



US00D624561S

(12) **United States Design Patent**
Yu

(10) **Patent No.:** **US D624,561 S**
(45) **Date of Patent:** **** Sep. 28, 2010**

(54) **PISTON AND SHOE ASSEMBLY FOR A
HYDRAULIC PISTON PUMP**

D540,349 S * 4/2007 Waki D15/9
D583,389 S * 12/2008 Bilger D15/7
D589,984 S * 4/2009 Roesler D15/7

(76) Inventor: **Li-Fu Yu**, 73, Bao-an St., Caotun Town,
Nantou County (TW)

* cited by examiner

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

Primary Examiner—Ralf Seifert
(74) *Attorney, Agent, or Firm*—Alan Kamrath; Kamrath &
Associates PA

(21) Appl. No.: **29/329,983**

(22) Filed: **Dec. 24, 2008**

(57) **CLAIM**

(51) **LOC (9) Cl.** **15-02**

The ornamental design for a piston and shoe assembly for a
hydraulic piston pump, as shown and described.

(52) **U.S. Cl.** **D15/7**

(58) **Field of Classification Search** D11/1-2,
D11/14, 26-29, 89-92, 44, 48, 81, 99; 63/26-28,
63/32; D3/207-212; D8/38; 70/456 B;
206/37.1; D16/200, 207, 210, 216
See application file for complete search history.

DESCRIPTION

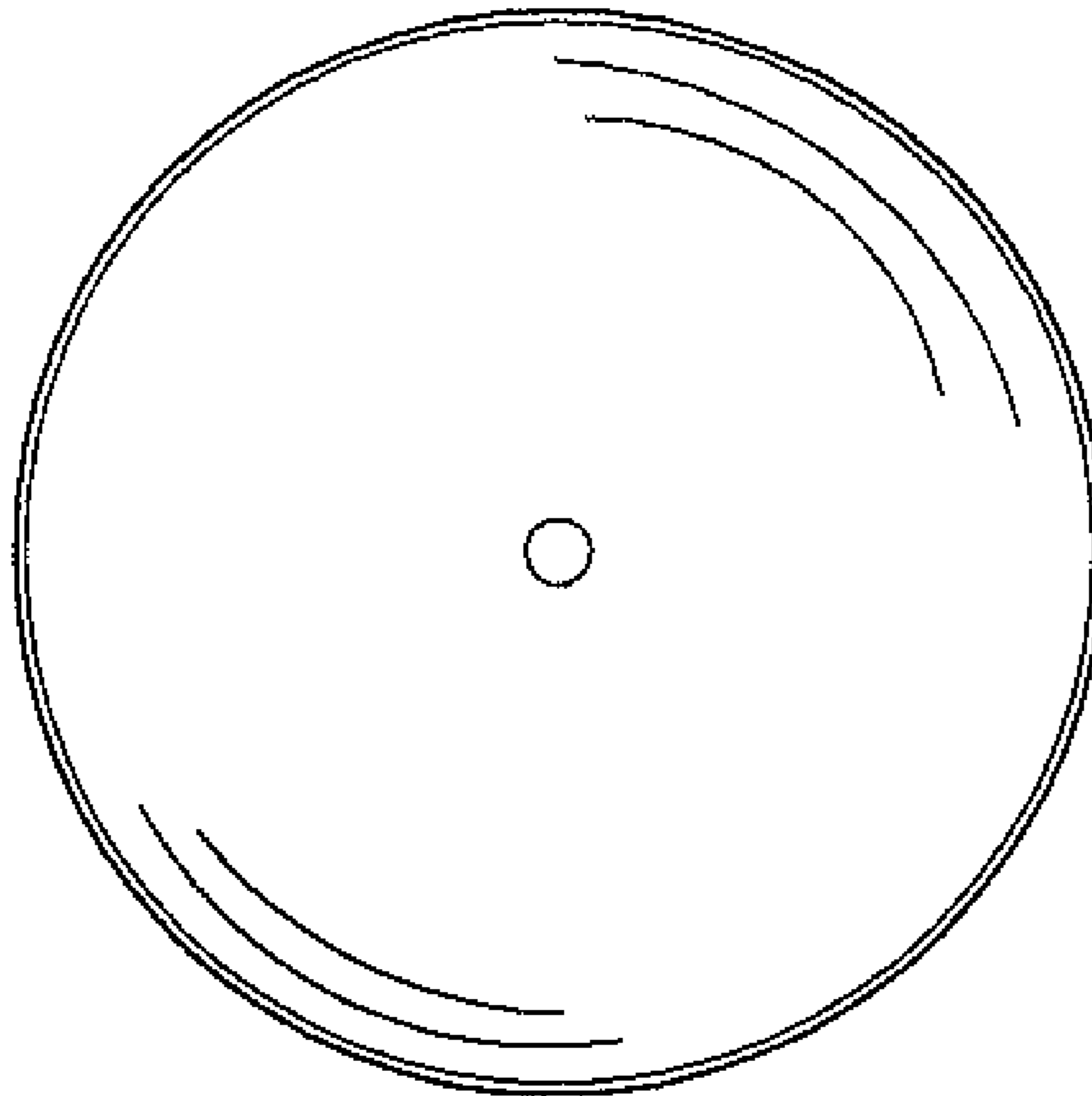
FIG. 1 is a perspective view of a piston and shoe assembly for
a hydraulic piston pump showing my design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side elevational view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,649,842 A * 8/1953 Caldwell et al. 92/52
D326,910 S * 6/1992 di Palma et al. D24/111
D371,562 S * 7/1996 Rushfeldt D15/7
D454,888 S * 3/2002 Tsunoda D15/9
D461,827 S * 8/2002 Koebbe D15/7
D472,558 S * 4/2003 MacPherson et al. D15/7

