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United States Patent [19]

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Kaneko et al.

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[54] POINTING DEVICE

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[73] Assignee: Microsoft Corporation, Redmond, Wash.

[**] Term: 14 Years

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[52] U.S. Cl. D14/114

[58] Field of Search D14/100, 107, D14/114; D13/158; D21/48; 178/18-19; 200/5 R, 5 A, 6 R, 6 A; 213/148 B; 273/148 B, 438; 345/156-67; 74/471 XY

[56] References Cited

U.S. PATENT DOCUMENTS

| | | | |
|------------|---------|-------------------|----------|
| D. 272,921 | 3/1984 | Kim | D21/49 |
| D. 281,776 | 12/1985 | Griffin | D21/48 X |
| D. 289,306 | 4/1987 | Burnstein et al. | D21/48 |
| D. 291,318 | 8/1987 | Kim | D14/114 |
| D. 292,600 | 11/1987 | Wagner | D21/48 |
| D. 299,140 | 12/1988 | Nakamura | D14/114 |
| D. 302,010 | 7/1989 | McLaughlin et al. | D14/114 |
| D. 315,552 | 3/1991 | Sacherman | D14/114 |
| D. 326,261 | 5/1992 | Ashmun et al. | D14/114 |
| D. 335,656 | 5/1993 | Garthwaite et al. | D14/114 |
| D. 347,628 | 6/1994 | Ashmura et al. | D14/114 |
| 3,395,589 | 8/1968 | Gertsen | 74/471 |
| 3,625,083 | 12/1971 | Bose | 74/471 |
| 4,404,865 | 9/1983 | Kim | 74/471 |
| 4,533,830 | 8/1985 | Beauprey | 250/231 |
| 4,538,476 | 9/1985 | Luque | 74/471 |
| 4,562,347 | 12/1985 | Hovey et al. | 250/221 |
| 4,581,609 | 4/1986 | Hosogoe et al. | 340/710 |
| 4,786,892 | 11/1988 | Kubo et al. | 340/365 |
| 4,799,049 | 1/1989 | Avila | 340/709 |

| | | | |
|-----------|---------|-------------------|-----------|
| 4,801,931 | 1/1989 | Schmidt | 340/710 |
| 4,823,634 | 4/1989 | Culver | 74/471 |
| 4,862,165 | 8/1989 | Gart | D14/114 X |
| 4,913,387 | 4/1990 | Tice | 248/918 |
| 4,952,919 | 8/1990 | Nippoldt | D14/114 X |
| 5,008,528 | 4/1991 | Duchon | 250/221 |
| 5,122,654 | 6/1992 | Koh et al. | D14/114 X |
| 5,187,468 | 2/1993 | Garthwaite et al. | 340/709 |
| 5,252,970 | 10/1993 | Baronosky | 341/20 |
| 5,268,675 | 12/1993 | Garthwaite et al. | 345/163 |
| 5,281,958 | 1/1994 | Ashmun et al. | 345/157 |

FOREIGN PATENT DOCUMENTS

| | | | |
|-----------|---------|--------------------|-----------|
| 0509337A2 | 10/1992 | European Pat. Off. | G06F 1/16 |
| 2154306 | 9/1985 | United Kingdom | G05G 9/04 |

OTHER PUBLICATIONS

1990, "Roller Controller" CD-Interactive Pointing Device by Philips.
Krohn, Nico, "Two Prohance Trackballs Offer Easy Thumb Control," *Infoworld*, Oct. 1, 1990.
Lusty, Susan and Lincoln Spector, "Keyboards, Mice, and Trackballs With the Personal Touch," *PC World*, Jun. 1990, pp. 166-170.
Webster, Bruce F., "The Macintosh Portable," *MAC-WORLD*, Nov. 1989.

