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(12) **United States Design Patent**
Kosunen et al.

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(45) **Date of Patent:** **** Apr. 28, 2009**

(54) **CLAMPING SLEEVE FOR TELESCOPIC SHAFT**

DE 100 54 612 4/2001
EP 0 641 578 3/1995

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* cited by examiner

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(**) Term: **14 Years**

(21) Appl. No.: **29/259,491**

(57) **CLAIM**

(22) Filed: **May 9, 2006**

The ornamental design for a clamping sleeve for telescopic shaft, as shown and described.

(51) **LOC (9) Cl.** **08-08**

DESCRIPTION

(52) **U.S. Cl.** **D8/396**

(58) **Field of Classification Search** D8/356,
D8/394–396, 371; 24/570, 67.9; 403/102,
403/109.8; 248/74.2, 215, 227.1, 49, 300,
248/301, 316.7, 51, 489

FIG. 1 is a side view of the clamping sleeve of the present invention, an environment in which the clamping sleeve may be used being shown in broken lines;

See application file for complete search history.

FIG. 2 is a perspective view of the clamping sleeve;

(56) **References Cited**

FIG. 3 is a view of one side of the clamping sleeve;

U.S. PATENT DOCUMENTS

FIG. 4 is a view of the clamping sleeve from right when the clamping sleeve is oriented as shown in FIG. 3;

5,478,117 A * 12/1995 Quintana et al. 280/823

FIG. 5 is a view of the side of the clamping sleeve opposite to that shown in FIG. 3;

D419,187 S * 1/2000 Chuang D19/36

D475,085 S * 5/2003 Whitehorn D19/36

7,029,197 B2 * 4/2006 Lin et al. 403/353

FIG. 6 is a top view of the clamping sleeve when the clamping sleeve is oriented as shown in FIG. 3; and,

2002/0076266 A1 6/2002 Mandon et al.

FIG. 7 is a bottom view of the clamping sleeve.

2005/0005862 A1 * 1/2005 Paquette 119/51.01

2006/0133889 A1 * 6/2006 Warner 403/109.4

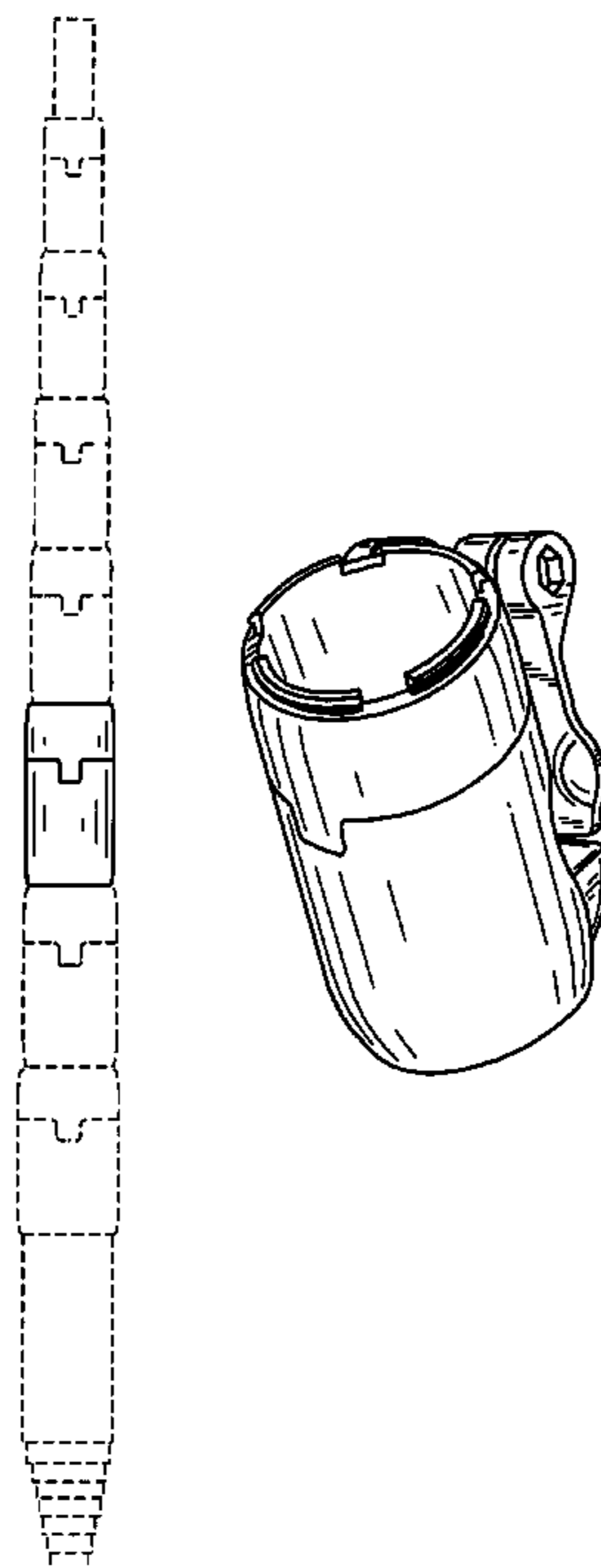
The broken lines in FIG. 1 depict environment only and form no part of the claimed design.

