



US00D489859S

(12)

United States Design Patent

Yamada

(10) Patent No.:

US D489,859 S

(45) Date of Patent:

** May 11, 2004

(54)

CHAIR FOR STAIR ELEVATING LIFT

(75)

Inventor: Keiichi Yamada, Osaka (JP)

(73)

Assignee: Kumalift Engineering Laboratory Co., Ltd., Osaka (JP)

(**) Term:

14 Years

(21)

Appl. No.: 29/162,467

(22)

Filed: Jun. 18, 2002

(51)

LOC (7) Cl. 12-05

(52)

U.S. Cl. D34/28

(58)

Field of Search D34/28, 33; D12/128, D12/133; 180/907; 280/304.1; 187/200, 901, 201, 202; 414/785, 539-541, 678, 921; 5/81.1 R, 80.1, 89.1, 87.1, 600, 83.1, 81.1 T, 86.1; D24/183

(56)

References Cited

U.S. PATENT DOCUMENTS

4,043,427 A * 8/1977 Ackerman 187/201

4,613,151 A * 9/1986 Kielczewski 280/650

4,614,246 A * 9/1986 Masse et al. 180/6.5

5,035,467 A * 7/1991 Axelson et al. 297/440.22

5,230,405 A * 7/1993 Bartelt 187/201

D357,653 S * 4/1995 Kruse D12/131

D365,907 S * 1/1996 Mishler D34/28

5,533,594 A * 7/1996 Tremblay et al. 187/201

5,697,465 A * 12/1997 Kruse 180/65.1

6,176,335 B1 * 1/2001 Schaffner et al. 180/65.1

D440,728 S * 4/2001 Schlangen D34/28

D444,421 S * 7/2001 Cheng D12/131

6,332,512 B1 * 12/2001 Muranaka 187/201

D454,814 S * 3/2002 Ou D12/128

6,360,833 B1 * 3/2002 Valencia 180/7.5

6,378,659 B1 * 4/2002 Krumbeck 187/200

6,435,308 B2 * 8/2002 Grass 187/201

D468,669 S * 1/2003 Hopely, Jr. D12/131

6,533,523 B1 * 3/2003 Zamotin 414/343

* cited by examiner

Primary Examiner—Cynthia E. Ramirez

(74) Attorney, Agent, or Firm—Wenderoth, Lind & Ponack, L.L.P.

(57)

CLAIM

The ornamental design for chair for stair elevating lift, as shown and described.

DESCRIPTION

FIG. 1 is a plan view of the chair for stair elevating lift of this Design;

FIG. 2 is a front view thereof;

FIG. 3 is a bottom view thereof;

FIG. 4 is a back view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a perspective view thereof; and,

FIG. 8 is a view showing how the article is used.

The broken line showing of a base, rail and stairs is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets