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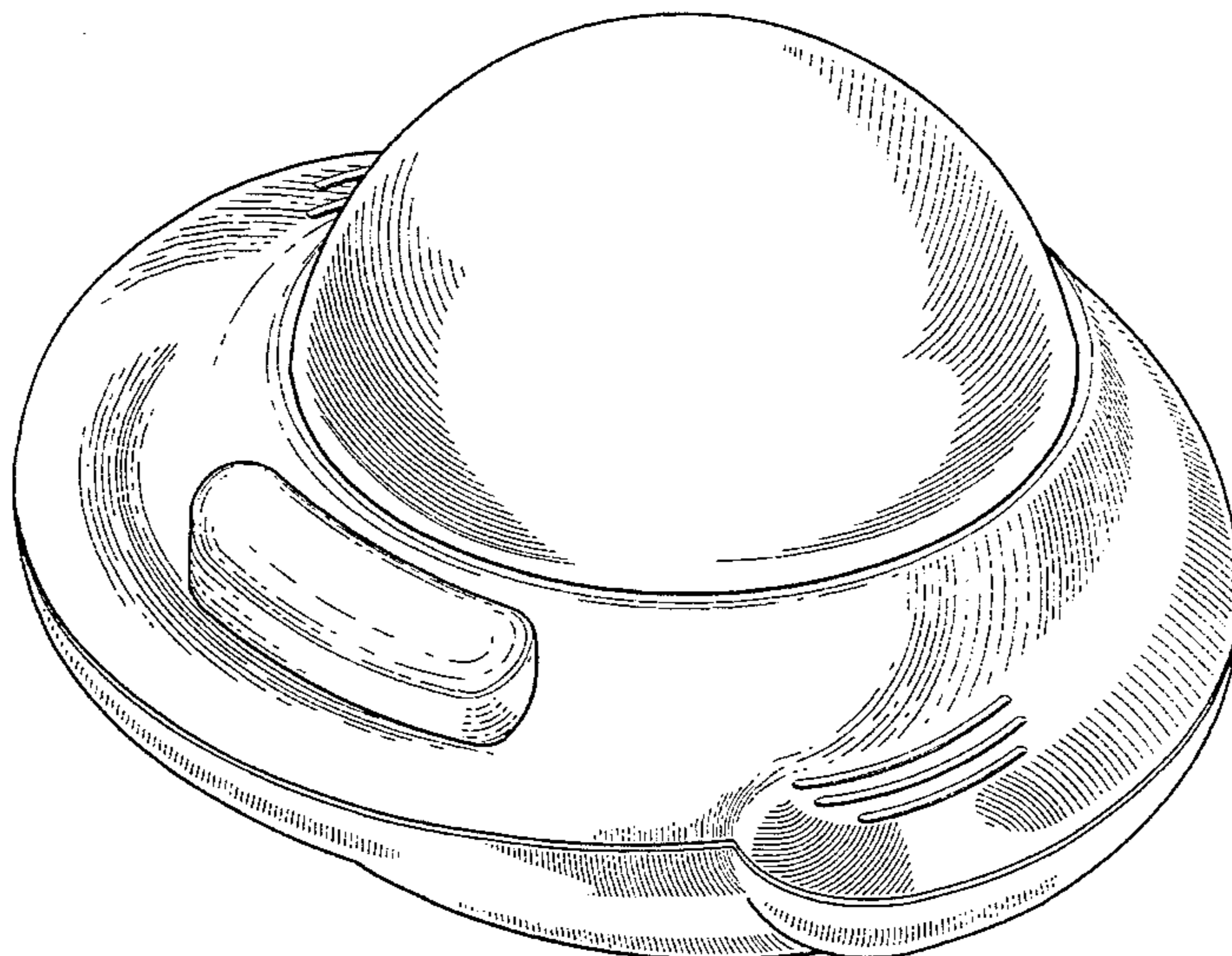
[57] CLAIM

The ornamental design for a pointing device, as shown and described.

DESCRIPTION

FIG. 1 is a front isometric view of a pointing device showing our new design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a right side elevational view thereof;
FIG. 5 is a left side elevational view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof.

