



US00D515521S

(12) **United States Design Patent** (10) **Patent No.:** **US D515,521 S**  
**Stewart et al.** (45) **Date of Patent:** **\*\* Feb. 21, 2006**

(54) **EXTERIOR OF AN ELECTRIC MACHINE HOUSING**

(75) Inventors: **William P. Stewart**, Saint Peters, MO (US); **Donald J. Williams**, Pierron, IL (US)

(73) Assignee: **Emerson Electric Co.**, St. Louis, MO (US)

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

(21) Appl. No.: **29/214,510**

(22) Filed: **Oct. 4, 2004**

(51) **LOC (8) Cl.** ..... **13-03**

(52) **U.S. Cl.** ..... **D13/184**

(58) **Field of Classification Search** ..... D13/184;  
174/50, 52.1; 310/89; 361/600, 601, 679,  
361/724, 796

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,638,796	A	6/1997	Adams, III et al.	
5,861,689	A *	1/1999	Snider et al.	310/71
6,046,519	A *	4/2000	Hanazumi et al.	310/49 R
6,246,140	B1 *	6/2001	Horng	310/91
6,278,206	B1 *	8/2001	Yockey et al.	310/71
6,462,443	B1 *	10/2002	Horng	310/68 B
6,465,921	B1 *	10/2002	Horng et al.	310/81
6,507,494	B1 *	1/2003	Hutchison et al.	361/704
6,651,633	B1	11/2003	Jones	
2002/0167237	A1 *	11/2002	Horng et al.	310/81
2003/0117030	A1 *	6/2003	Agnes et al.	310/89
2004/0012285	A1 *	1/2004	Buening et al.	310/89
2004/0169429	A1 *	9/2004	Howe et al.	310/89

**OTHER PUBLICATIONS**

Design of a High Speed Switched Reluctance Machine for Automotive Turbo-Generator Applications; S.D. Calverly, et al; University of Sheffield; SAE Technical Paper Series 1999-01-2933; Aug. 17-19, 1999, pp. 1-10.

Aerodynamic Losses in Switched Reluctance Machines; S.D. Calverly, et al; IEE Proc.-Electr. Power Appl., vol. 147, No. 6, Nov. 2000; pp. 443-448.

Visteon Partners in Technology; European Automotive Design; Oct. 2002; pp. 30-43.

U.S. Appl. No. 10/958,196 for Apparatus and Methods of Retaining a Stator Within a Housing of an Electric Machine filed Oct. 4, 2004, Stewart.

U.S. Appl. No. 10/958,198 for Electric Machines and Methods Related to Assembling Electric Machines, filed Oct. 4, 2004, Stewart et al.

U.S. Appl. No. 10/958,199 for Bearing Systems for Electric Machines, filed Oct. 4, 2004, Stewart et al.

U.S. Appl. No. 10/958,213 for Electric Machines and Methods Related to Assembling Electrical Machines, filed Oct. 4, 2004, Stewart et al.

U.S. Appl. No. 10/958,214 for Electric Machine with Power and Control Electronics Integrated into the Primary Machine Housing, filed Oct. 4, 2004, Stewart et al.

U.S. Appl. No. 10/958,215 for Stator End Caps and Methods for Positioning the Lead and Exit Ends of the Stator Windings, filed Oct. 4, 2004, Stewart et al.

\* cited by examiner

*Primary Examiner*—Stella Reid

*Assistant Examiner*—Selina Sikder

(74) *Attorney, Agent, or Firm*—Harness, Dickey & Pierce, P.L.C.

(57) **CLAIM**

The ornamental design for an exterior of an electric machine housing, as shown and described.

