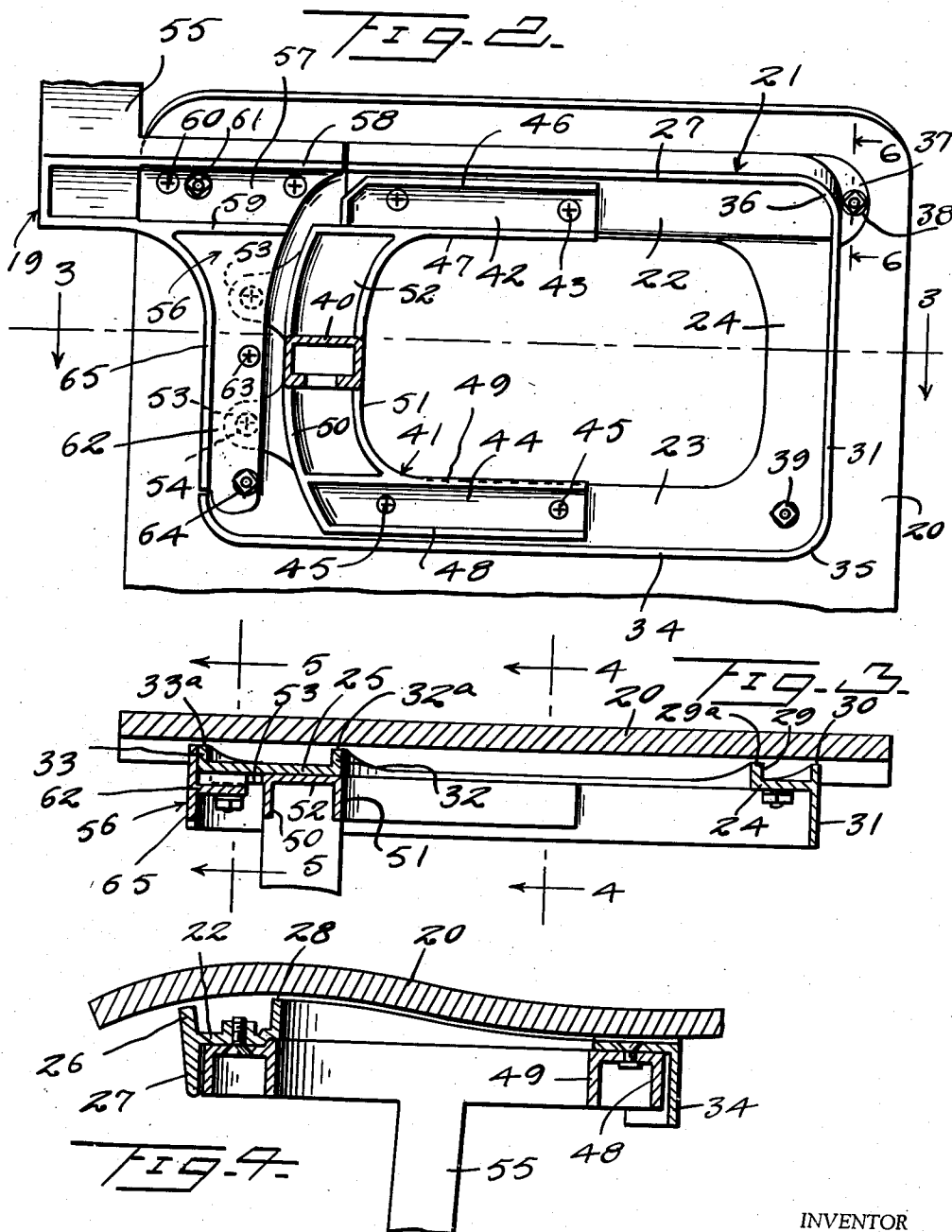
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INVENTOR