1 Claim, 7 Drawing Sheets



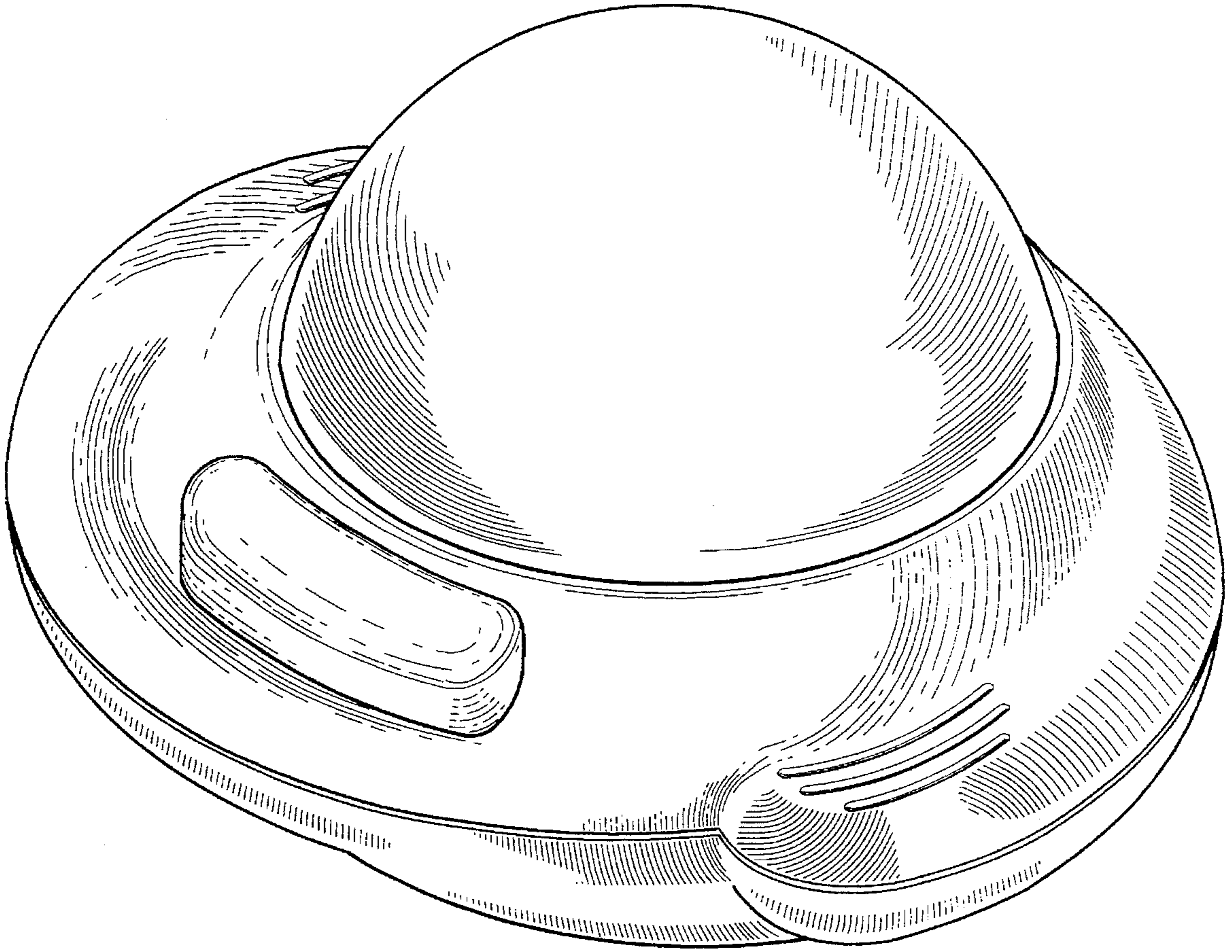


