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(54) **LOCKING BRACKET AND CUPHOLDER FOR SEAT FRAME**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

898,091 A	9/1908	Carney	312/248
1,149,541 A	8/1915	Rees et al.	297/188.05
1,252,207 A	1/1918	Walker	
1,602,261 A	10/1926	Hill	248/298.1
1,680,469 A	8/1928	Morgan	248/297.1
1,794,700 A	3/1931	McCaskey	
1,989,974 A	2/1935	Elias	248/205.1
2,132,331 A	10/1938	Wanamaker	182/129
2,202,365 A	5/1940	Feman	248/311.2

2,217,553 A	10/1940	Huettenrauch	220/620
2,319,109 A	5/1943	Bullock	482/148
2,364,647 A	12/1944	O'Connor	297/452.33
2,471,030 A	5/1949	Foulke	211/75
2,517,829 A	8/1950	Beckowich	248/311.2
2,532,162 A	11/1950	Goss	
2,579,889 A	12/1951	Weinberg	40/538
2,615,664 A	10/1952	Reeves	248/177
2,706,516 A	4/1955	Nordmark	155/188
2,807,315 A	9/1957	Manne	297/188.06
3,003,734 A	10/1961	Davis et al.	248/224
3,041,107 A	6/1962	Schaefer	297/248
3,172,713 A	3/1965	Rupert	312/235.7
3,215,467 A	11/1965	McFarland	297/188.15
3,526,314 A	9/1970	Trammel	224/275
3,565,384 A	2/1971	Lockwood	248/312
3,734,439 A	5/1973	Wintz	248/224
D227,858 S	7/1973	Goldman et al.	D8/233

(Continued)

OTHER PUBLICATIONS

Defendant's (American Seating Co.) Answer—Civil Action No. 0:05-cv-00800-RHK-AJB, in the U.S. District Court for the District of Minnesota—Document No. 3 filed Jul. 22, 2005.

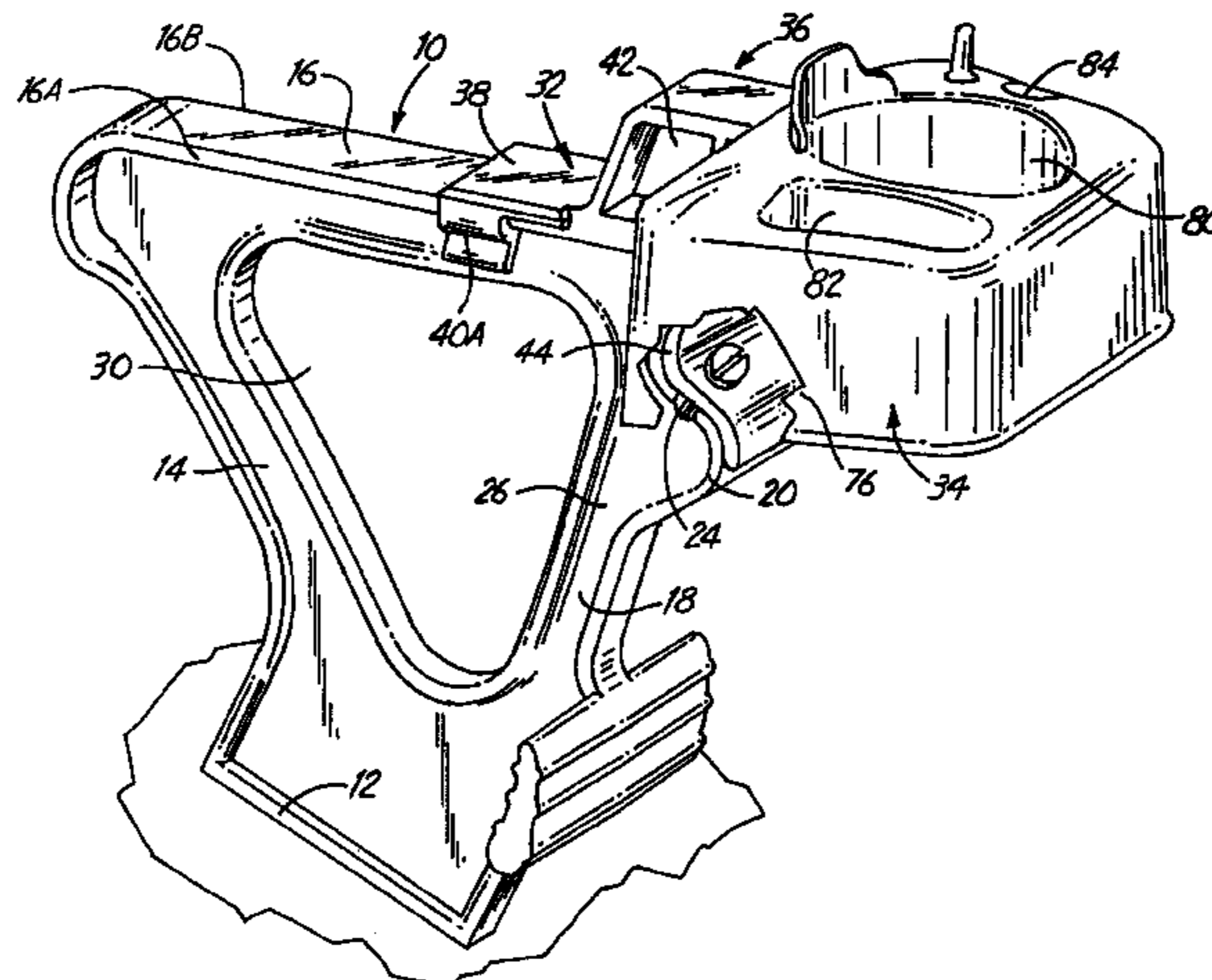
(Continued)

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(57) **ABSTRACT**

A bracket is used for mounting onto the standard of a stadium or theater seat. The bracket can be bolted in place at the same time as seat backs are bolted onto the seat standard. The bracket has latches that permit a drink cupholder to be installed by sliding the cupholder along mating guides in one direction. The latches engage complementary latch portions on the drink cupholder to prevent removal of the drink cupholder. The drink cupholder has a wall that mates to the bracket, and includes skirt walls that cover the bolts used for attaching the bracket and the seat backs to the seat standard.