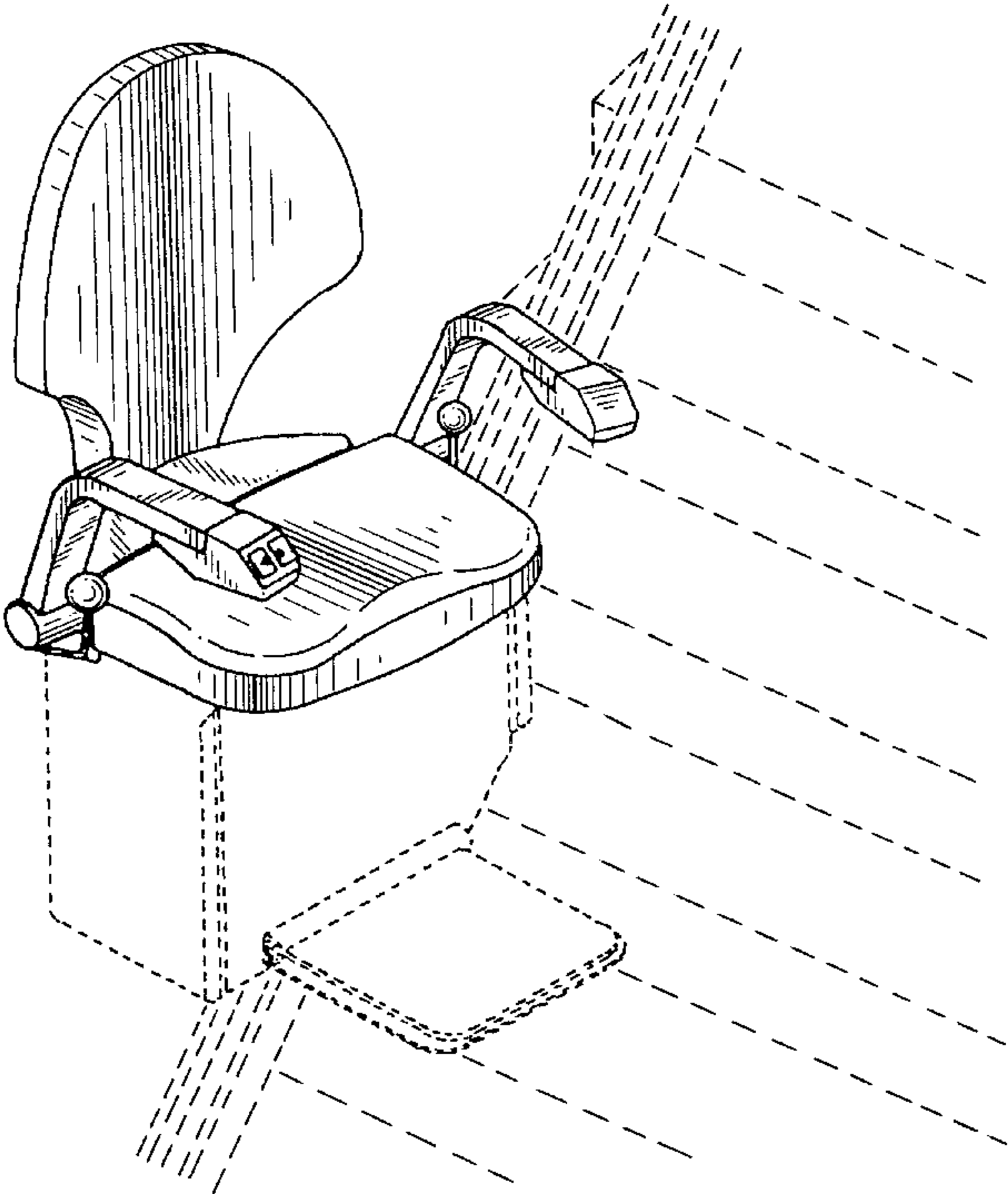


Fig. 1