Fig. 1

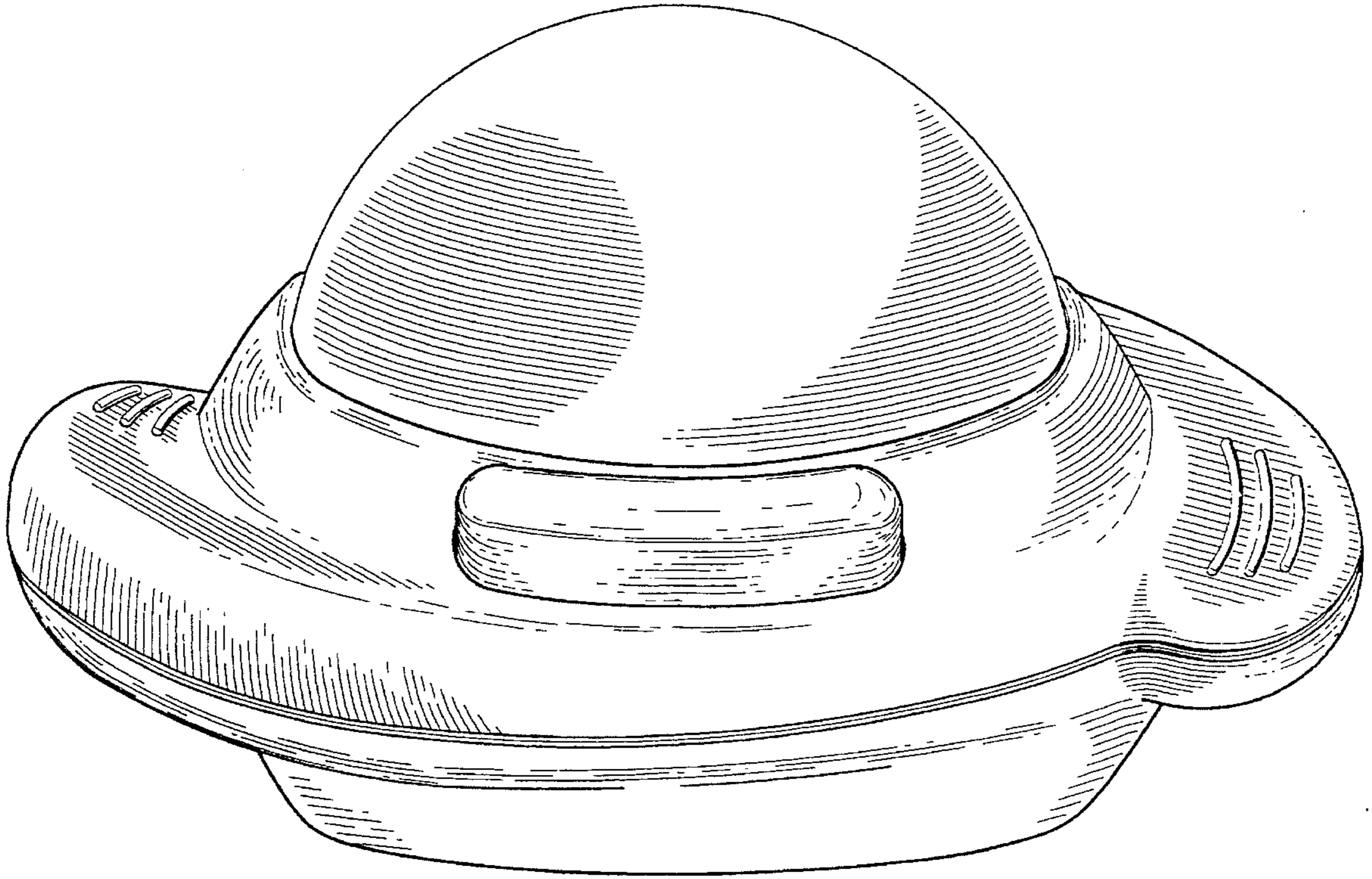


Fig. 2