2006/0158549 A1 * 7/2006 Digweed et al. 348/373

FOREIGN PATENT DOCUMENTS

DE 2026732 12/1971

1 Claim, 3 Drawing Sheets



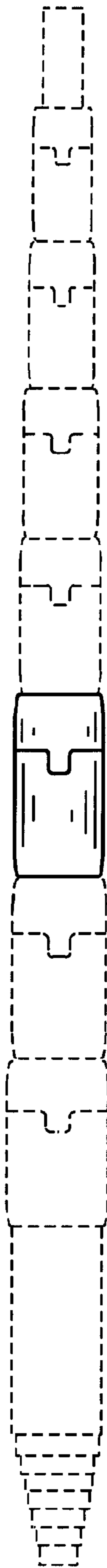


FIG. 1

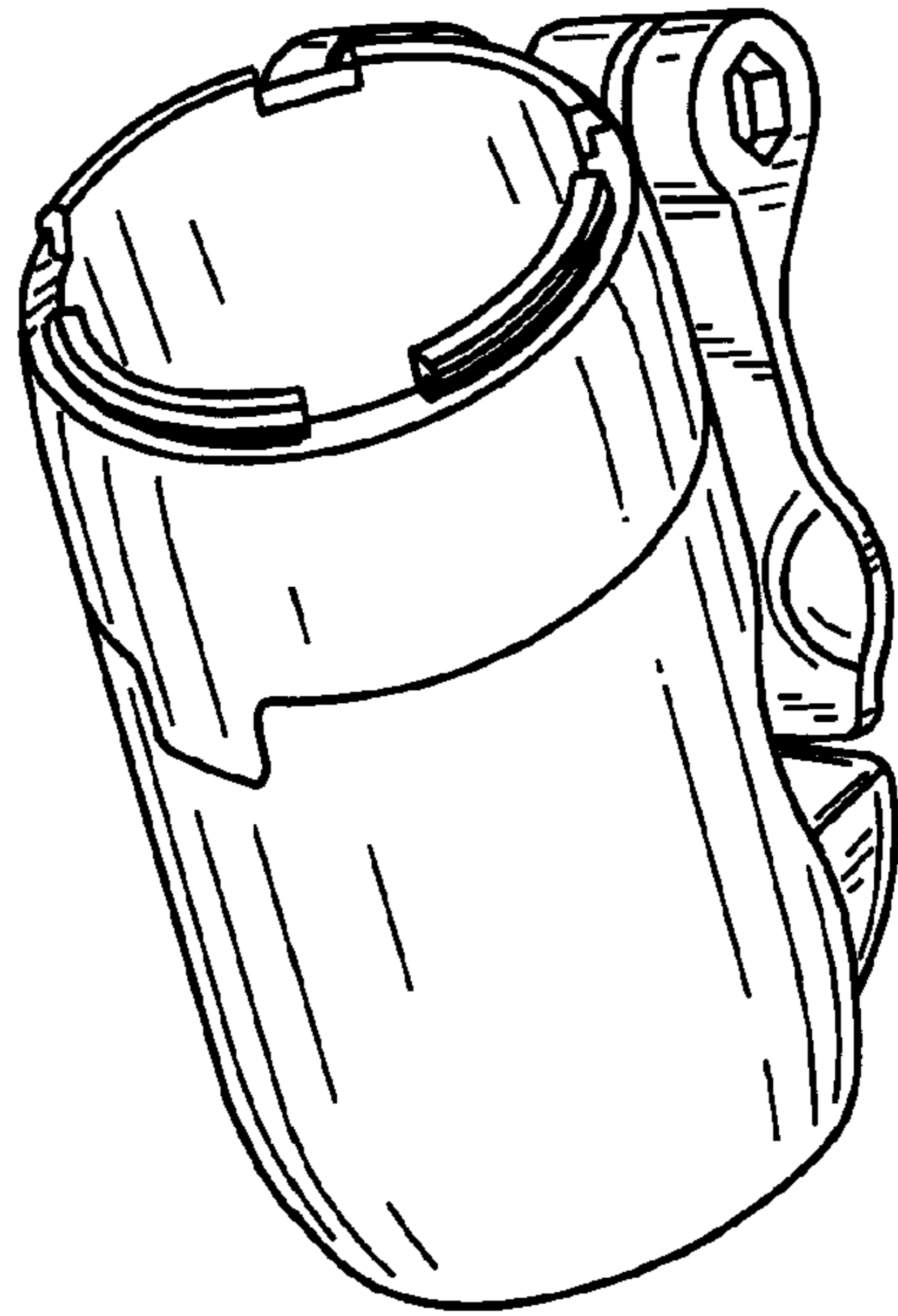


FIG. 2

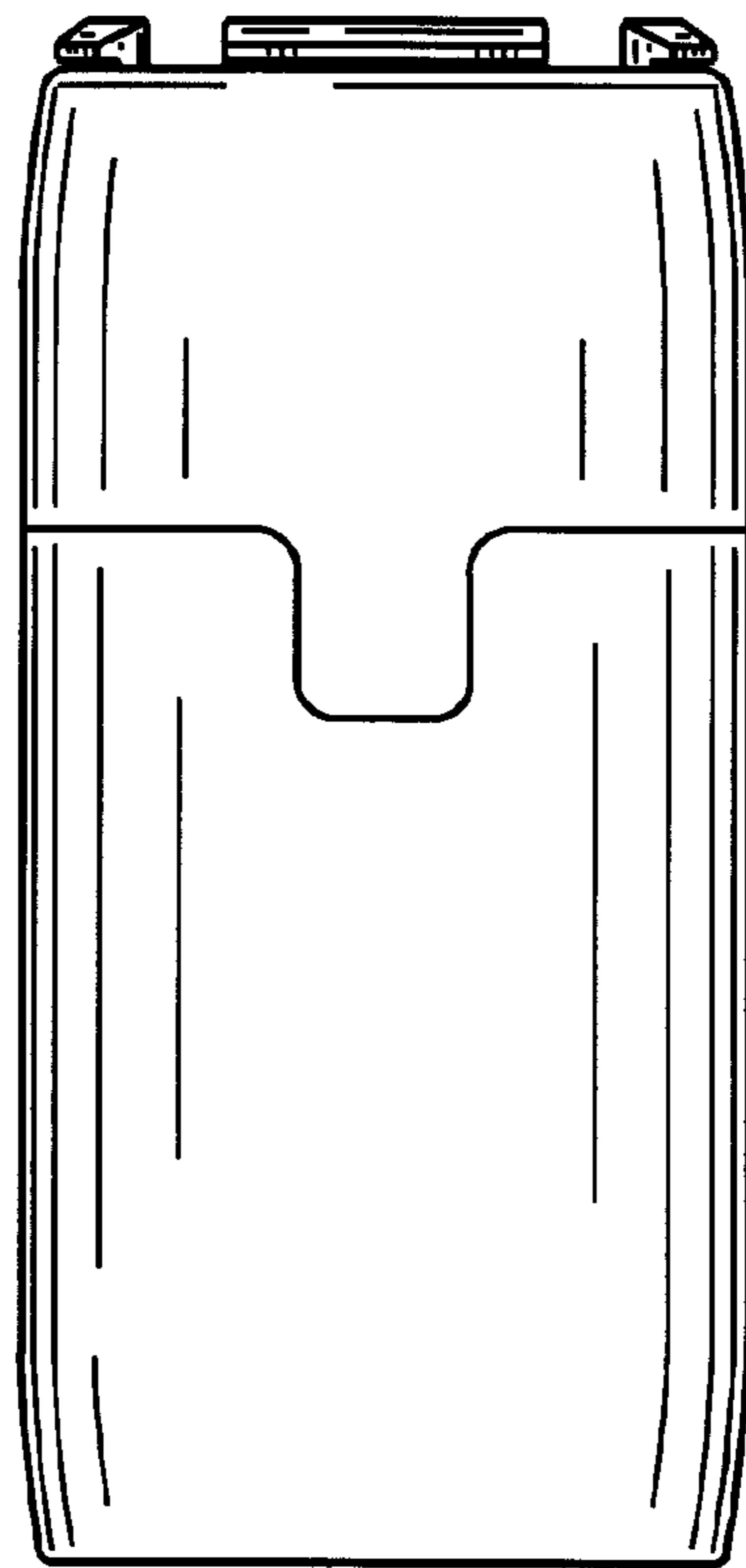