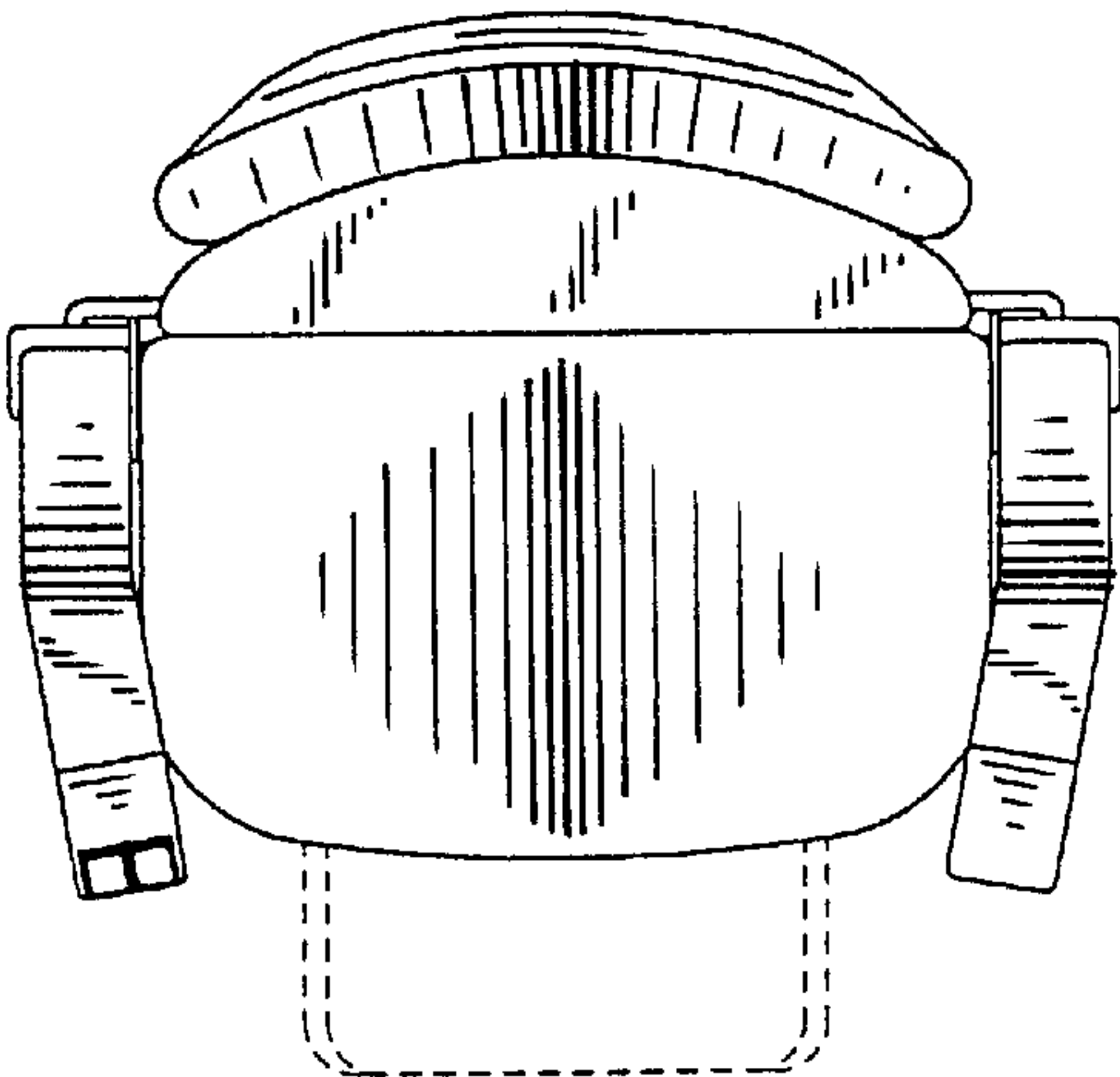


Fig. 2

