



US00D453521S

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

(10) **Patent No.:** **US D453,521 S**

(45) **Date of Patent:** **** Feb. 12, 2002**

(54) **PRE-RECORDED OPTICAL DISK**

5,646,920 A * 7/1997 Raczynski 369/14 X

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OTHER PUBLICATIONS

MacWarehouse, p. 44, 1994.*

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* cited by examiner

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

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(21) Appl. No.: **29/058,031**

(57) **CLAIM**

(22) Filed: **Aug. 6, 1996**

The ornamental design for a pre-recorded optical disk, as shown and described.

(51) **LOC (7) Cl.** **14-99**

DESCRIPTION

(52) **U.S. Cl.** **D14/478**

(58) **Field of Search** D14/121, 136,
D14/135, 114, 217, 299, 474, 478; 369/14,
15, 273, 274, 275.1–275.5, 280.1–280.7,
282, 287, 288

FIG. 1 is a front side view of a pre-recorded optical disk showing our new design;

FIG. 2 is a front and edge perspective view of the disk of FIG. 1;

FIG. 3 is an edge view of the disk of FIG. 1;

FIG. 4 is a rear side view of the disk of FIG. 1; and,

FIG. 5 is a rear and edge perspective view of the disk of FIG. 1.

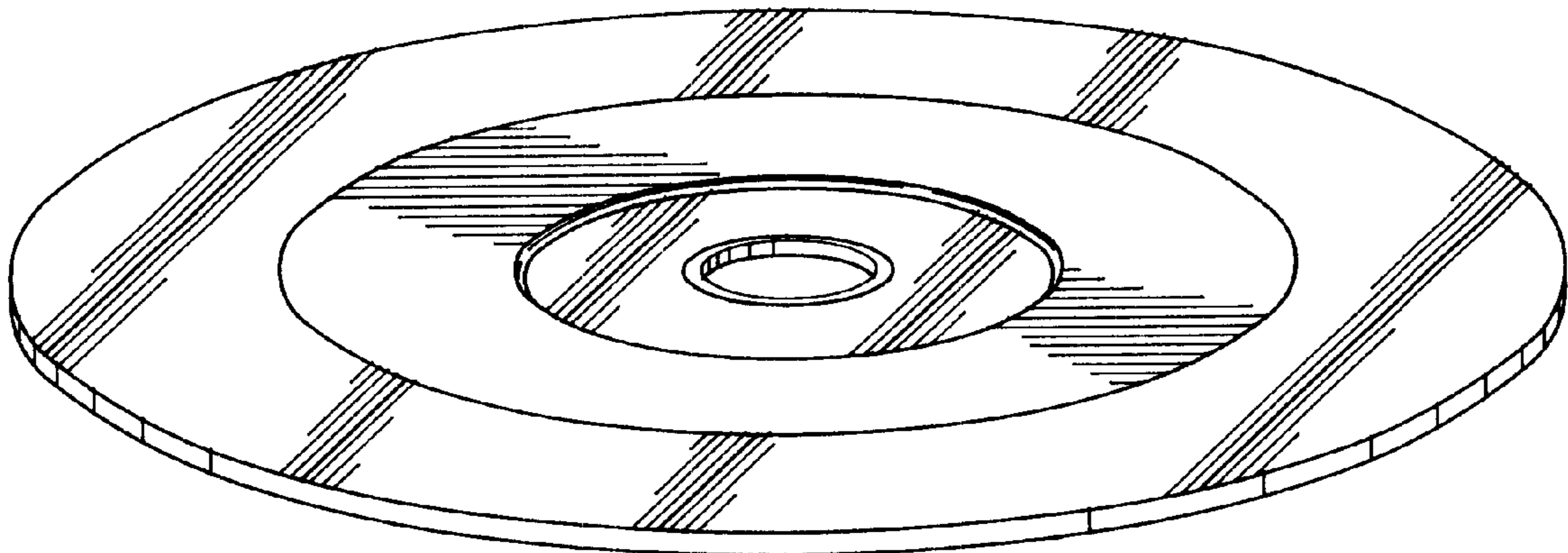
(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,747,093 A * 5/1988 Benne et al. 369/280
- 4,881,218 A 11/1989 Yamamori
- D316,088 S 4/1991 Yamamori
- D325,468 S * 4/1992 Ohba D14/121
- 5,323,380 A * 6/1994 Oda et al. 369/275.1
- D354,523 S * 1/1995 Hiraoka et al. D14/136 X
- 5,450,379 A 9/1995 Fujimori et al.
- 5,526,341 A * 6/1996 Shiba et al. 369/275.1
- 5,617,380 A * 4/1997 Holmstrom 369/275.1 X

A characteristic feature of the design of the optical disk as shown is that it differs from the appearance of conventional pre-recorded optical disks of the CD-Audio and CD-ROM format, principally in that metallized region of the disk stops well short of the outer diameter, to leave a relatively wide unmetallized outer annulus.