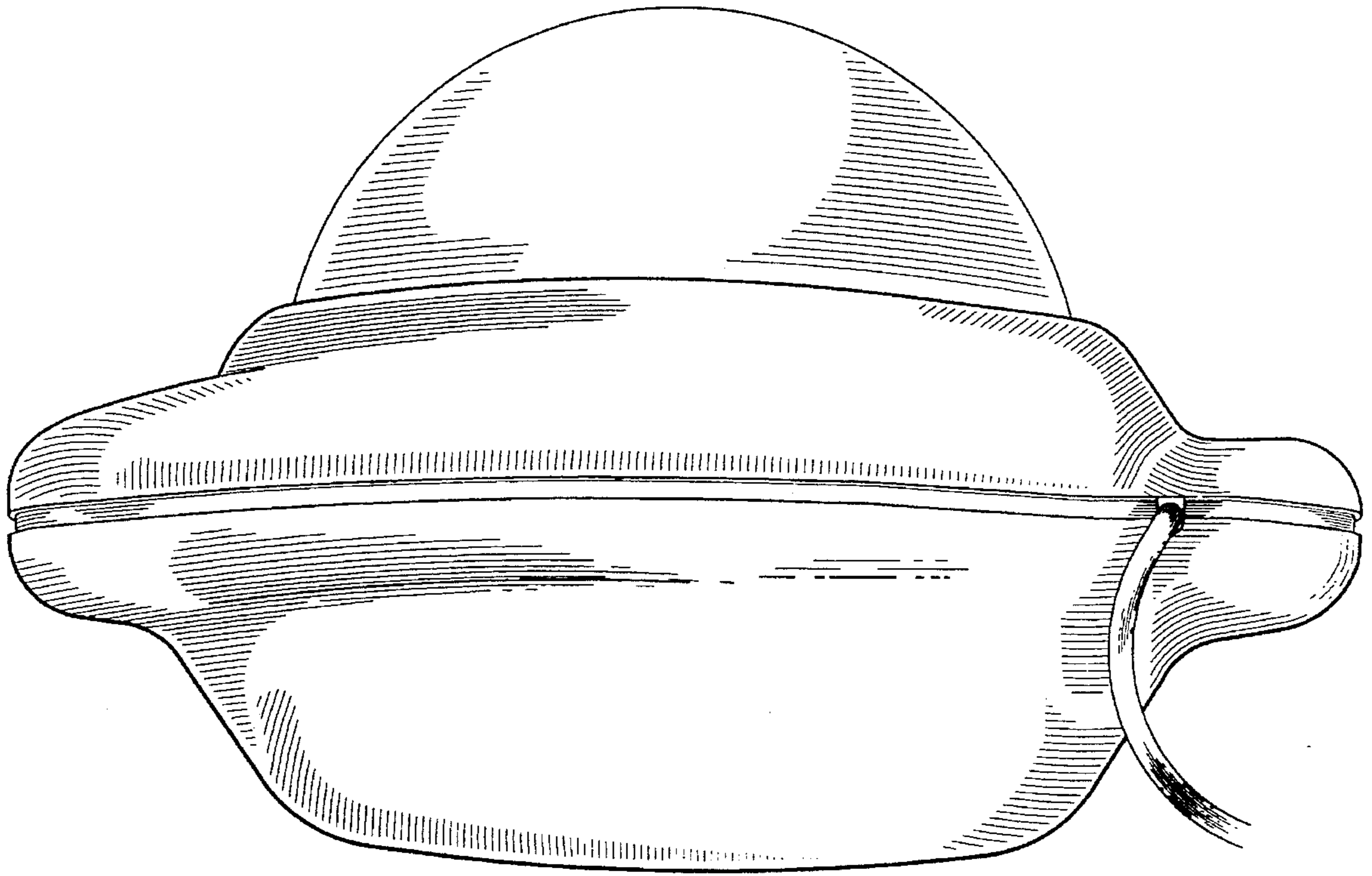


Fig. 3