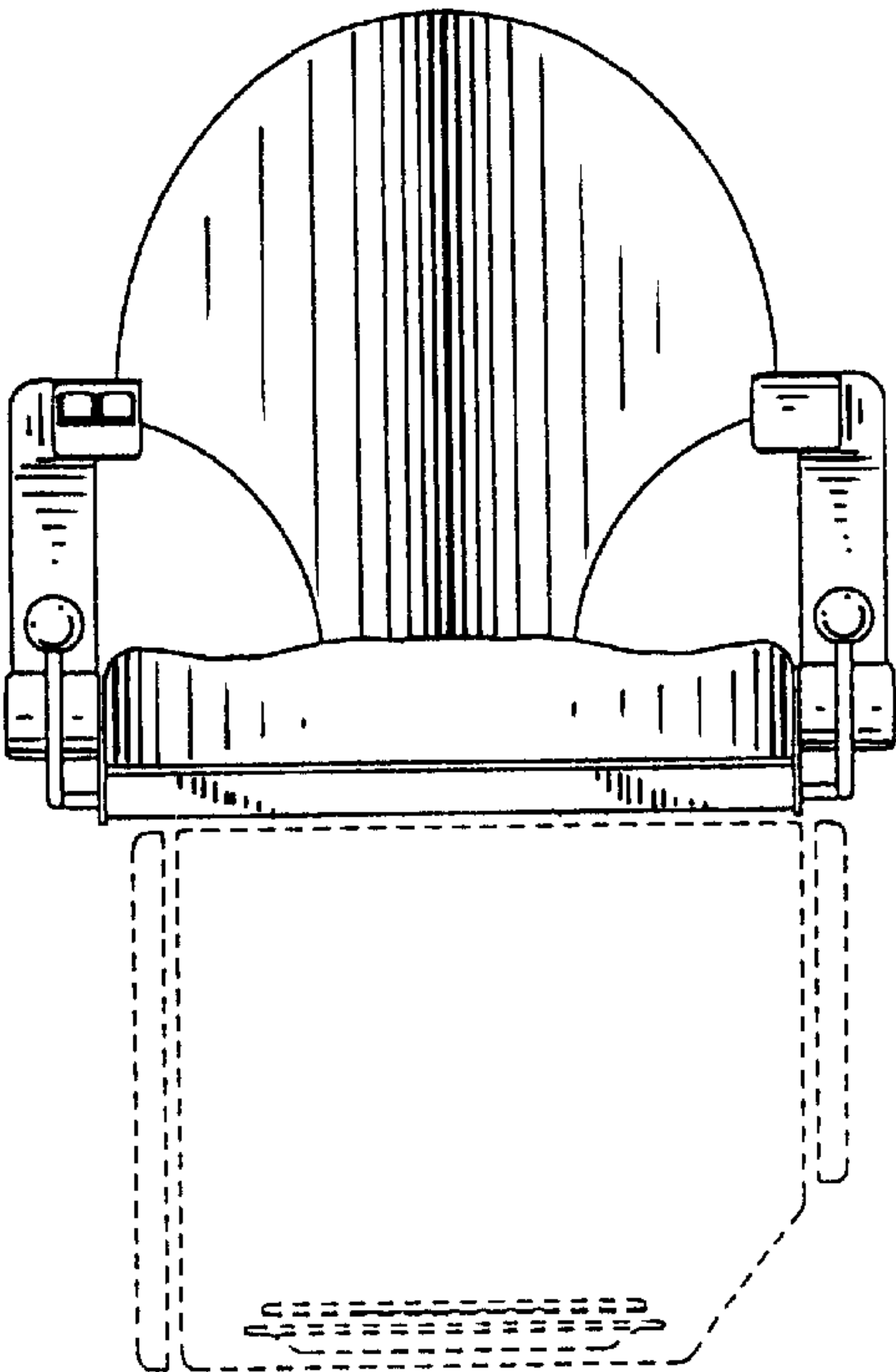


Fig. 3

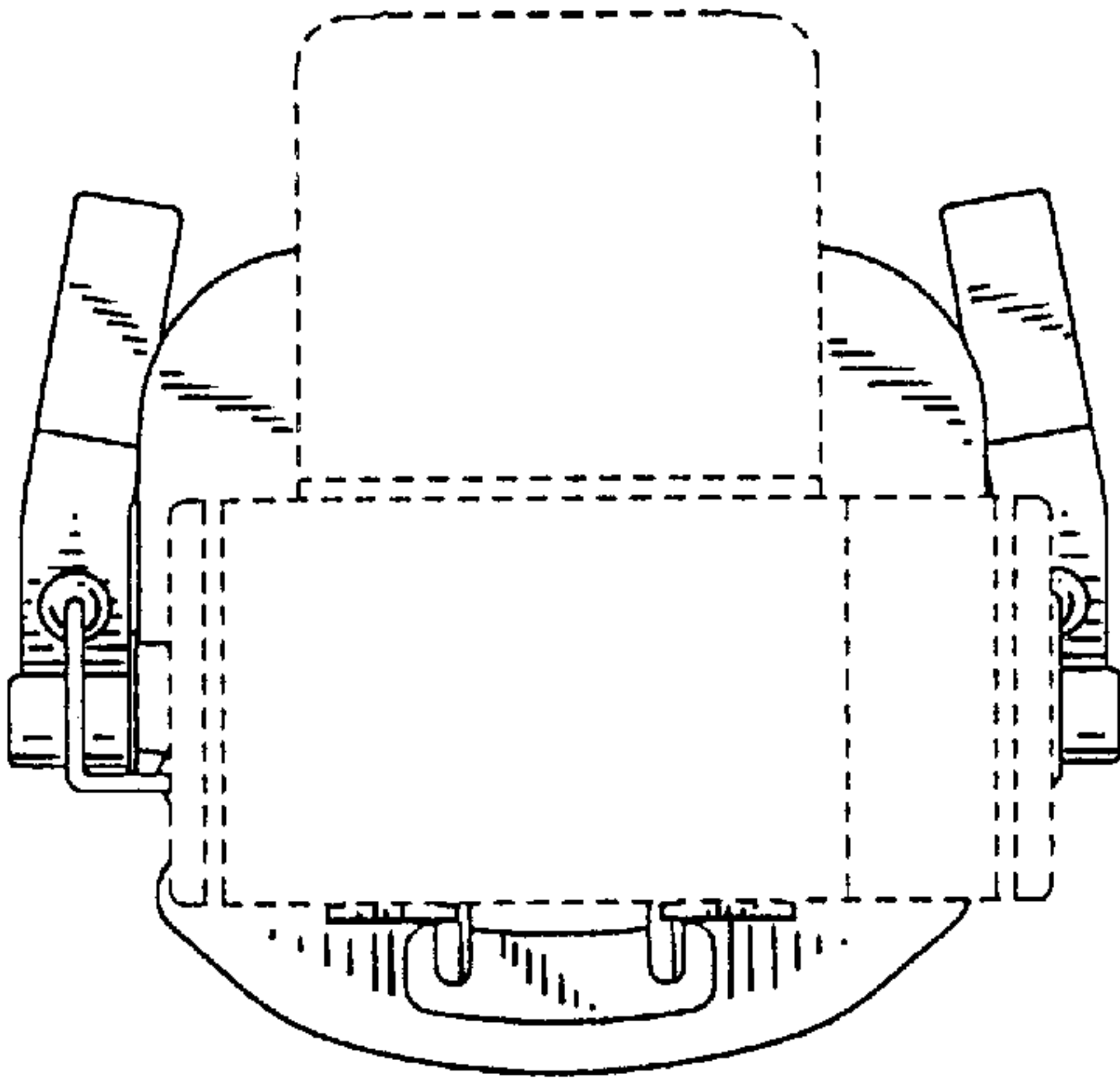