W.J. Bargaen

BY *Kimmel & Crowell*  
ATTORNEYS

Feb. 16, 1954

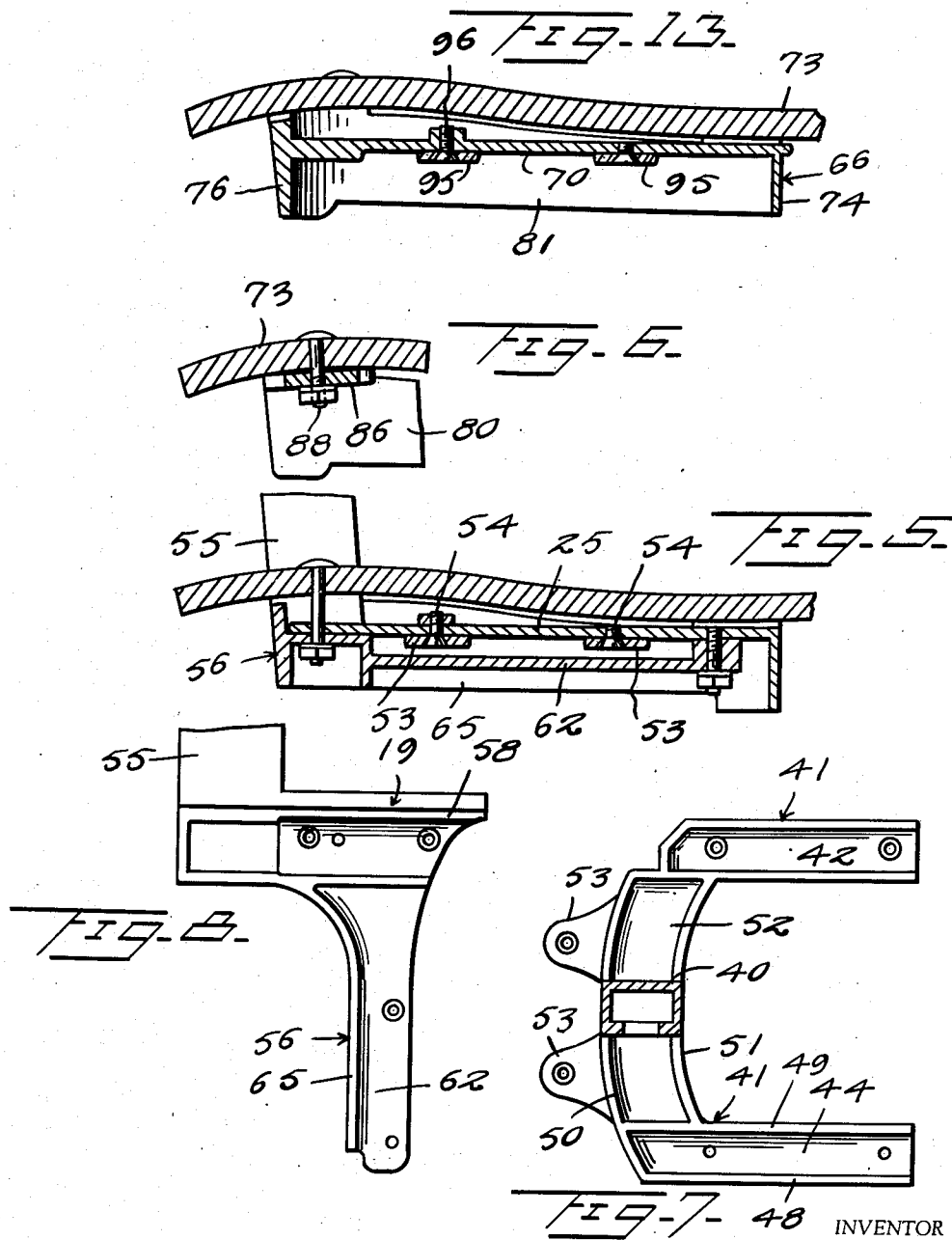
W. J. BARGEN

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SCHOOL DESK SEAT SUPPORT

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4 Sheets-Sheet 3



W.J. Bargaen

BY *Kimmel & Crowell*  
ATTORNEYS