1 Claim, 2 Drawing Sheets



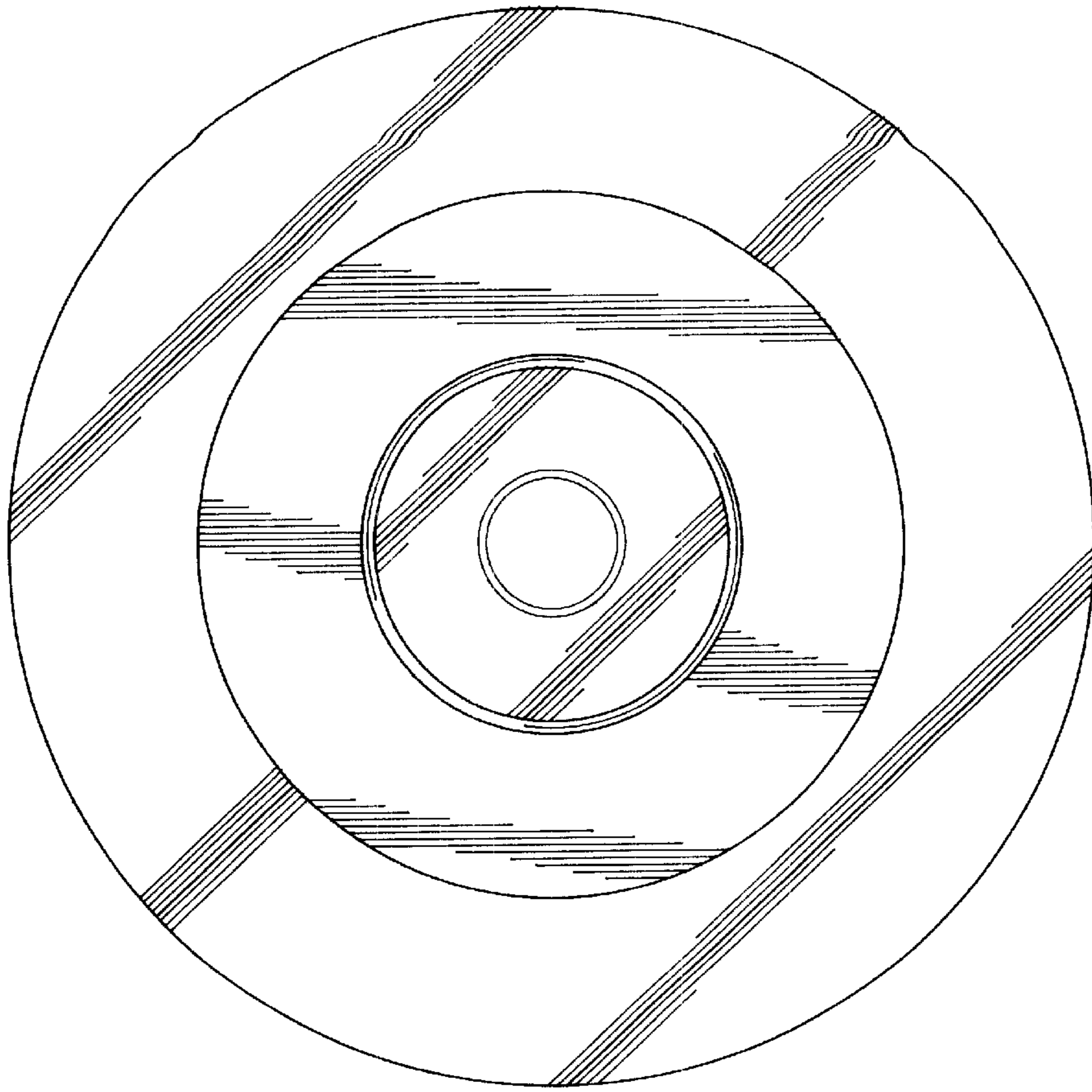


FIG. 1