Fig. 4

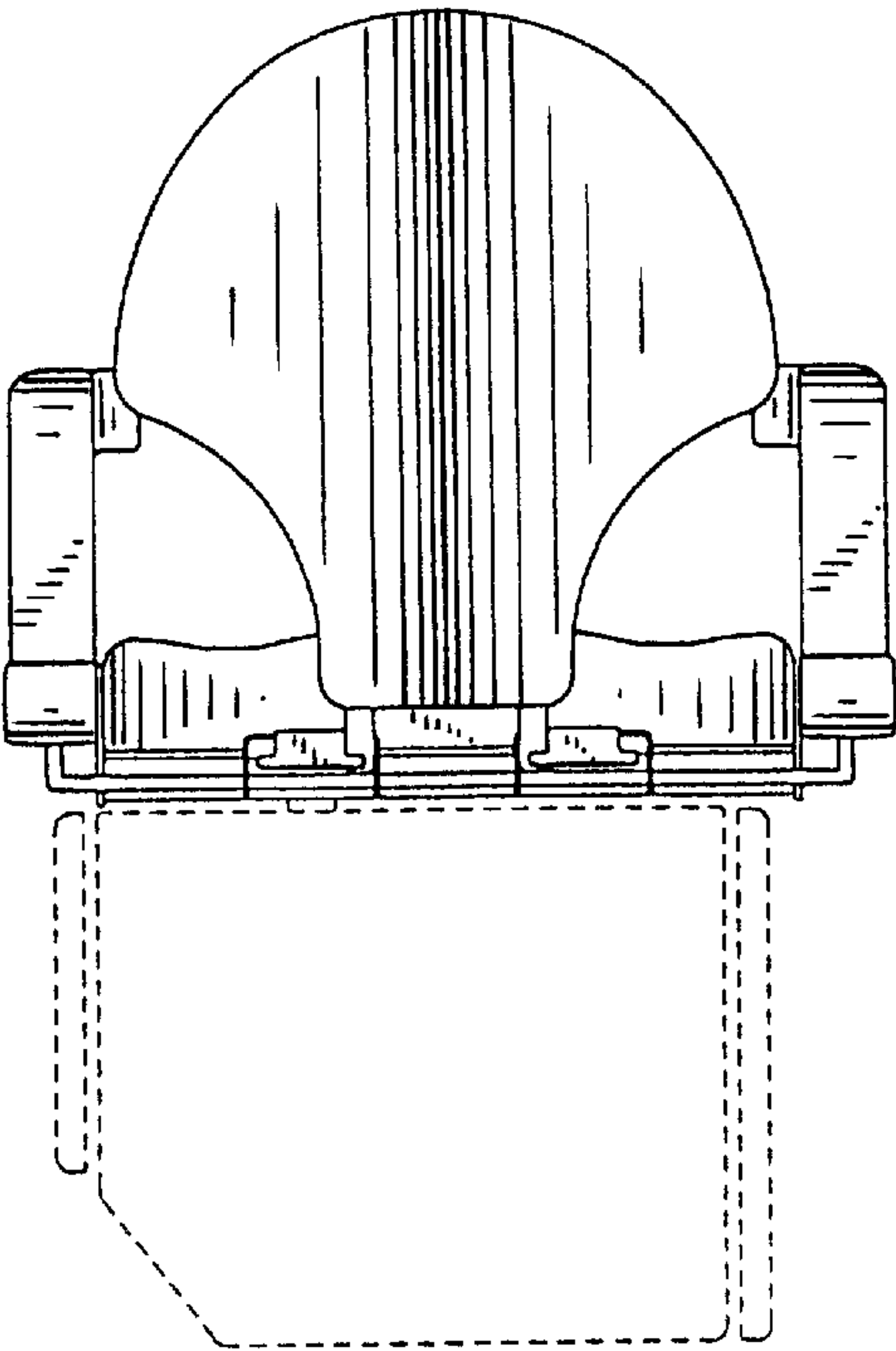