**Feb. 16, 1954**

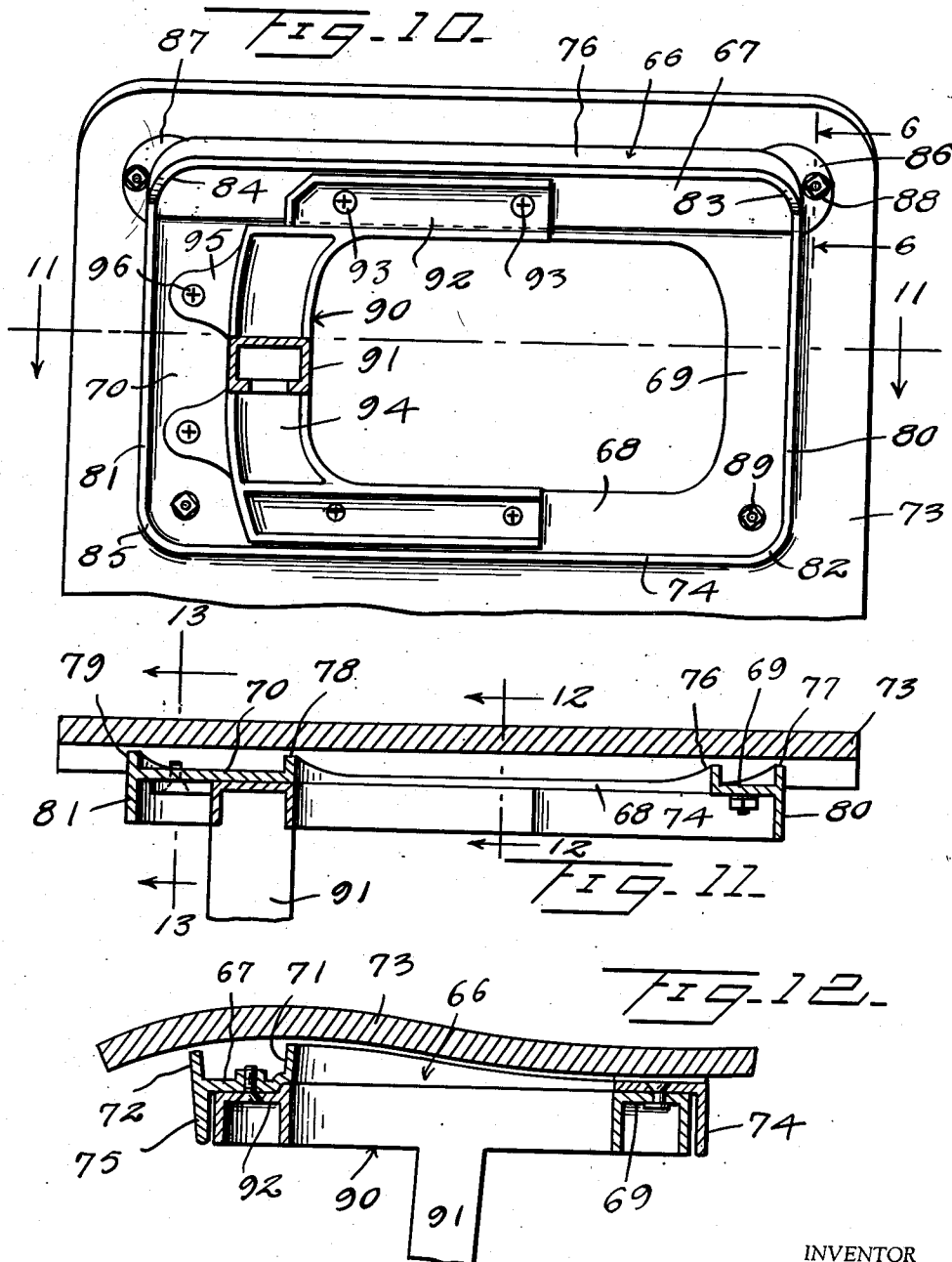
W. J. BARGEN

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SCHOOL DESK SEAT SUPPORT

Filed Oct. 23, 1950

4 Sheets-Sheet 4



INVENTOR

*W.J. Barger*

BY: *Kimmel & Crowell*  
ATTORNEYS

## UNITED STATES PATENT OFFICE

2,669,288

## SCHOOL DESK SEAT SUPPORT

William James Barga, Waukegan, Ill.