20 Claims, 6 Drawing Sheets



U.S. PATENT DOCUMENTS

3,881,677	A	5/1975	Ihlenfeld	.....	248/311.2
4,063,701	A	12/1977	Wray	.....	248/292.14
4,088,848	A	5/1978	Weed	.....	179/146 R
4,161,265	A	7/1979	Hauser et al.	.....	222/181.2
4,262,962	A	4/1981	Yust	.....	297/194
4,461,445	A	7/1984	Williamson et al.	.....	248/551
4,697,780	A	10/1987	Wenkman et al.	.....	248/558
4,721,276	A	1/1988	Moss	.....	248/311.2
4,789,128	A	12/1988	Yang	.....	248/676
4,795,211	A	1/1989	Stern et al.	.....	297/194
4,844,400	A	7/1989	Jasmagy, Jr.	.....	248/311.2
4,863,134	A	9/1989	Young et al.	.....	248/311.2
4,865,237	A	9/1989	Allen	.....	224/42.45 R
D307,852	S	5/1990	Clark	.....	D7/620
5,035,389	A	7/1991	Wang	.....	248/224.51
5,054,170	A	10/1991	Otrusina	.....	24/597
5,086,958	A	2/1992	Nagy	.....	224/544
D328,223	S	7/1992	Clark	.....	D7/622
5,219,140	A	6/1993	Spykerman	.....	248/311.2
5,232,262	A	8/1993	Tseng	.....	297/188.17
5,234,251	A	8/1993	Ayotte et al.	.....	297/194
5,238,212	A	8/1993	Dechellis	.....	248/311.2
D342,871	S	1/1994	Stern et al.	.....	D7/620
D345,906	S	4/1994	Schmidt et al.	.....	D8/373
5,302,000	A	4/1994	Ayotte	.....	297/194
5,320,319	A	6/1994	Winger et al.	.....	248/312.1
5,320,406	A	6/1994	North	.....	297/188.14
D350,259	S	9/1994	Ayotte et al.	.....	D7/620
5,356,038	A	10/1994	Banks	.....	222/105
5,356,107	A	10/1994	Sinohuiz	.....	248/311.2
D353,289	S	12/1994	Ayotte et al.	.....	D6/510
5,395,085	A	3/1995	Mann	.....	248/311.2
D357,613	S	4/1995	Schultz	.....	D7/620
5,421,638	A	6/1995	Ayotte et al.	.....	297/188.04
5,435,511	A	7/1995	Hsu	.....	248/206.3
D365,250	S	12/1995	Bergin et al.	.....	D7/620
5,474,272	A	12/1995	Thompson	.....	248/311.2
D367,997	S	3/1996	Ayotte et al.	.....	D7/620
D368,628	S	4/1996	Bergin	.....	D7/620
5,533,782	A	7/1996	Goldman	.....	297/188.18
D377,439	S	1/1997	Ayotte et al.	.....	D7/620
5,628,103	A	5/1997	Ayotte et al.	.....	29/525.01
D380,125	S	6/1997	Ayotte et al.	.....	D7/620
D380,652	S	7/1997	Ayotte et al.	.....	D7/620
D383,362	S	9/1997	Ayotte et al.	.....	D7/620
5,709,057	A	1/1998	Johnson, Jr.	.....	52/301
5,709,429	A	1/1998	Bergin	.....	297/188.04
D398,127	S	9/1998	Bergin et al.	.....	D34/27
5,813,644	A	9/1998	Bergin	.....	248/311.2
5,813,646	A	9/1998	Bartholomew	.....	248/311.2
D400,678	S	11/1998	Clark et al.	.....	D34/27
5,850,996	A	12/1998	Liang	.....	248/221.11
5,873,555	A	2/1999	Crace	.....	248/312.1
5,938,091	A	8/1999	Bergin et al.	.....	224/411
5,947,322	A	9/1999	Ho	.....	220/477
D423,836	S	5/2000	Bergin	.....	D6/501
D425,012	S	5/2000	Bergin	.....	D12/419
6,062,518	A	5/2000	Etue	.....	248/231.21

6,109,580	A	8/2000	Stern et al.	.....	248/311.2
6,186,382	B1	2/2001	Bergin	.....	224/411
6,283,042	B1	9/2001	Wargo et al.	.....	108/26
6,283,551	B1	9/2001	Bergin et al.	.....	297/411.35
6,315,182	B1	11/2001	Chen	.....	224/420
6,354,551	B1	3/2002	Oxley	.....	248/311.2
D456,691	S	5/2002	Bergin	.....	D8/354
6,457,772	B1	10/2002	Forston	.....	297/188.14
6,478,371	B1	11/2002	Clarke	.....	297/188.11
6,520,576	B1	2/2003	Burns et al.	.....	297/188.14
6,641,101	B2	11/2003	Bergin	.....	248/311.2

OTHER PUBLICATIONS

Amended Complaint for Patent Infringement (Jury Trial Demanded)—Civil Action No. 0:05-cv-00800-RHK-AJB, in the U.S. District Court for the District of Minnesota—Document No. 41 filed Jan. 16, 2006.

Defendant's (American Seating Co.) Answer to Amended Complaint and Counterclaim—Civil Action No. 0:05-cv-00800-RHK-AJB, in the U.S. District Court for the District of Minnesota—Document No. 43 filed Jan. 17, 2006.

Plaintiff's (Caddy Products, Inc.) Reply to Counterclaim—Civil Action No. 0:05-cv-00800-RHK-AJB, in the U.S. District Court for the District of Minnesota—Document No. 45 filed Feb. 6, 2006.

Defendant's Prior Art Statement dated Apr. 3, 2006 in the matter of *Caddy Products, Inc. v. American Seating Company* pending in the United States District Court for the District of Minnesota relating to U.S. Patent No. 6,641,101.

Defendant's Prior Art Statement dated Oct. 2, 2006 in the matter of *Caddy Products, Inc. v. American Seating Company* pending in the United States District Court for the District of Minnesota relating to U.S. Patent No. 6,641,101; 7 pages.

"Reply Memorandum of Law Supporting Plaintiff's Motion for Summary Judgment", Case No. 05-CV-800 (JRT/FLN) filed Sep. 15, 2008; p. 1 of 16.

"Reply Memorandum of Law in Support of American Seating's Motion for Summary Judgment", Civil No. 0:05-cv-800-JRT/FLN filed Sep. 15, 2008; p. 1 of 19.

"Plaintiff's Memorandum of Law in Support of Summary Judgment", Case No. 05-CV-800 (JRT/FLN) filed Aug. 4, 2008; p. 1 of 20.

"Defendant's Memorandum of Law in Opposition to Plaintiff's Motion for Summary Judgment", Civil No. 0:05-cv-800-JRT/FLN) filed Sep. 2, 2008; p. 1 of 18.

"Plaintiff's Memorandum of Law Opposing Defendant's Motion for Summary Judgment", Case No. 05-CV-800 (JRT/FLN) filed Aug. 29, 2008; p. 1 of 26.

"American Seating's Memorandum of Law In Support of its Motion for Summary Judgment of Non-Infringement or in the Alternative Invalidity of United States Patents 5,241,638 and RE. 39,392", Case No. 0:05-cv-800-JRT/FLN filed Aug. 4, 2008; p. 1 of 34.