FIG. 3

FIG. 4

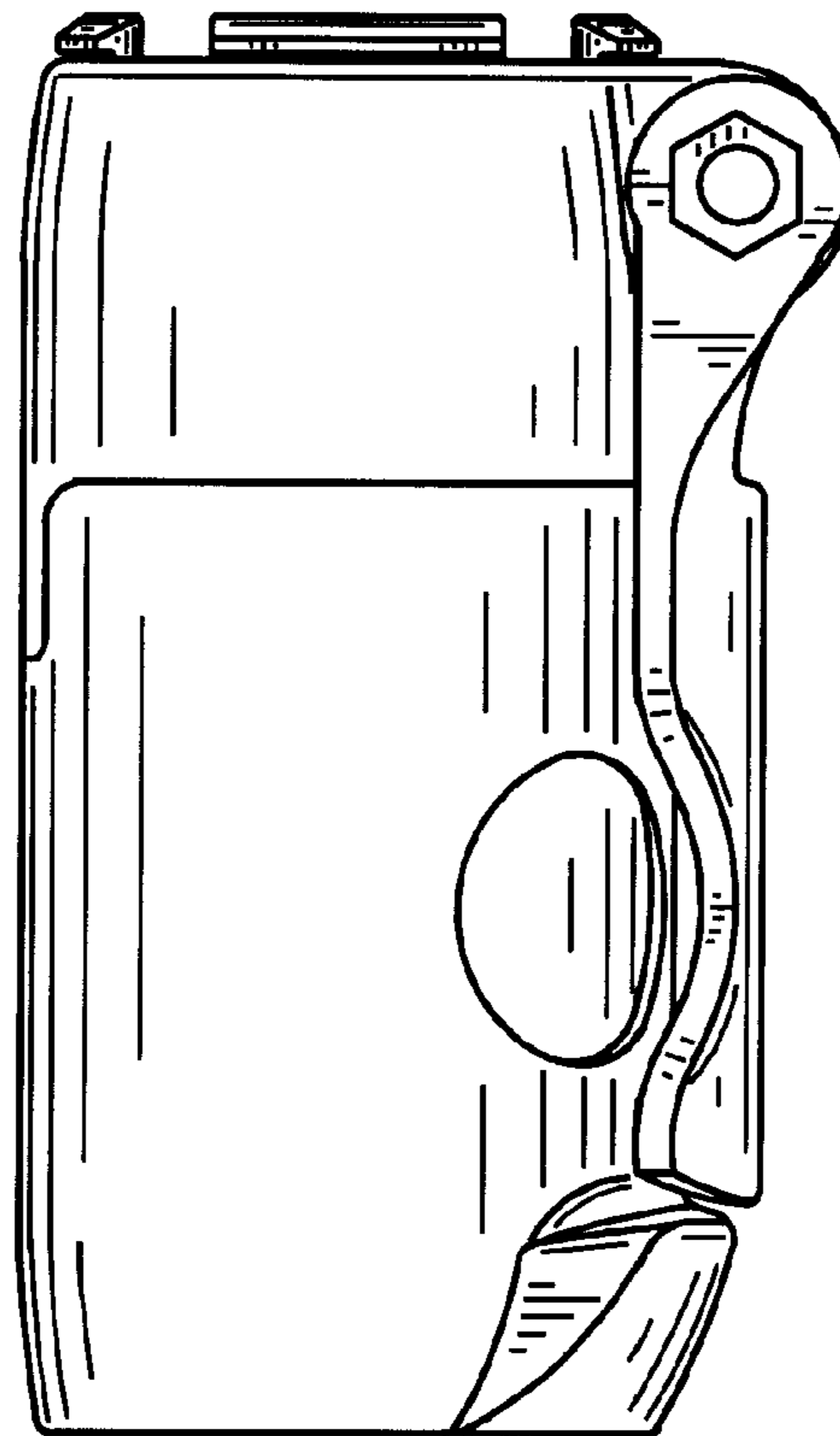


FIG. 5