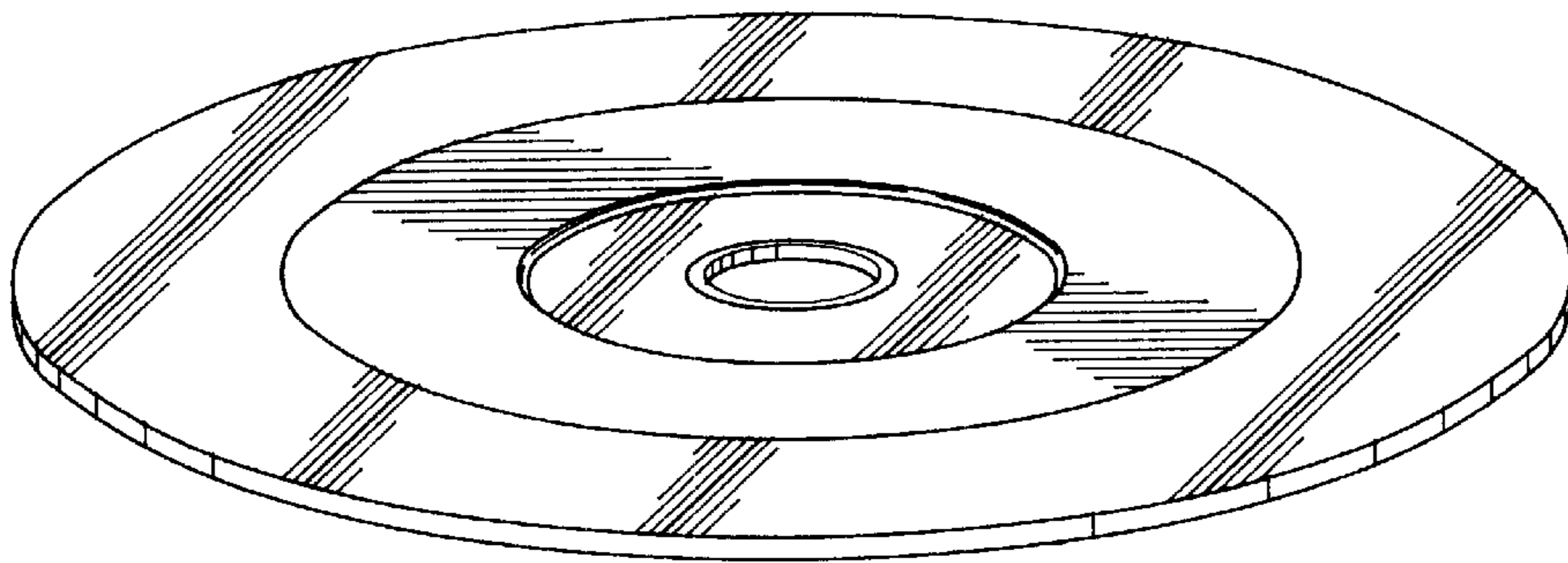


FIG. 2

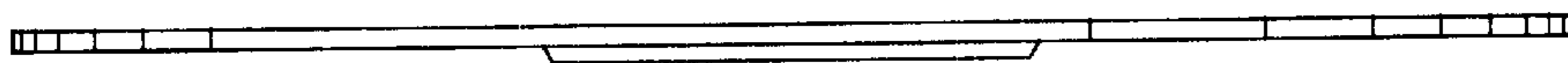


FIG. 3