1 Claim, 7 Drawing Sheets



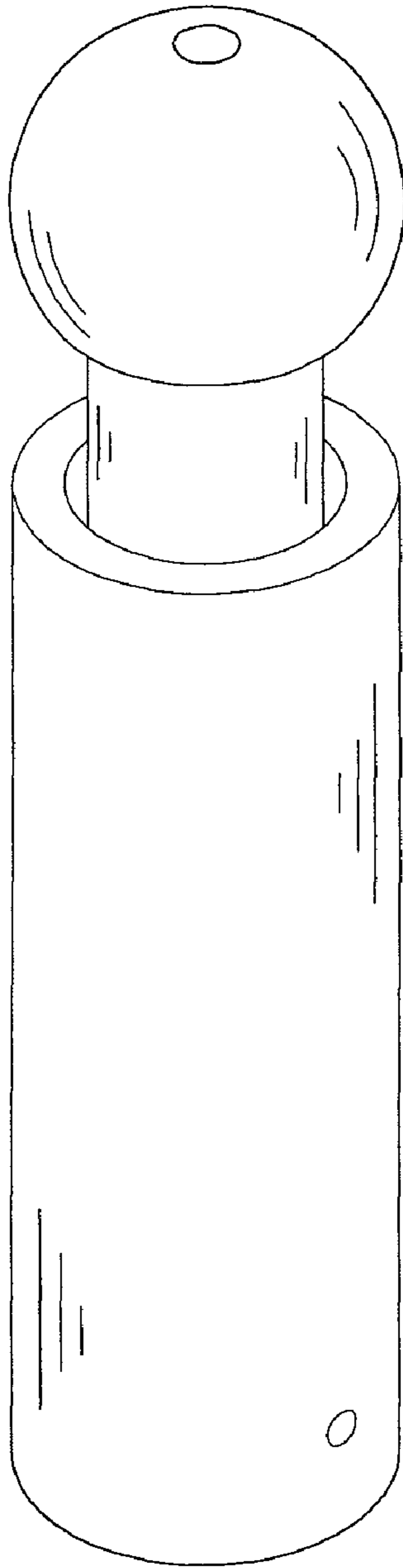


FIG. 1