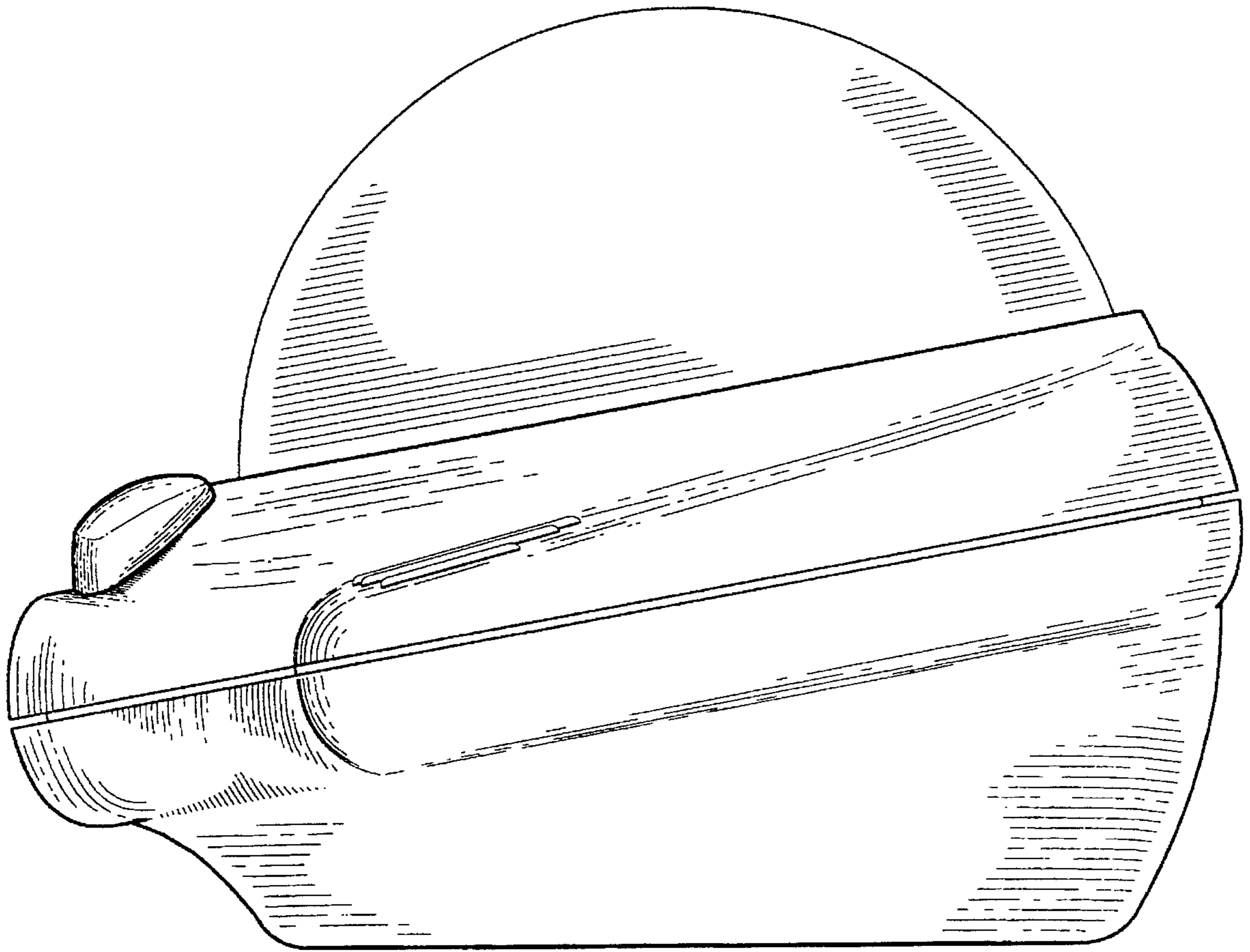


Fig. 4

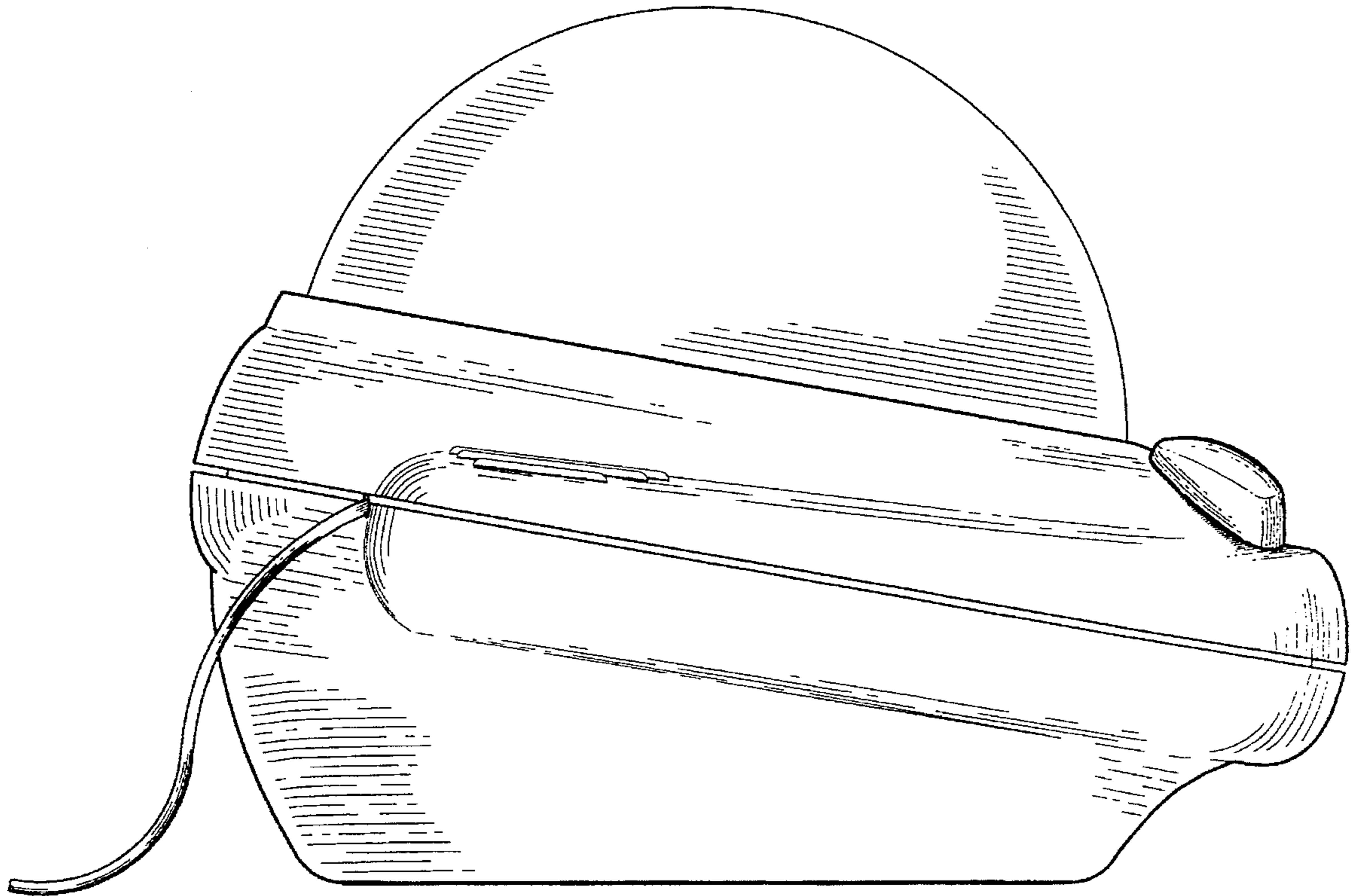