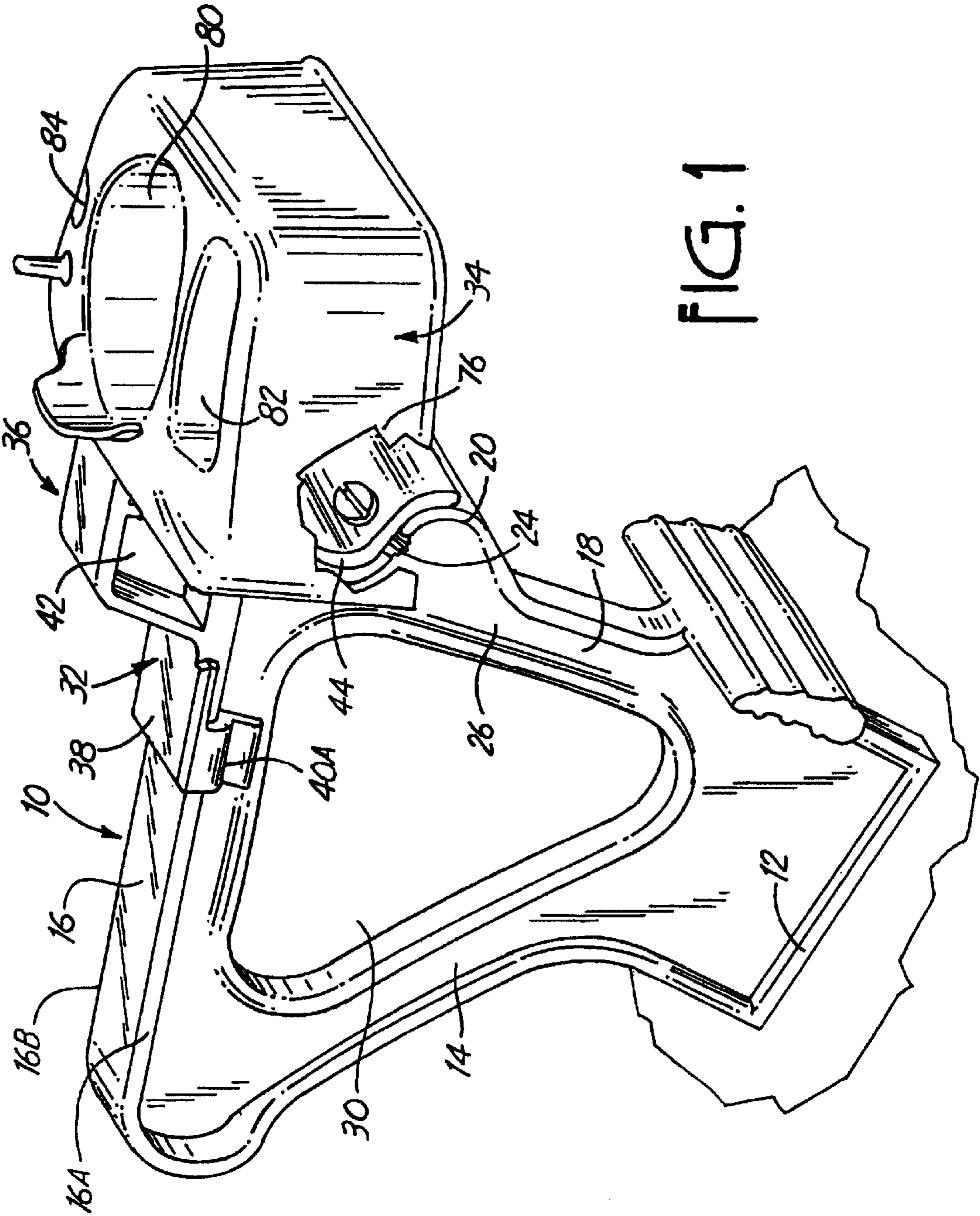


FIG. 1

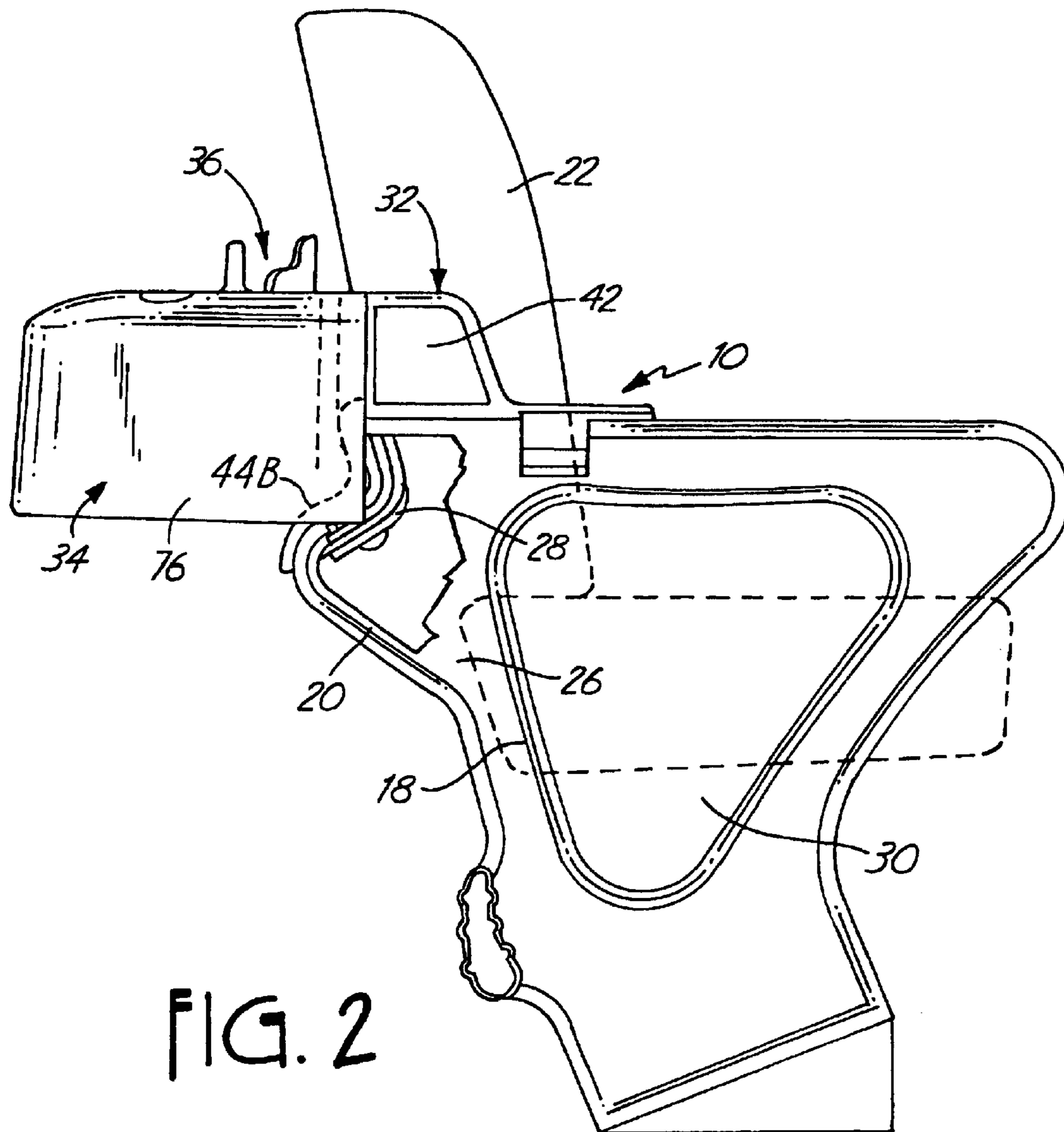