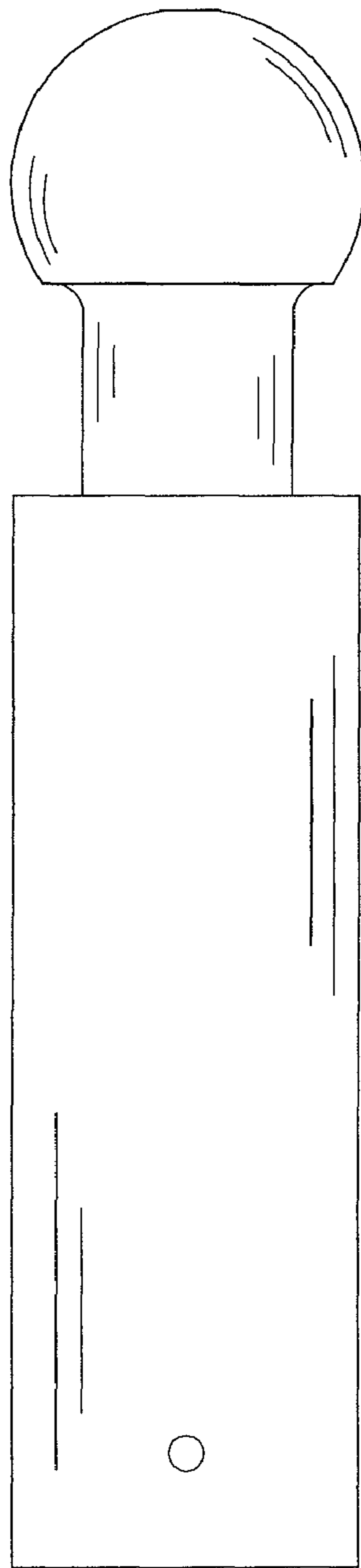


FIG. 2

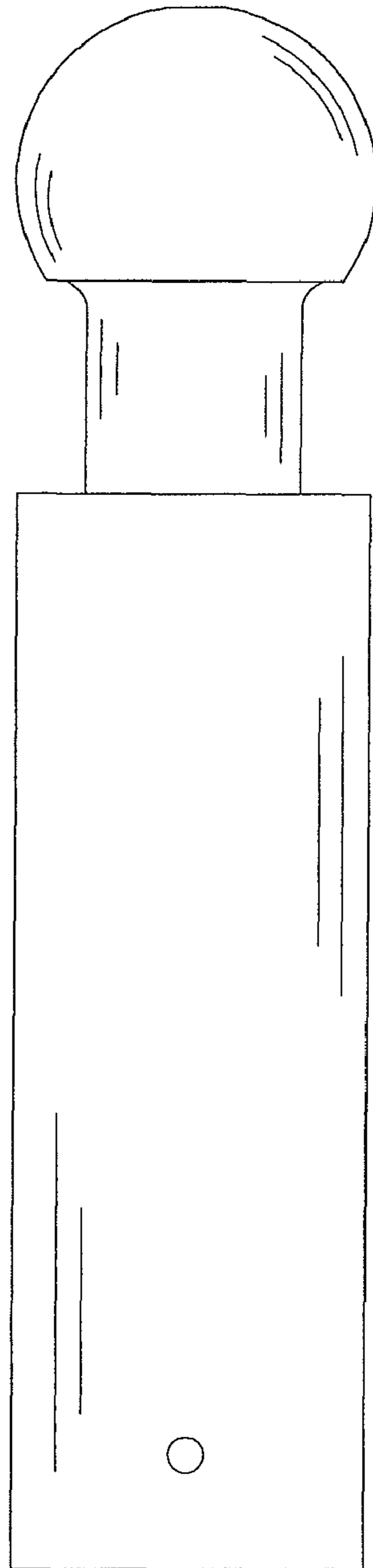