Fig. 5

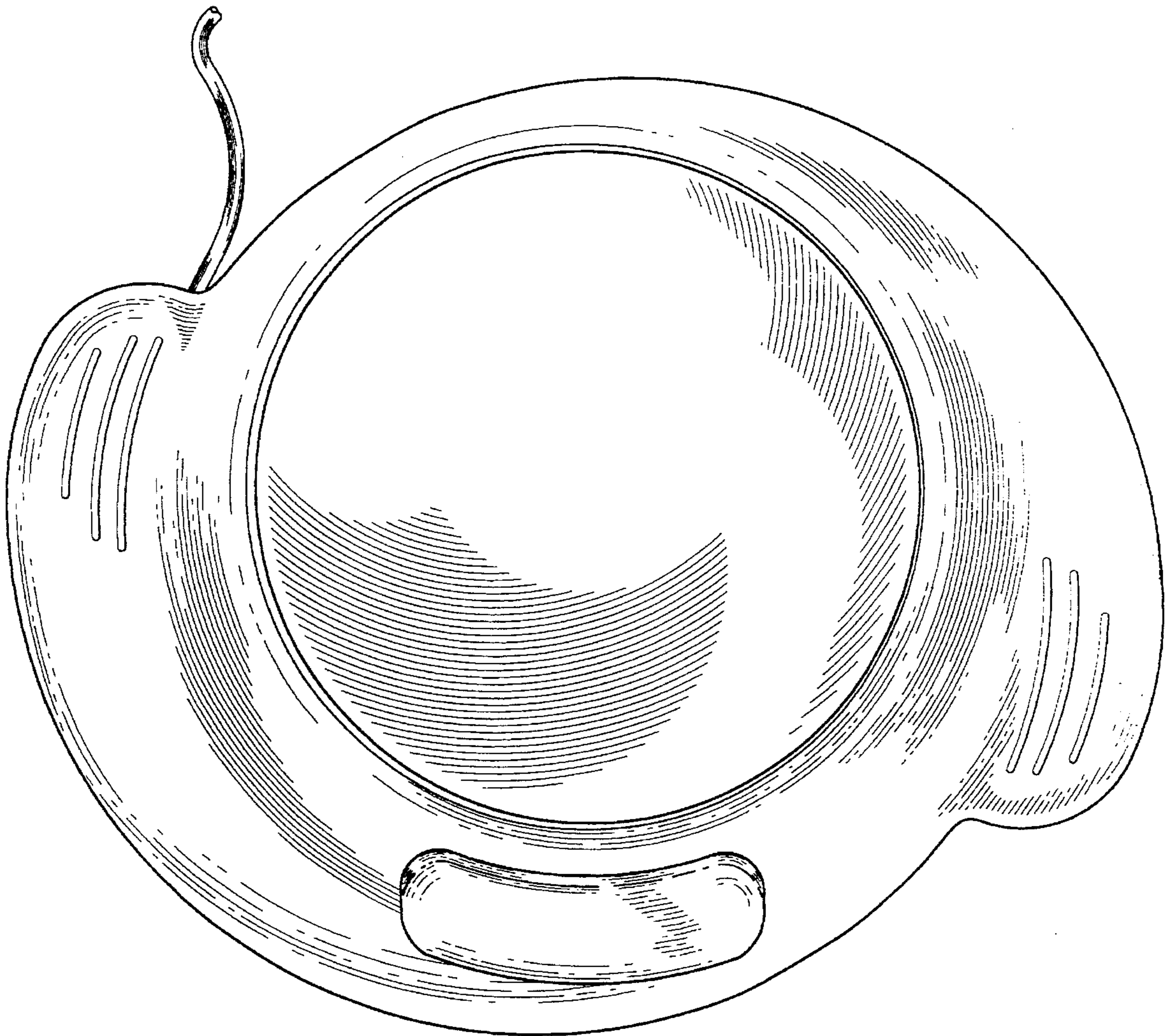