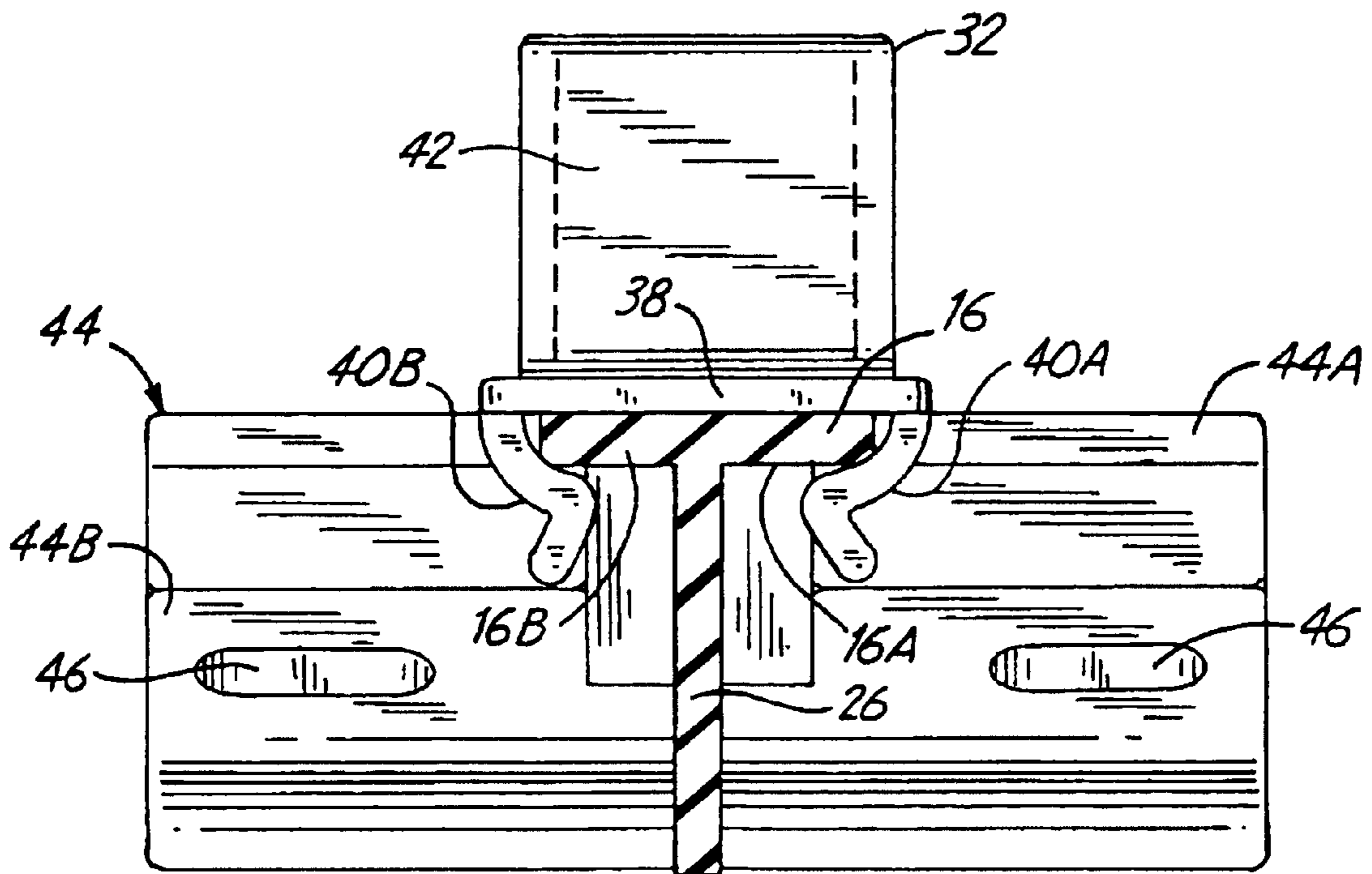
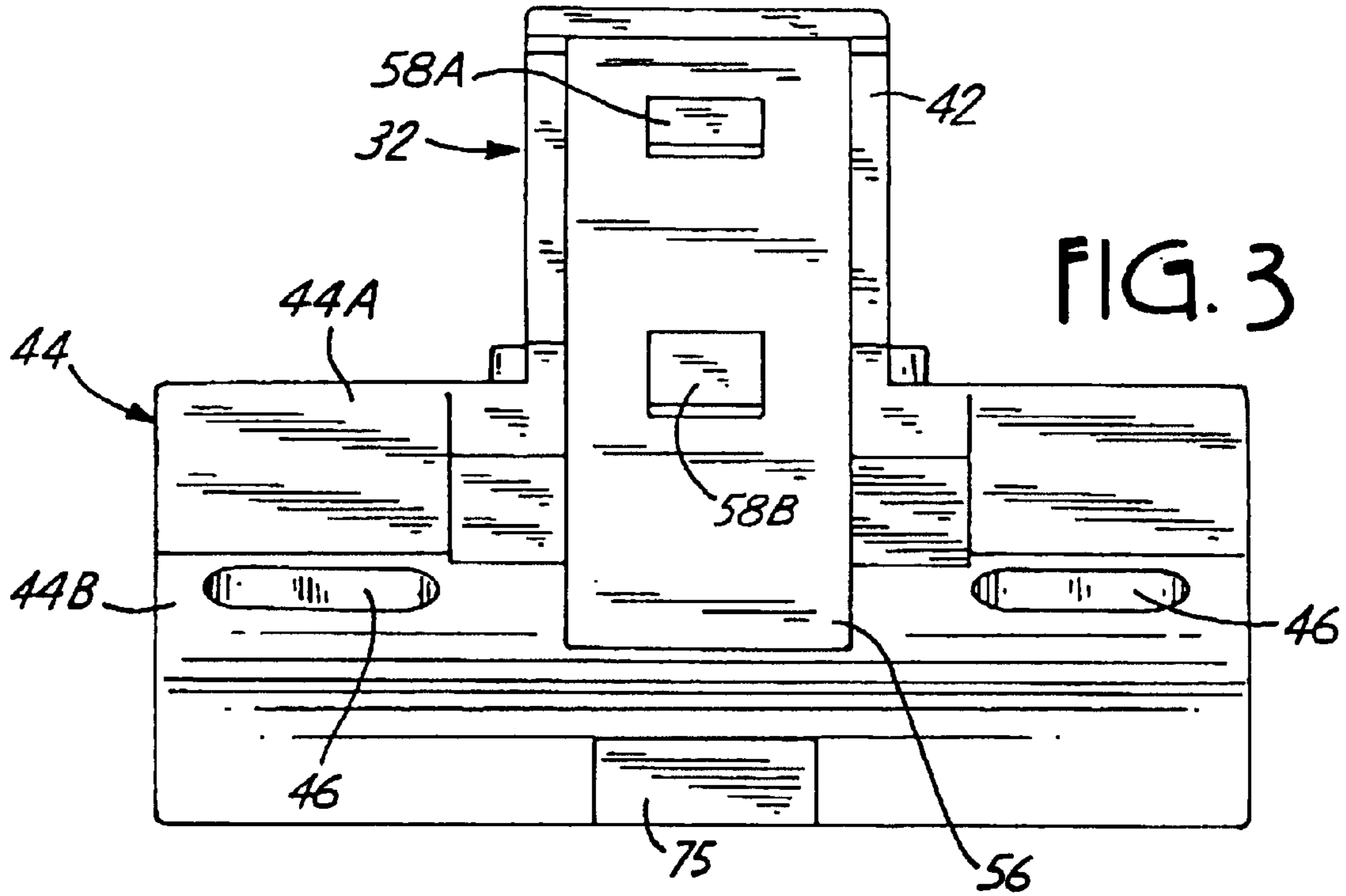