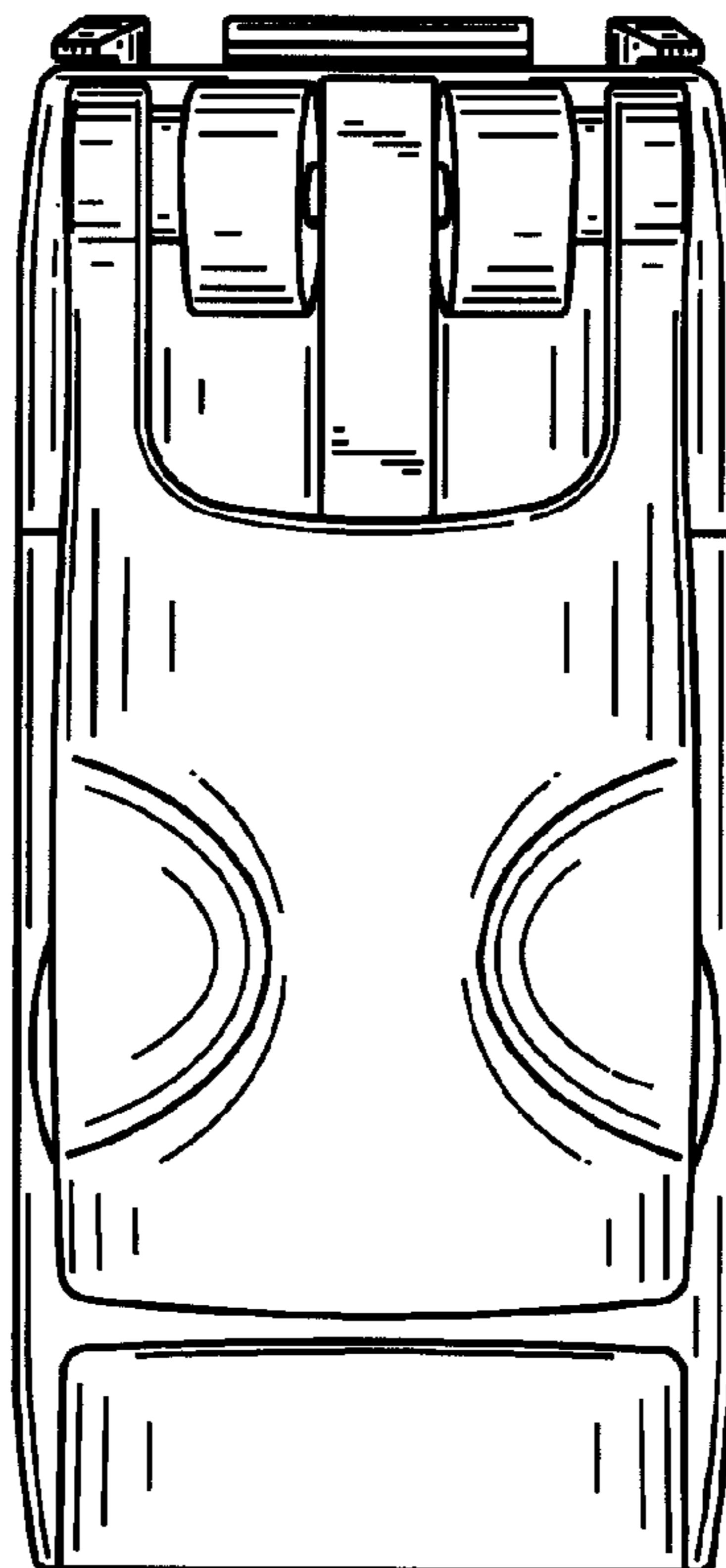


FIG. 6

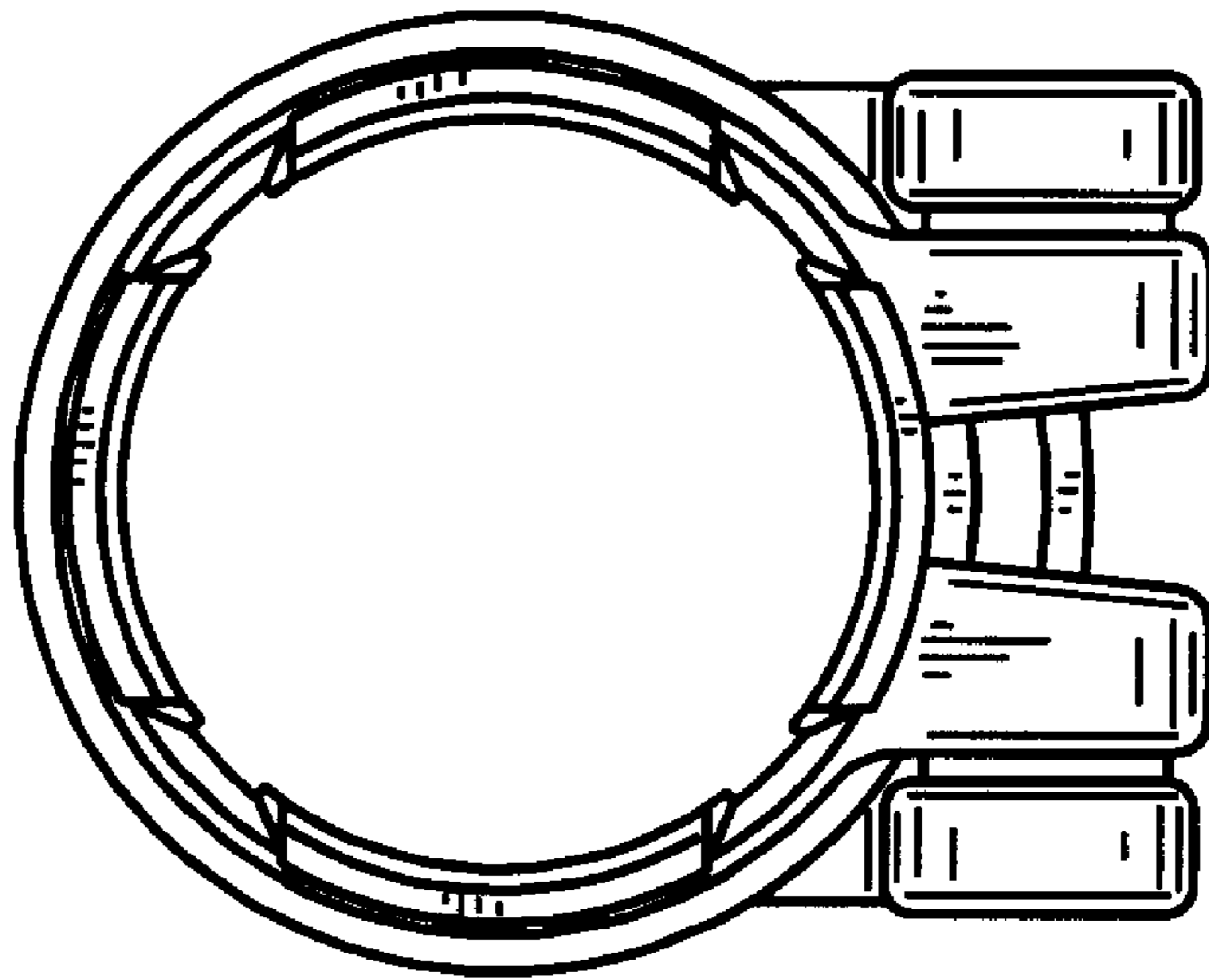


FIG. 7