Fig. 5

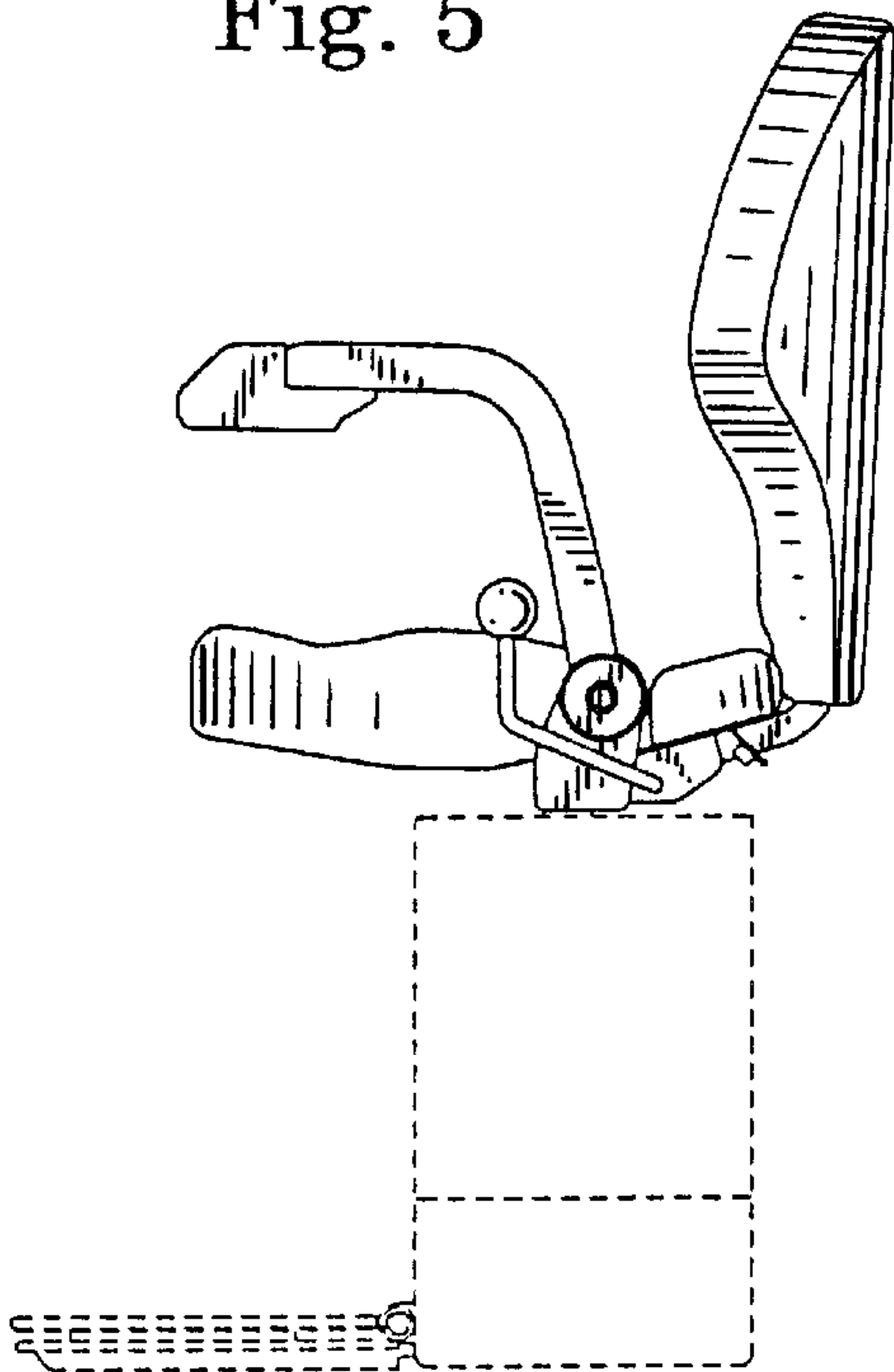