FIG. 2



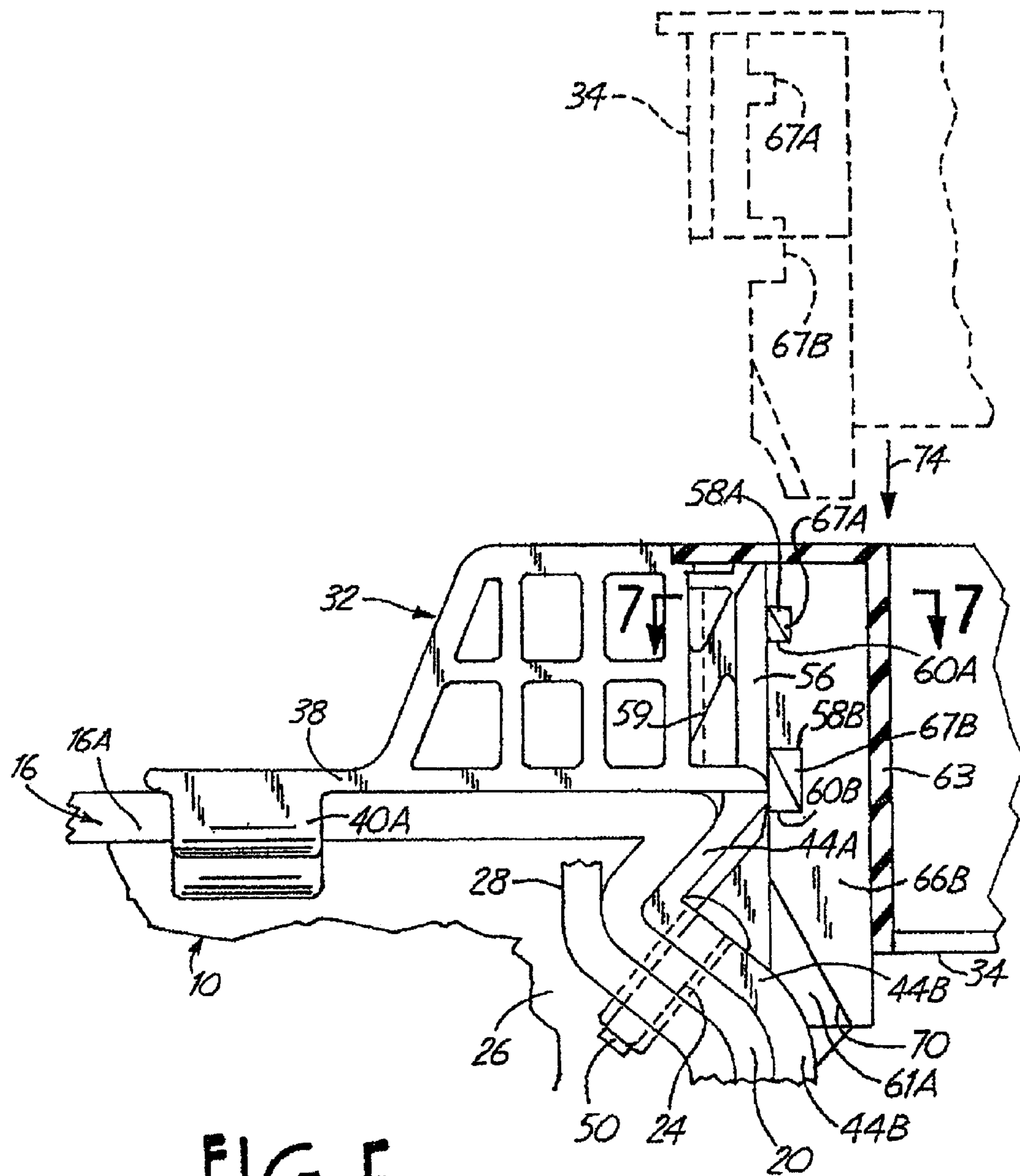


FIG. 5

(AMENDED)