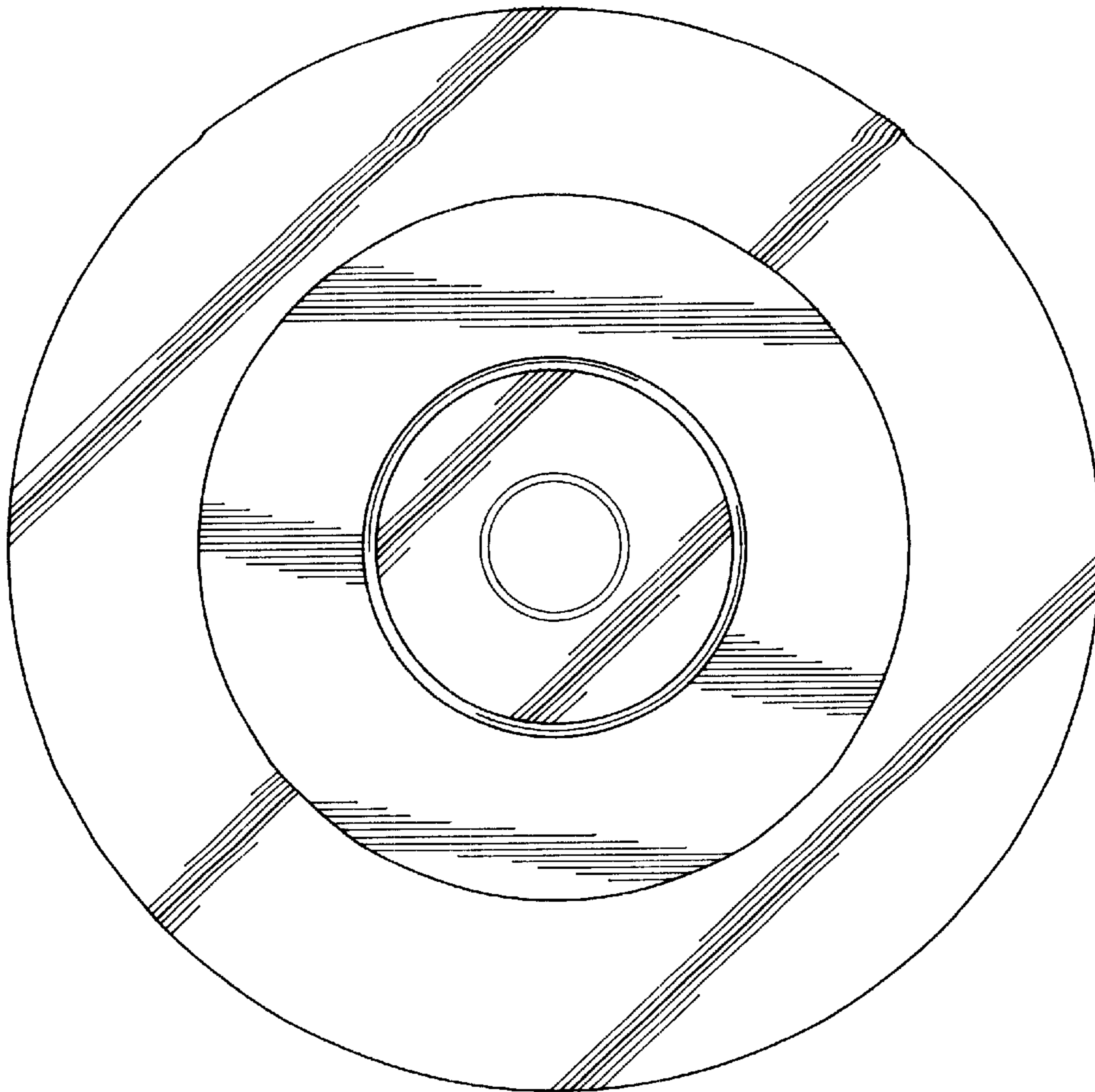


FIG. 4

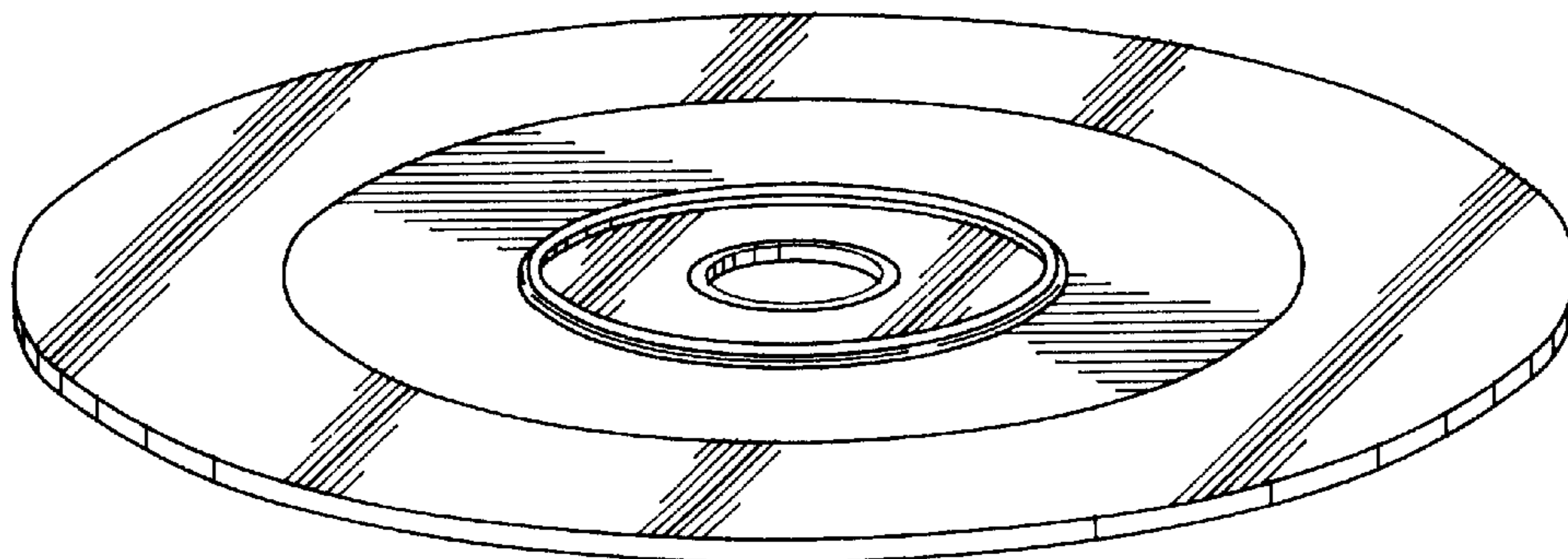


FIG. 5