Fig. 6

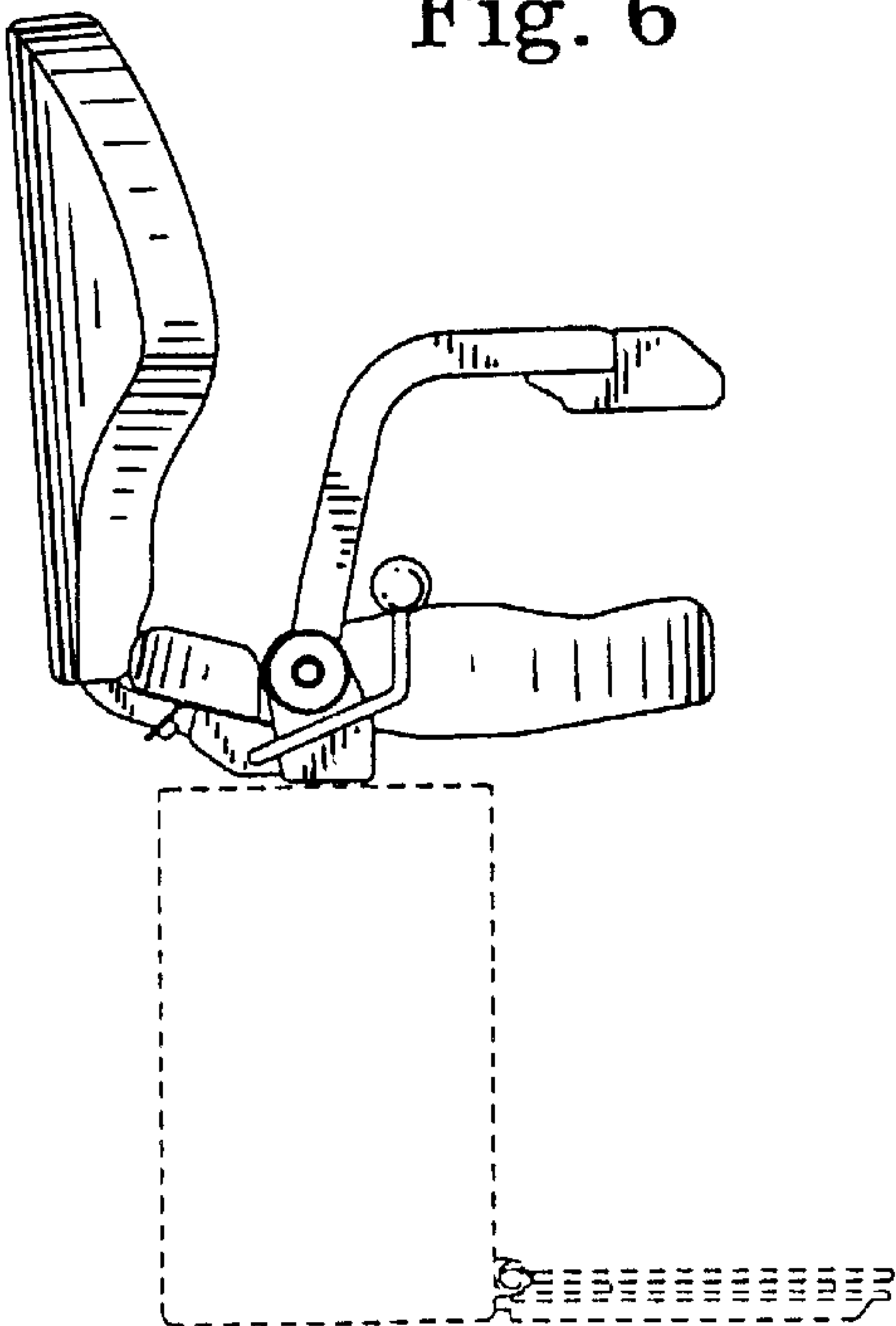