FIG. 3

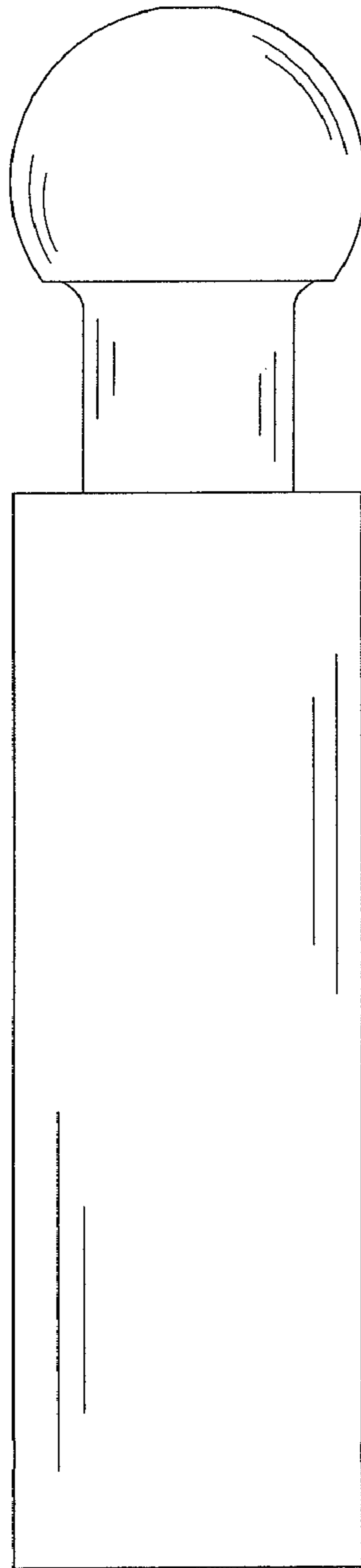


FIG. 4