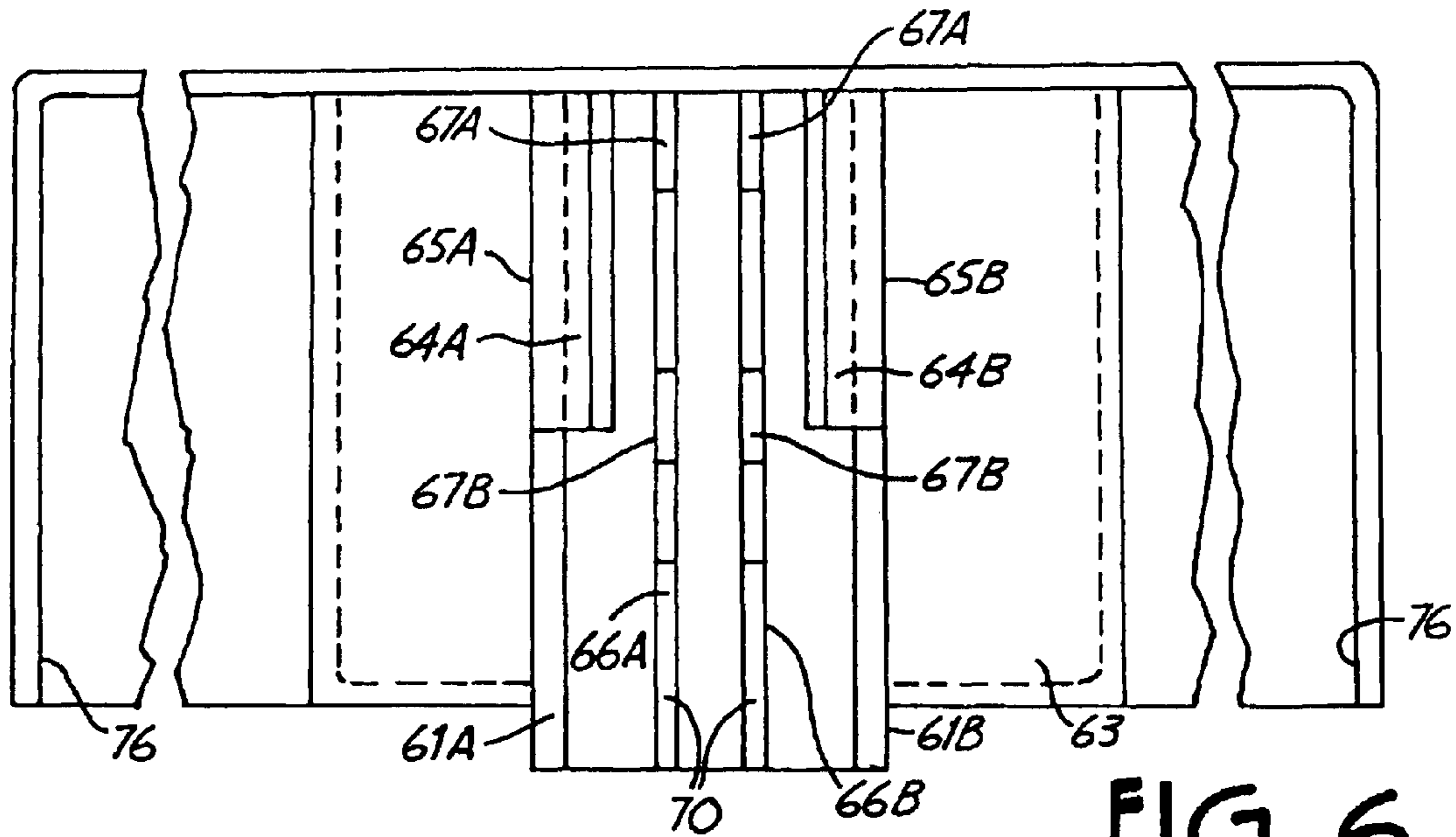


FIG. 6

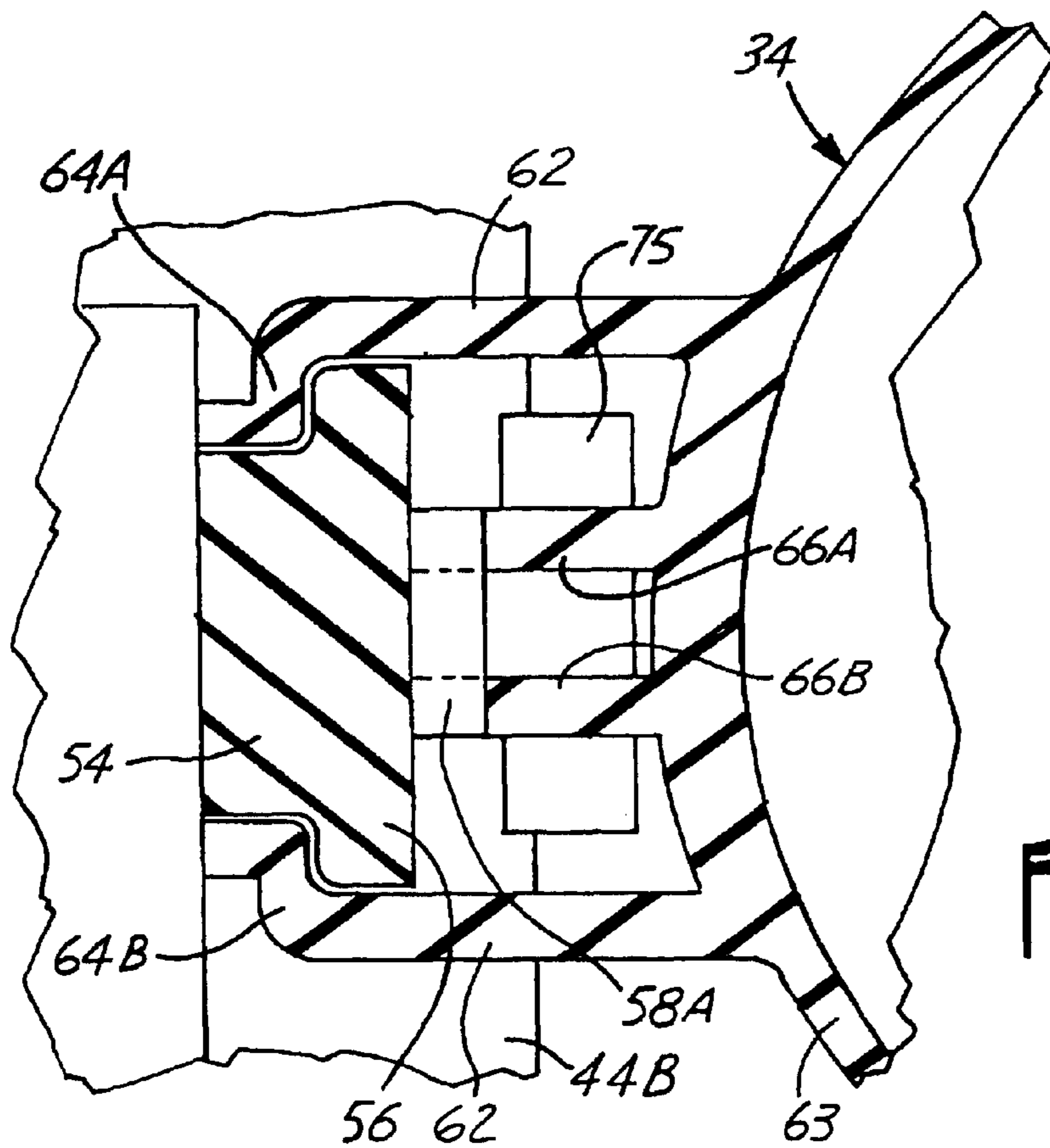


FIG. 7

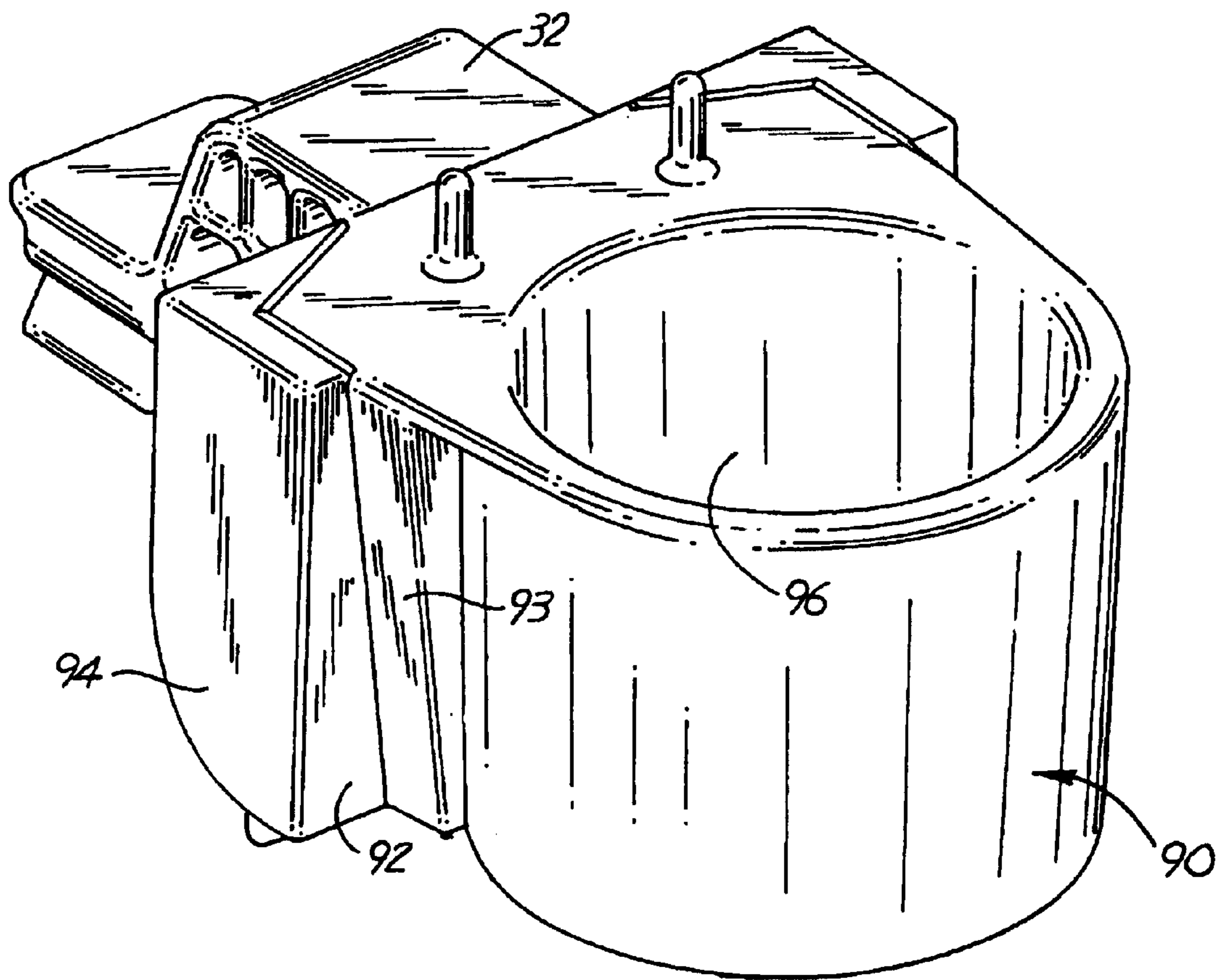


FIG. 8

LOCKING BRACKET AND CUPHOLDER FOR SEAT FRAME

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

More than one reissue application has been filed for original U.S. Pat. No. 6,641,101 for which reissue is sought. This application is a continuation of Reissue application Ser. No. 10/985,831 filed Nov. 10, 2004, now U.S. Reissue Pat. No. RE 39,392.

BACKGROUND OF THE INVENTION

The present invention relates to a drink cupholder on the seat standard or frame of stadium seats, which includes a separate mounting bracket that can be preinstalled on the standard, before the seat backs are put into place and using bolt holes that are also used for mounting the seat backs in place. The mounting bracket can be installed, and later the seat backs can be installed. A separate drink cupholder is fitted into the place on the mounting bracket as a final step and locks in position covering the bolts used for mounting the mounting bracket and seat back to prevent tampering.

In the prior art, drink container holders or drink cupholders have been advanced, and have become very popular in stadium seating for theaters, sports arenas and the like. The cupholders generally are mounted at the rear of the seat backs, so that they are accessible and useable for persons seated in the row behind the row of seats on which the cupholders are mounted. Also, separable mounting brackets and drink cupholders have been shown in the prior art. For example, U.S. Pat. No. 5,813,644, illustrates such a cupholder. Improvements in the ease of mounting, and the procedures for enabling one to install a mounting bracket at the time the seat standards are installed into the arena, and then later adding the drink cupholders, while insuring that the drink cupholders are secured in place is important. Tampering with drink cupholders can be a problem, and the cupholder of the present invention covers the bolts that attach the mounting bracket to the seat standard when the drink cupholder is snapped into place. This construction will discourage, and essentially eliminate, removal of the brackets and the drink cupholder.

The bracket and the drink cupholder can be molded out of suitable plastic materials, and provide an attractive, easily installed, and relatively tamper proof assembly.

SUMMARY OF THE INVENTION

The present invention relates to a mounting bracket and a drink cupholder that are separately made, and which are installed on the standards or frames for mounting the bracket stadium seats. The mounting bracket is adapted to snap into place on the arm support between a pair of seats, the mounting bracket extends to the rear of such standard. Molded or formed seat standards can have various curved shapes, and the present mounting bracket can easily be adapted to such curves for fitting into place, particularly along flanges at the rear of the seat standard. The seat backs are installed on provided supports at the rear of the standard with suitable bolts. The same bolts are used for securing the mounting bracket in place, so the mounting brackets can be mounted and secured at the time the seat backs are installed.

The drink cupholder that attaches to the mounting bracket can be installed at a later time by sliding it onto a provided guide wall so it snaps and latches in place. The drink cup-

holder is then non-removably attached without utilizing special tools. Attaching the mounting bracket to the standard at the time of installing the seat backs, makes the installation process easier.

Since the drink cupholder can be installed at a later time, it is made to shield the mounting bolts that are used for attaching the mounting bracket on the seat standard. Once the drink cup or drink cupholder has been snapped into place, the mounting bolts are not accessible from the rear but the drink cupholder is accessible to a person sitting in a seat row behind the row of seats on which the drink cupholder is installed.

Different versions of drink cupholders can be installed on the same mounting bracket, depending on the use that is desired. Each drink cupholder has a guide or slide that has recesses that mate with the lugs on the mounting bracket.