Fig. 7

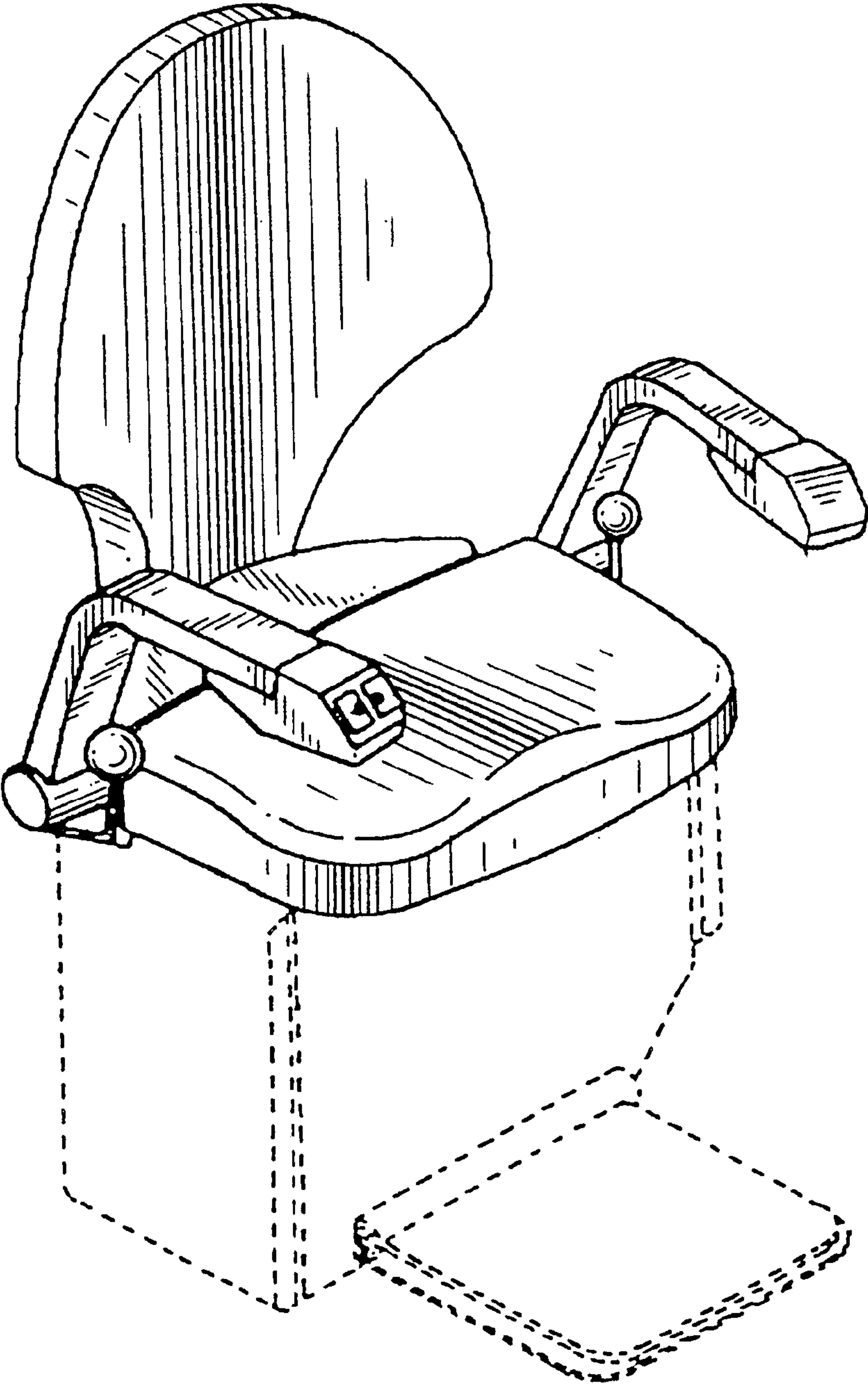


Fig. 8