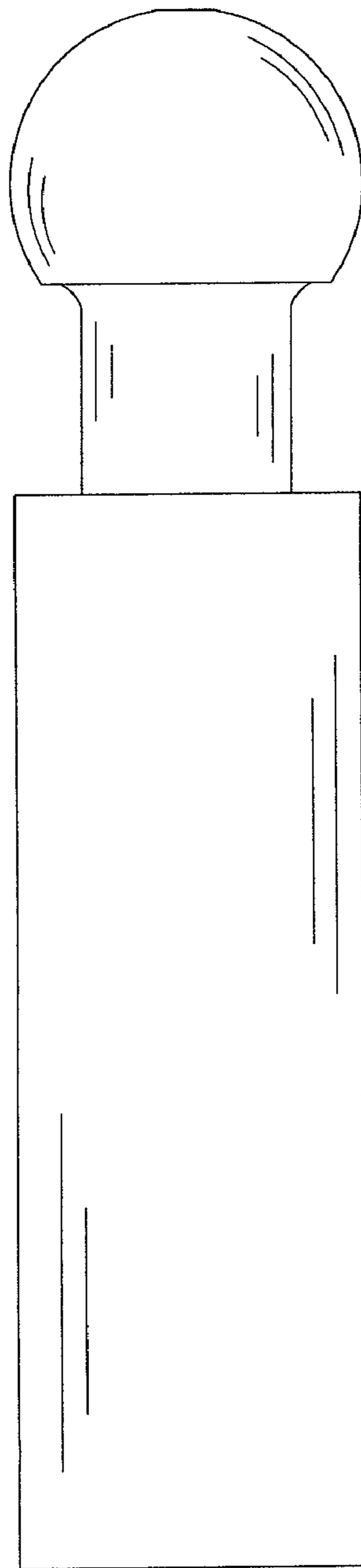


FIG. 5

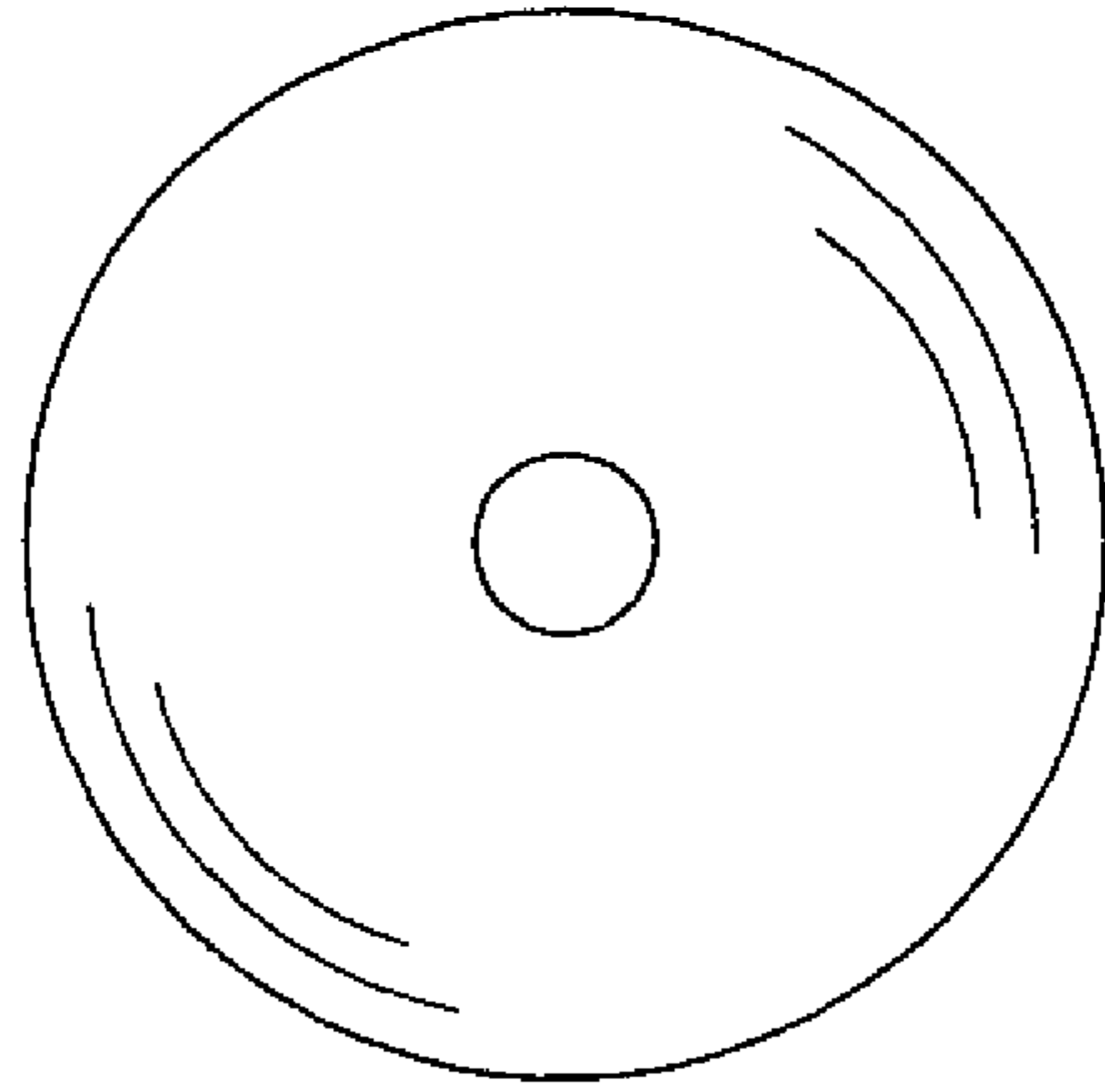