The mounting bracket is easily molded, and the drink cupholders also are molded so that they can be made rugged, in suitable colors, and with pleasing shapes.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of the typical seat standard having a drink cupholder mounting bracket and drink cupholder installed thereon, with the seat backs removed;

FIG. 2 is a side elevational view of the standard of FIG. 1 fragmentarily showing a seat back in dotted lines in position for illustrative purposes;

FIG. 3 is a rear end view of a mounting bracket;

FIG. 4 is a view of the end of the mounting bracket opposite from FIG. 3, that would be installed on the seat standard;

FIG. 5 is a side elevational view showing the drink cupholder latched into place on a mounting bracket;

FIG. 6 is a back side view of the drink cupholder showing the receptacles that latch onto lugs on the mounting bracket;

FIG. 7 is a fragmentarily enlarged sectional view of the mating parts for mounting the drink cupholder on the mounting bracket taken on line 7—7 in FIG. 5; and

FIG. 8 is a perspective front view of a modified view of the drink cupholder shown installed on a bracket.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

As shown in FIGS. 1 and 2, in particular, a stadium seat standard indicated generally at 10 is for mounting seats in a conventional manner in a stadium seating arrangement. The seats are not shown in detail, in that they can be of any suitable design. The standard 10 includes a base 12 that mounts onto a suitable support, such as a poured concrete floor of a stadium, and has frame uprights 14 at the front edge that curve upwardly to a top flange 16. The rear side of the standard has a rear upright 18, with a mounting flange 20 that is used for mounting a seat back 22, as shown schematically in FIG. 2. The seat back 22 has suitable brackets 28 that fit against the inner surface of the flange 20 in alignment with slots 24 on the mounting flange.

The flange 20 extends on opposite sides of a center panel 26, and there is a slot 24 on each of the extending side portions of the flange 20. The flange 20 and panel 26 can be curved at the rear side, as desired, and the brackets 28 used for mounting the seat backs fit this curvature.

The top flange 16, extends on opposite sides of the center panel 26, as shown, and various openings 30, can be provided. The side portions 16A and 16B of the top flange are used for supporting a mounting bracket 32 for a drink cupholder 34 in a drink cupholder assembly 36.

The mounting bracket 32 is shown in greater detail in FIGS. 3 and 4, and includes a horizontal top wall 38 that rests above the flange 16, and has snap on resilient latch fingers 40A and 40B on the two sides of the top wall 38, respectively, that fit over edges of the side flanges 16A and 16B of the top flange 16 on the seat standard.

The top wall 38 joins a support head 42 that is positioned at the rear side of the mounting bracket 32. The support head 42 in turn is joined to a support wall 44 that is molded in two wall sections, 44A and 44B, to conform to the upper portions of the flange 20 at the rear side of the standard 10. The wall 44 is provided with bolt openings or slots 46 in the lower support wall section 44B that is resting on a portion of the flange 20 carrying the slots 24 for the bolts 50 which are used for mounting the seat backs 22, and which also are used for attaching the mounting bracket 32 in position.

The support head 42 supports a generally planar upright track or wall 56 that is joined to the support head 42 with a block or web 54. The wall 56 has two latch lugs 58A and 58B formed thereon. The lugs 58A and 58B taper outwardly in downward direction and form downwardly facing shoulder surfaces 60A and 60B, respectively. The planar wall 56 mates with latch slide guides 62 at the back of the drink cupholder 34.

The back of the drink cupholder 34 has a pair of spaced side walls 61A and 61B that have upper portions 65A and 65B extending laterally from the wall 63 forming the cup receiving cylinder a greater distance than the lower portions of the wall (see FIGS. 5, 6 and 7 in particular). The upper portions 65A and 65B have inwardly turned flanges 64A and 64B that fit over the side edges of the upright track or wall 56. When the cupholder 34 is to be installed on the mounting bracket 32, the cupholder 34 is raised above the wall 56 as shown in dotted lines in FIG. 5, so that the flanges 64A and 64B are to the front side of the edges of the wall 56, and then the cupholder 34 is slid downwardly and guided along wall 56.

The wall 33 of the cupholder 34 also has a pair of latch walls 66A and 66B between the side walls 61A and 61B. The latch walls 66A and 66B have latch recesses 67A and 67B which have upwardly facing shoulder surfaces that lock under shoulders 60A and 60B of the lugs 58A and 58B for locking the cupholder 34 in place. The latch walls 66A and 66B have edges that will slide along the tapered surfaces of the lugs 58A and 58B respectively, when the cupholder is moved downwardly in the direction indicated by the arrows 74. The lower ends of latch walls 66A and 66B are tapered as shown at 70 in FIG. 5 to aid in assembly as the cupholder is slid into place. The flanges 64A and 64B will flex so that the latch walls will ramp or slip over the lugs 58A and 58B on wall 56 upon the application of a reasonable amount of force in the direction of arrow 74. The lugs 58A and 58B will snap into the latch recesses and the cupholder 34 is locked on the mounting bracket. The latch is a one-way latch. The lower end of wall 44B has a center stop lug 75 that will prevent the cupholder 34 from being slid too far downwardly.

The cupholder 34 has side skirts 76 that are spaced apart enough and have vertical length sufficient to go over the ends of wall 44 and to cover the bolts 50 on both sides of the bracket 32. The side skirts 76 shield the bolts 50 from removal at the rear of the standard 10 unless the cupholder is forced off. Generally, the removal of the cupholder 34 will cause destruction of the mounting bracket or the cupholder, unless a special tool is used for resiliently bending the walls 56 and 62 to permit the lugs 58A and 58B to be released from recesses 67A and 67B.

The cupholder 34, as shown, can be in different forms. As shown in FIG. 1, the cupholder has a cup or container receptacle 80 formed by cylindrical wall 63 and also side pockets or receptacles 82 for holding various items such as a small program, or other written materials, and can have a receptacle 84 for a pen or pencil.

In FIG. 8, a modified version of the cupholder is shown at 90, installed on a mounting bracket 32. The cupholder 90 has side flanges or walls 92 that extend laterally from the main body 93 of the attachment block. The flanges 92 support rearwardly extending skirts 94 that cover the ends of the flange 20 on the standard, and the ends of the wall 44 of the mounting bracket 32, to completely shield the bolts 50, and the mounting slots or openings. The cupholder or drink container holder 90 has a receptacle 96 that receives a cup. A top wall 98 is also provided. The mounting block 93 has guides, as shown in FIG. 7. The mounting block also includes latch receptacles to receive the lugs 58A and 58B.

The mounting bracket 32 can be used for various styles of cupholders, as shown. This makes the final design of the cupholder adaptable to the particular installation that is desired. The cupholders do not have to be installed until the end of construction of the stadium. The mounting brackets themselves can be mounted at the time the standards are put in or when the seat backs are put into place.

Although the present invention has been described with reference to preferred embodiments, workers skilled in the art will recognize that changes may be made in form and detail without departing from the spirit and scope of the invention.

What is claimed is:

1. A mounting bracket for supporting a drink cupholder to fit onto a seat standard, said seat standard having [an upper armrest wall and] a rear facing wall, [a] the bracket for supporting said drink cupholder [having a mounting wall supportable on the upper armrest wall of the standard, and the bracket] having a support wall extending on [the] a rear side of the standard, said support wall having openings for receiving bolts used for connection with the standard, a guide wall for slidably receiving said drink cupholder when the drink cupholder is moved in a first direction to a first portion of the guide wall having at least one latch lug that mates with the drink cupholder to prevent removal of the drink cupholder in a second direction opposite from the first direction.

[2. The bracket of claim 1, wherein said at least one latch lug has tapered ramp surfaces sloping outwardly from the support wall in the first direction, and the at least one latch lug forming a shoulder generally perpendicular to the support wall facing in the first direction.]

[3. The bracket of claim 1, wherein said support wall has a central plane extending along a central plane of the seat standard, and said support wall has laterally extending portions extending laterally of the central plane of the seat standard, the support wall having said openings for bolts on the laterally extending portions of the support wall.]