Application October 23, 1950, Serial No. 191,633

1 Claim. (Cl. 155-134)

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This invention relates to an improved school desk pedestal and seat support.

An object of this invention is to provide a pedestal and seat supporting structure which will evenly distribute the stresses, so that all portions of the seat supporting structure will take up the stresses.

Another object of this invention is to provide a pedestal and seat supporting structure which includes a U-shaped member carried by the standard, and a rectangular frame fixed to the upper side of the U-shaped member and adapted to be fixed to the underside of a seat.

A further object of this invention is to provide an improved connecting member between the pedestal and the seat so that the latter will be resiliently supported, without, however, losing proper resiliency to insure good posture.

A further object of this invention is to provide a pedestal and seat support which is of simple construction embodying a lesser number of parts than similar devices now available to thereby reduce the production costs and also reduce the retail costs, and at the same time to provide a sturdy well balanced seat supporting structure.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claim.

In the drawings:

Figure 1 is a perspective view of a school desk constructed according to an embodiment of this invention.

Figure 2 is a horizontal section taken substantially on the line 2-2 of Figure 1.

Figure 3 is a sectional view taken on the line 3-3 of Figure 2.

Figure 4 is a fragmentary sectional view taken on the line 4-4 of Figure 3.

Figure 5 is a fragmentary sectional view taken on the line 5-5 of Figure 3.

Figure 6 is a fragmentary sectional view taken on the line 6-6 of Figure 2.

Figure 7 is a bottom plan partly in section of the U-shaped pedestal top.

Figure 8 is a bottom plan partly broken away of the desk supporting member.

Figure 9 is a bottom plan of the seat supporting frame.

Figure 10 is a bottom plan partly in horizontal section of a modified form of this invention.

Figure 11 is a sectional view taken on the line 11-11 of Figure 10.

Figure 12 is a fragmentary sectional view taken on the line 12-12 of Figure 11.

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Figure 13 is a fragmentary sectional view taken on the line 13-13 of Figure 11.

Figure 14 is a bottom plan view of the frame shown in Figure 10 removed from the seat.

Figure 15 is a detail side elevation of a chair incorporating the support shown in Figure 14.

Referring to the drawings, and, first, to Figures 1 to 9, inclusive, the numeral 15 designates generally a combined seat and back mounted on a pedestal 16 carried by a base 17. A desk member 18 is carried by an upwardly and forwardly inclined supporting arm 19 which is secured beneath the seat 20. The combined seat and back member 15 has secured to the seat member 20 thereof a frame generally designated as 21.

The frame 21 is substantially rectangular in plan and is formed of parallel side members 22 and 23 and end members 24 and 25. The side member 22 is the front side of the supporting frame 21 and is provided with an upwardly projecting flange 26 and a downwardly projecting flange 27. An inner flange 28 also projects upwardly from the front member 22, and the two flanges 26 and 28 are adapted to engage the lower side of the seat member 20.

The end member 24 is provided with a tapering inner flange 29 and a similar tapering flange 30 projecting upwardly therefrom for engagement with the lower side of the seat member 20. An outer depending flange 31 extends substantially in alignment with the outer flange 30. The end member 25 is provided with an inner upwardly projecting flange 32 and with an upwardly projecting flange 33 at its outer edge.

The flanges 29, 30, 32, and 33 are shaped to conform to the curvature of the seat member 30 and are cut out between the ends thereof as indicated at 29a, 30a, 32a, and 33a respectively, so that the flanges only contact with the seat at the corners of the frame 21. These cutouts provide spaces between the seat and frame so that the seat and back member which is formed of resilient material may have relative movement with respect to the support 21. The side member 23 which is a rear side member is provided with a downwardly projecting flange 34 which merges with flange 31 as indicated at 35.

Flange 27 also merges at one end with flange 31 as indicated at 36. An outwardly projecting ear 37 projects from the junction between the side 22 and the end 24 and a fastening member 38 is extended through the ear 37 and the seat member 20.