Fig. 6

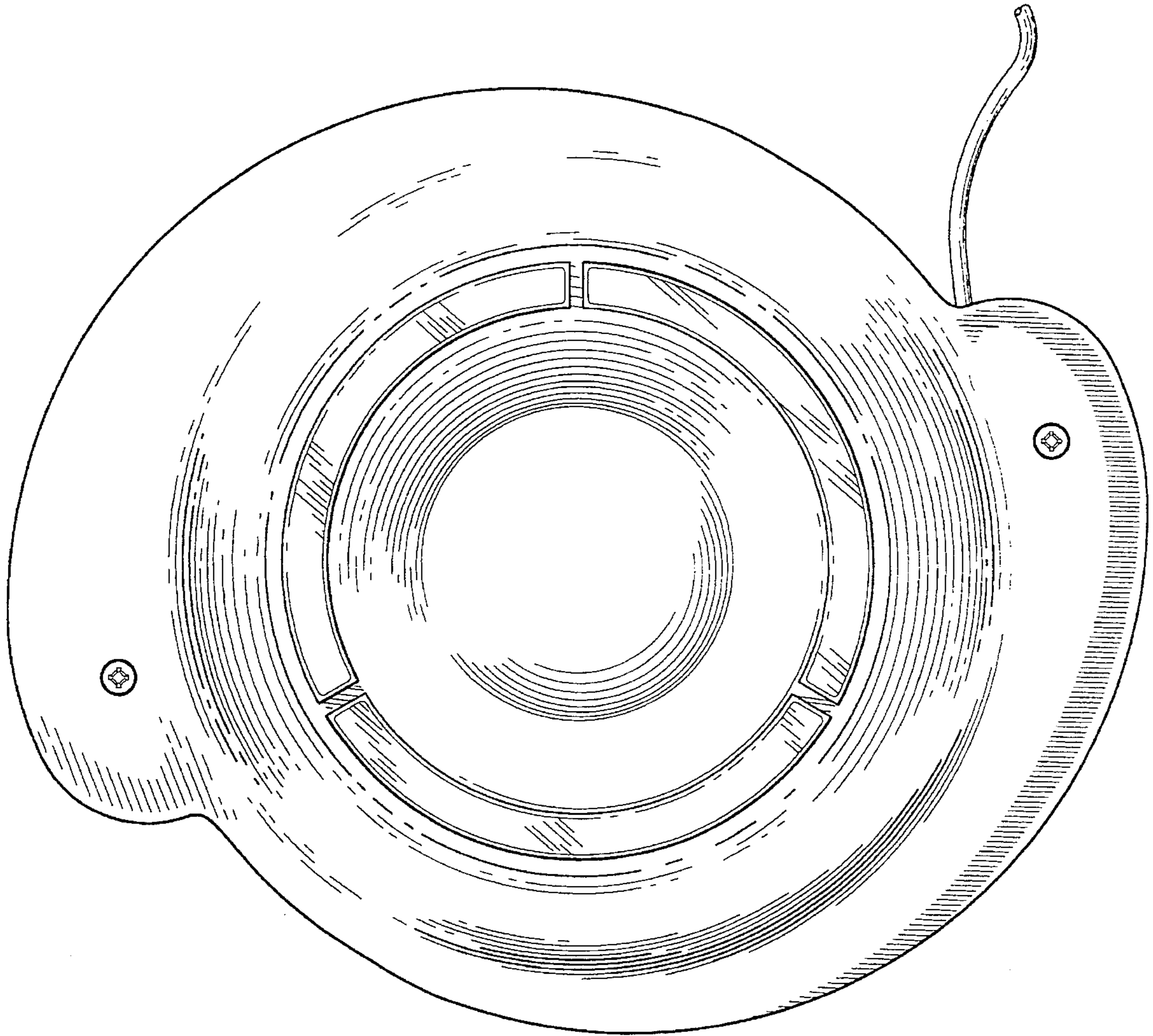


Fig. 7