FIG. 6

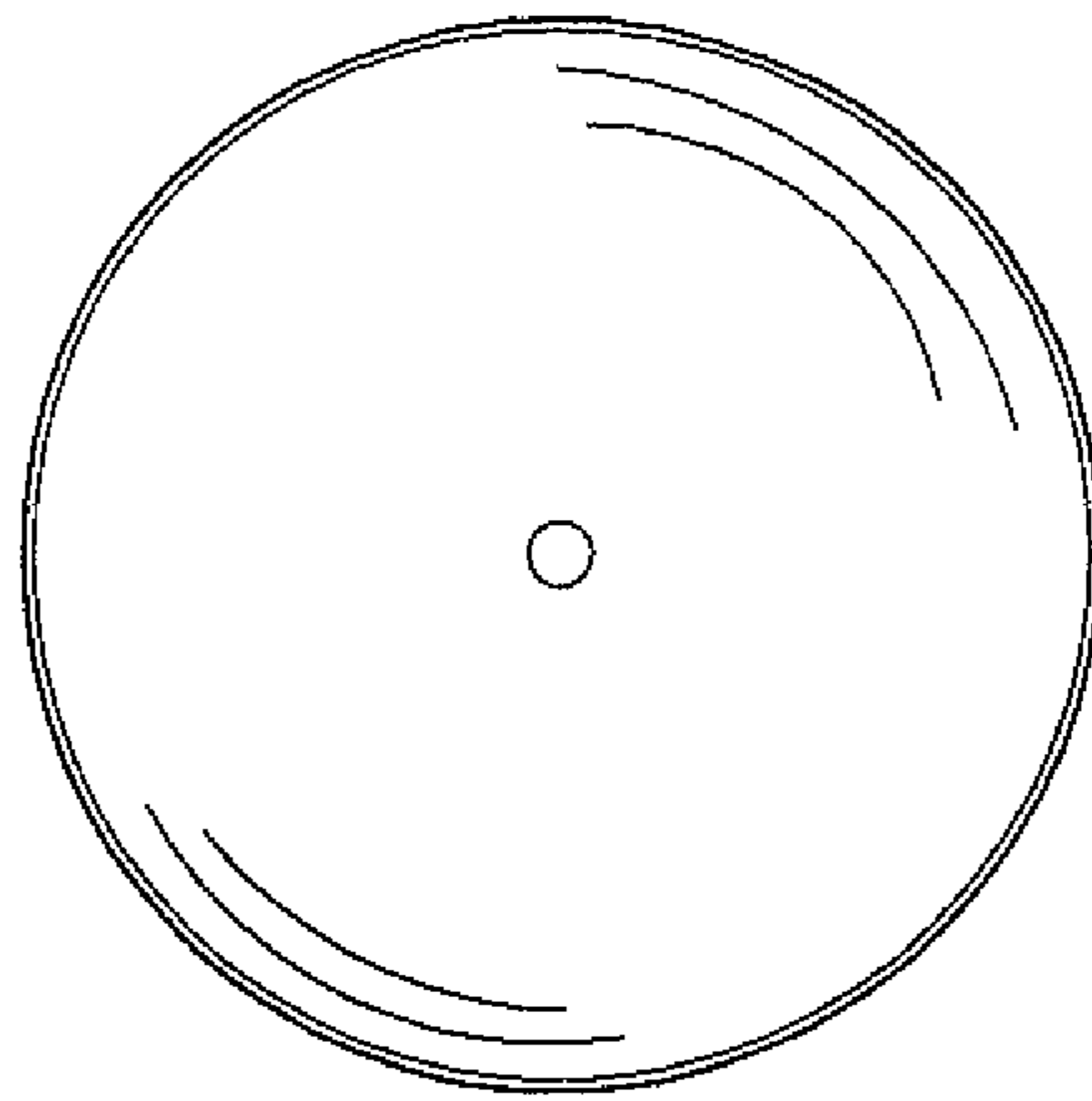


FIG. 7