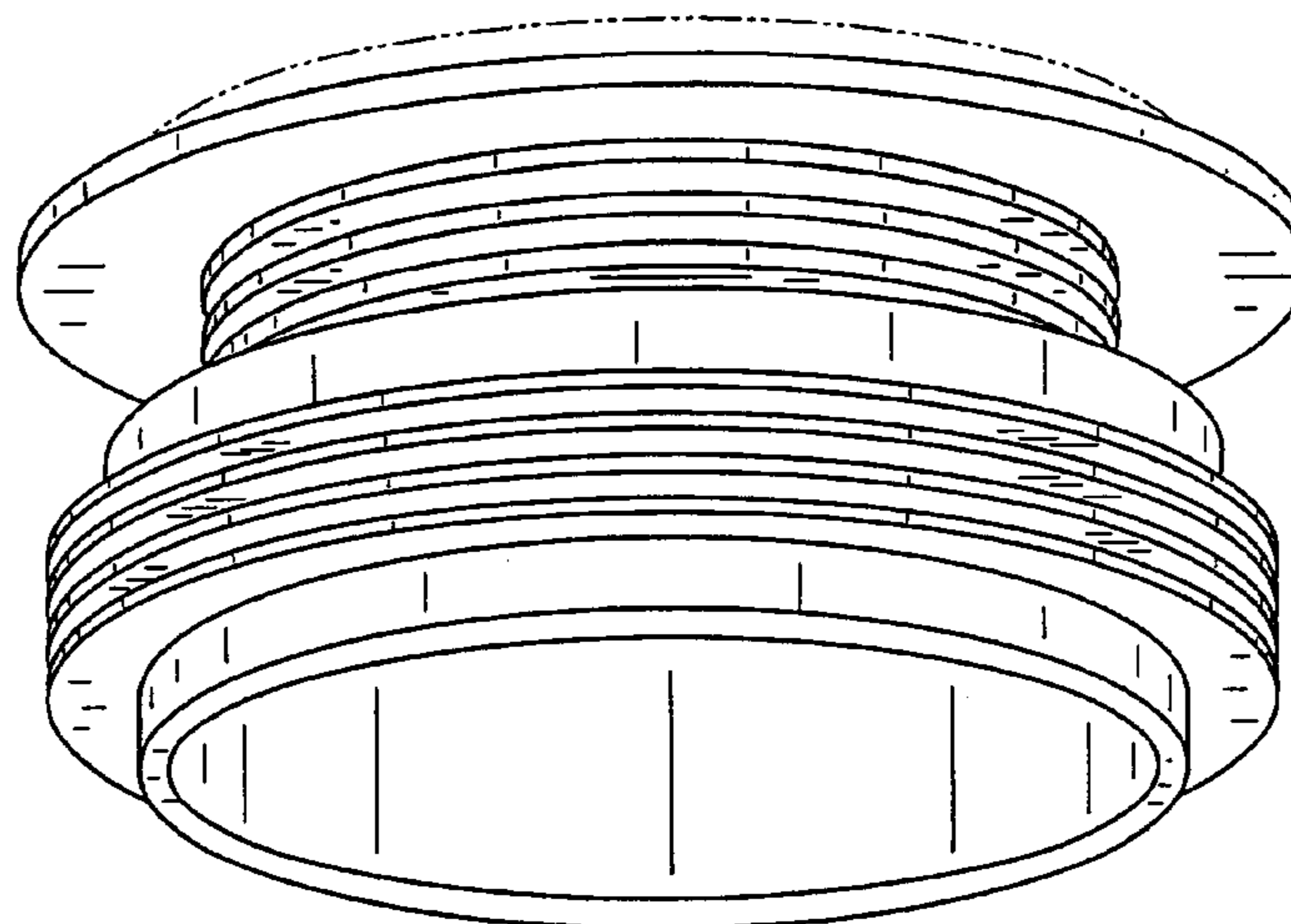
**DESCRIPTION**

FIG. 1 is a perspective view of the exterior of an electric machine housing; and,

FIG. 2 is an elevation view thereof.