[4. The bracket of claim 1, wherein said standard upper armrest wall has lateral flanges on the sides thereof, and flexible retainer clips on the mounting bracket for snapping onto the lateral flanges and retaining the mounting wall of the bracket on the upper armrest wall of the standard.]

[5. The bracket of claim 1, in combination with a drink cupholder having a receptacle for holding a drink cup, the drink cupholder having a holder wall mating with the support wall of the bracket, and a complementary surface on the mating wall for engaging the latch lug on the support wall.]

[6. The combination of claim 5, wherein said drink cupholder wall extends laterally to overlie the support wall.]

5

[7. The combination of claim 5, wherein said holder wall of said drink cupholder conforms in a complementary shape to at least one portion of the support wall of the bracket.]

[8. The bracket of claim 1, wherein the support wall has a lower part comprising a first wall section extending downwardly and rearwardly and a second wall section extending downwardly and forwardly from the first wall section.]

[9. The bracket of claim 8, wherein the mounting bracket has an upright track wall with lateral edges defining a track, the first and second support wall sections being wider laterally than the track wall, the latch lugs being on the track wall.]

[10. The bracket of claim 9, wherein the drink cupholder is used in combination with the bracket, the drink cupholder having attachment walls mating with the track wall, said drink cupholder wall having guides along opposite sides thereof for engaging the track defined by the lateral edges of the track wall, and a recess on the drink cupholder which aligns with and receives the latch lug on the track wall of the mounting bracket when the drink cupholder is moved to receive the track.]

[11. A mounting bracket for a drink cupholder to fit onto a seat standard, the seat standard having an upper armrest wall and a rear wall on a rear side of the standard, the mounting bracket including a mounting wall supportable on the upper armrest wall of the standard, and on the rear wall on the rear side of the standard, at least one wedge lug on the rear wall, said rear wall having a portion that is defined by generally vertical side edges, in combination with a cupholder having a cupholder wall with guides engaging the vertical side edges of the rear wall to retain the cupholder on the rear wall, and the cupholder wall having a surface formed to face and mate with the lug on the rear wall as the cupholder is slid along the rear wall vertical side edges to prevent removal of the cupholder.]

[12. The mounting bracket of claim 11, wherein there is a stop lug on the rear wall to prevent the cupholder from moving more than a selected amount when the cupholder is slid along the rear wall vertical side edges.]

[13. The mounting bracket of claim 11, wherein the bracket has a support wall with laterally extending portions at a lower end of the support wall that extend outwardly from the rear wall, said laterally extending portions having openings for receiving fasteners for securing the mounting bracket to the seat standard.]

[14. The mounting bracket of claim 13, wherein said cupholder has skirt portions that extend laterally outwardly beyond the support wall laterally extending portions to shield the fasteners.]

[15. A molded cupholder having a cupholder wall and a mounting portion, said mounting portion including a planar base wall having at least one wedge shaped latch having an inclined planar surface protruding outwardly from a plane surface of the planar base wall, and an outer end of the inclined planar surface forming a latch surface extending substantially perpendicularly from and joining the planar base surface, the wedge shaped latch positioned to engage a mating wedge shaped latch on a bracket on a seat standard, the cupholder mounting portion including a pair of spaced side shield walls that are on opposite sides of the base wall and extend outwardly from the plane surface, the spaced shield walls having intumed flanges at outer end thereof for slidably receiving edges of a support wall on the bracket on the seat standard, the latch surface of the wedge shaped latch on the base wall and a similar latch surface on a mating wedge shaped latch engaging as the side shield walls are slid along the support wall, and the side shield walls, the support

6

wall and base wall enclosing the wedge shaped latch on the base wall and the mating wedge shaped latch.]

16. A cupholder assembly comprising:

a mounting bracket mountable relative to a seat, standard;

a cupholder portion having a holder receptacle and the cupholder portion slidable along a generally upright mounting surface of the mounting bracket; and

a latching mechanism comprising at least one wedged shaped latch lug having an inclined planar surface protruding outwardly from the upright mounting surface in a downward direction to a tapered edge to form a latch surface extending from the tapered edge generally traverse to the upright mounting surface and the cupholder portion being slidable along the upright mounting surface in the downward direction to snap the at least wedged shaped latch lug into a latch recess so that the latch surface of the at least one wedged shaped latch lug abuts a latch surface of the cupholder portion.

17. The cupholder assembly of claim 16 wherein the latch mechanism comprises a plurality of wedge shaped latch lugs forming a plurality of inclined planar surfaces protruding outwardly from the upright mounting surface in a downward direction to tapered edges to form a plurality of latch surfaces extending from the tapered edges generally traverse to the upright mounting surface and the plurality of wedged shaped latch lugs configured to snap into a plurality of latch recesses so that the plurality of latch surfaces of the plurality of wedged shaped latch lugs abut a plurality of latch surfaces of the cupholder portion.

18. The cupholder assembly of claim 16 and comprising guide walls on the cupholder portion spaced to slide along edge surfaces of an upright mounting portion of the mounting bracket.

19. The cupholder assembly of claim 18 wherein the guide walls includes inwardly turned end portions.

20. The cupholder assembly of claim 16 wherein the mounting bracket includes a plurality of spaced fastener openings to attach the mounting bracket to the seat standard.

21. The cupholder assembly of claim 18 wherein the mounting bracket includes at least one fastener opening.

22. A cupholder assembly comprising:

a mounting bracket mountable relative to a seat standard;

a cupholder portion having a holder receptacle; and

a latch assembly comprising at least one latch lug having a latch surface generally traverse to an upright mounting surface of the mounting bracket and the cupholder portion being slidable in a first direction to latch the cupholder portion to the mounting bracket and in a latched position, the latch surface of the at least one latch lug is adjacent to an opposing surface of the latch assembly so that the latch surface of the at least one latch lug contacts the opposing surface when the cupholder portion is moved in a second direction opposite to the first direction.

23. The cupholder assembly of claim 22 wherein the latch assembly comprises a plurality of latch lugs forming a plurality of latch surfaces generally traverse to the upright mounting surface and in the latched position, the plurality of latch surfaces of the plurality of latch lugs are adjacent to a plurality of opposing surfaces so the plurality of latch surfaces contact the plurality of opposing surfaces when the cupholder portion is moved in the second direction.

24. The cupholder assembly of claim 22 and comprising guide walls on the cupholder portion spaced to slide along edge surfaces of an upright mounting portion of the mounting bracket.

7

25. The cupholder assembly of claim 24 wherein the guide walls includes inwardly turned end portions.

26. The cupholder assembly of claim 22 wherein the mounting bracket includes at least one fastener opening.

27. The cupholder assembly of claim 22 wherein the mounting bracket includes a plurality of spaced fastener openings to attach the mounting bracket to the seat standard.

28. The cupholder assembly of claim 22 wherein the at least one latch lug is wedged shaped.

29. A cupholder assembly comprising:

a mounting bracket mountable relative to the seat assembly;

a cupholder portion having a cupholder receptacle; and

a latch assembly configured to latch the cupholder portion to the mounting bracket comprising a first latch portion including a wedged shaped latch forming a latch surface and the cupholder portion being slideable along a guiding surface of the mounting bracket in a first direction generally traverse to an orientation of the latch surface to engage the latch assembly so that the latch surface of the first latch portion contacts an opposing latch surface of a second latch portion when the cup-

8

holder is moved in a second direction opposite to the first direction.

30. The cupholder of claim 29 wherein the wedged shaped latch is generally enclosed between the mounting bracket and the cupholder portion when the latch assembly is engaged.

31. The cupholder assembly of claim 29 wherein the mounting bracket is mounted to the seat assembly via a fastener insertable into at least one fastener opening in the mounting bracket.

32. The cupholder assembly of claim 29 in combination with the seat assembly comprising a seat standard and seat back and wherein the mounting bracket is fastened to the seat standard.

33. The cupholder assembly of claim 29 wherein the latch assembly includes inturned flange portions slideable along side edges of a track or rail to engage the latch assembly.

34. The cupholder assembly of claim 29 wherein the latch assembly is a one-way latch and is releasable using a separate device or tool.

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