An additional fastening member 39 extends through the supporting frame 21 at substantially the junction between the rear side member 23

and the end member 24. The pedestal 16 includes a tubular stem 40 having a U-shaped member 41 on the upper end thereof and formed integral therewith. The U-shaped member 41 has one arm 42 thereof secured by fastening means 43 to the lower face of front member 22 and the other arm 44 of the U-shaped member 41 is secured by fastening means 45 to the lower face of the rear side member 23.

The U-shaped member 41 includes depending parallel flanges 46 and 47 carried by the arm 42 and also depending flanges 48 and 49 carried by the arm 44. Arcuate flanges 50 and 51 are carried by the bight 52 of the U-shaped member 41. The U-shaped member 41 also includes a pair of laterally projecting ears 53 which project from the outer end of the bight 52 and are adapted to be secured as by fastening means 54 to the end member 25.

The desk supporting member 19 includes an upwardly and forwardly projecting tubular arm 55 which is carried by a right angularly disposed L-shaped member 56. One side 57 of the L-shaped member 56 is disposed in substantial alignment with the front side member 22 and is provided with outer and inner flanges 58 and 59. The side 57 of L-shaped member 56 is secured by fastening means 60 to the end member 25. A fastening member 51 also projects through the side 57 and the end member 25 and through the seat 20. The opposite or other side 62 of L-shaped member 56 underlies the ears 53 and is secured by fastening means 63 to the end member 25.

A rear fastening member 64 extends through the rear end of side 62 and through the end member 25 and the seat 20. A depending reinforcing flange 65 is carried by the side 62 of L-shaped member 56.

Referring now to Figures 10 to 13, inclusive, there is disclosed a modified form of seat supporting frame generally designated as 66. The frame 66 includes a front side member 67, a rear side member 68, and opposite end members 69 and 70. The front member 67 includes inner and outer upwardly projecting flanges 71 and 72 which are engageable with the lower side of the seat member 73. The rear side member 68 bears at its upper side against the lower side of the seat member 73 and is formed at its rear edge with a depending flange 74. The front side member 67 also includes a depending flange 75.

The end member 69 includes an upwardly projecting inner flange 76 and an upwardly projecting outer flange 77. The side member 70 includes an inner upwardly projecting flange 78 and an outer upwardly projecting flange 79. The end member 69 also includes a depending reinforcing flange 80 and end member 70 also includes a

depending reinforcing flange 81, and the depending flanges 74 and 80 merge together as indicated at 82. Depending flanges 76 and 80 also merge together as indicated at 83, and flanges 73 and 81 merge together as indicated at 84. Flanges 74 and 81 merge together as indicated at 85.

A pair of outwardly projecting ears 86 and 87 project from the forward corners of the frame 66, and fastening members 88 extend through the ears 86 and 87 and the seat member 73. Rear fastening members 89 also extend through the opposite ends of the rear member 68 and the seat member 73.

A U-shaped pedestal member 90 carried by tubular stem 91 has the parallel arms 92 thereof secured by fastening means 93 to the front and rear members 67 and 68 and the bight 94 of U-member 90 has laterally projecting ears 95 secured by fastening means 96 to the end member 70.

With a seat supporting structure as hereinbefore described a unitary seat and back member may be resiliently supported in a manner where- by stresses applied to the back will not be communicated to the supporting structure, and the latter will form a rigid foundation embodying a minimum of parts, so that the foundation may be easily assembled.

What is claimed is:

In a seat structure having a base and a pedestal at one side of the base with a horizontally disposed U-shaped member on the upper end of the pedestal and an integral seat and back having a degree of flexibility, a rectangular seat support interposed between said U-shaped member and the seat, said support comprising front and rear members, opposite end members integral with said front and rear members, upstanding flanges carried by said front and opposite end members, said flanges having cutouts in the upper edges thereof between the ends of each end member whereby said seat is supported only at the four corners of said support and may flex between said corners, outwardly projecting ears disposed at the junction between said front and opposite end members and having the upper surfaces thereof coplanar with the upper edges of said flanges, and means engaging through said ears and the remaining corners of said support securing said support to said seat.

WILLIAM JAMES BARGEN.

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