The details shown in broken lines are for illustrative purposes only and form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**



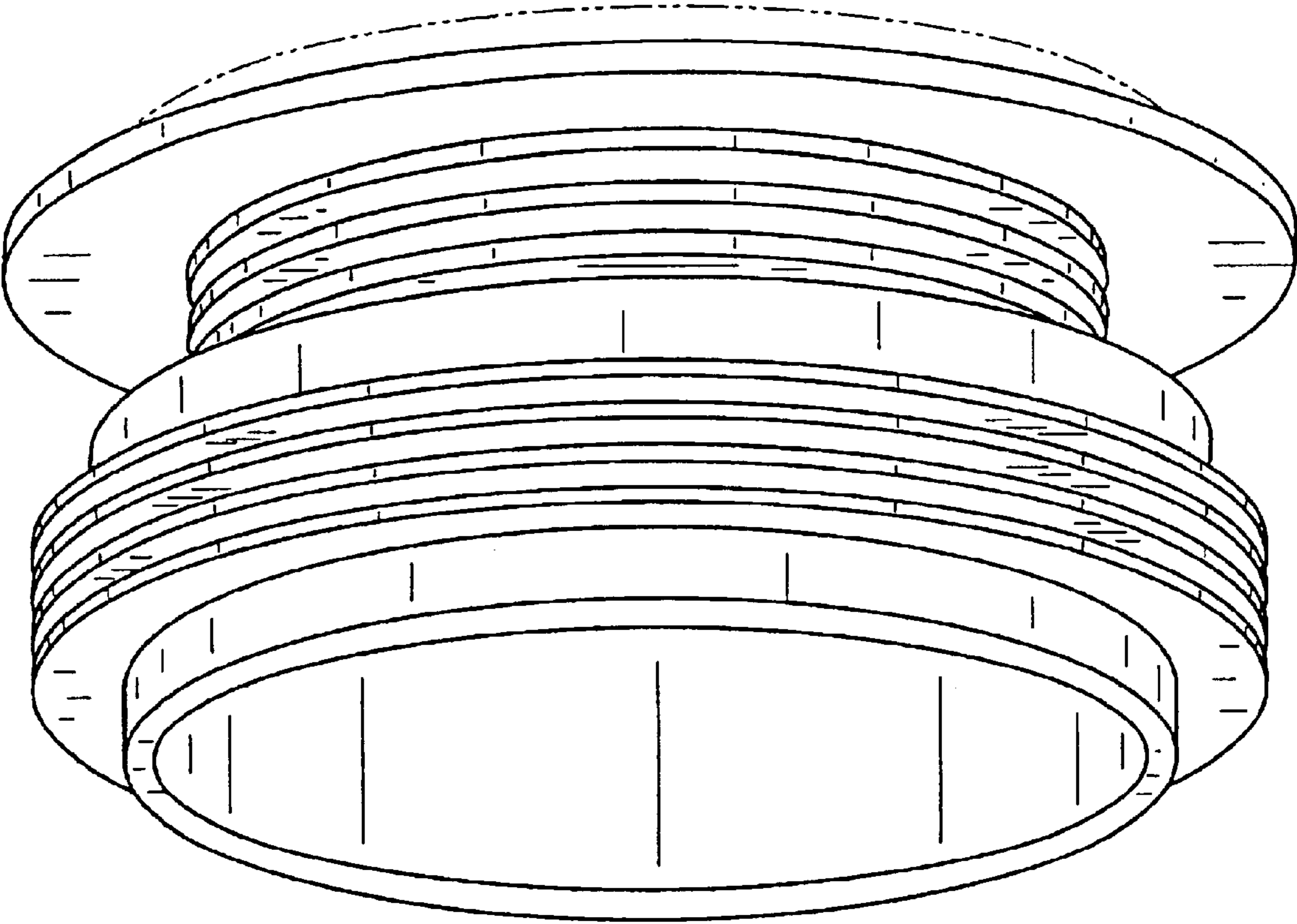


FIG. 1

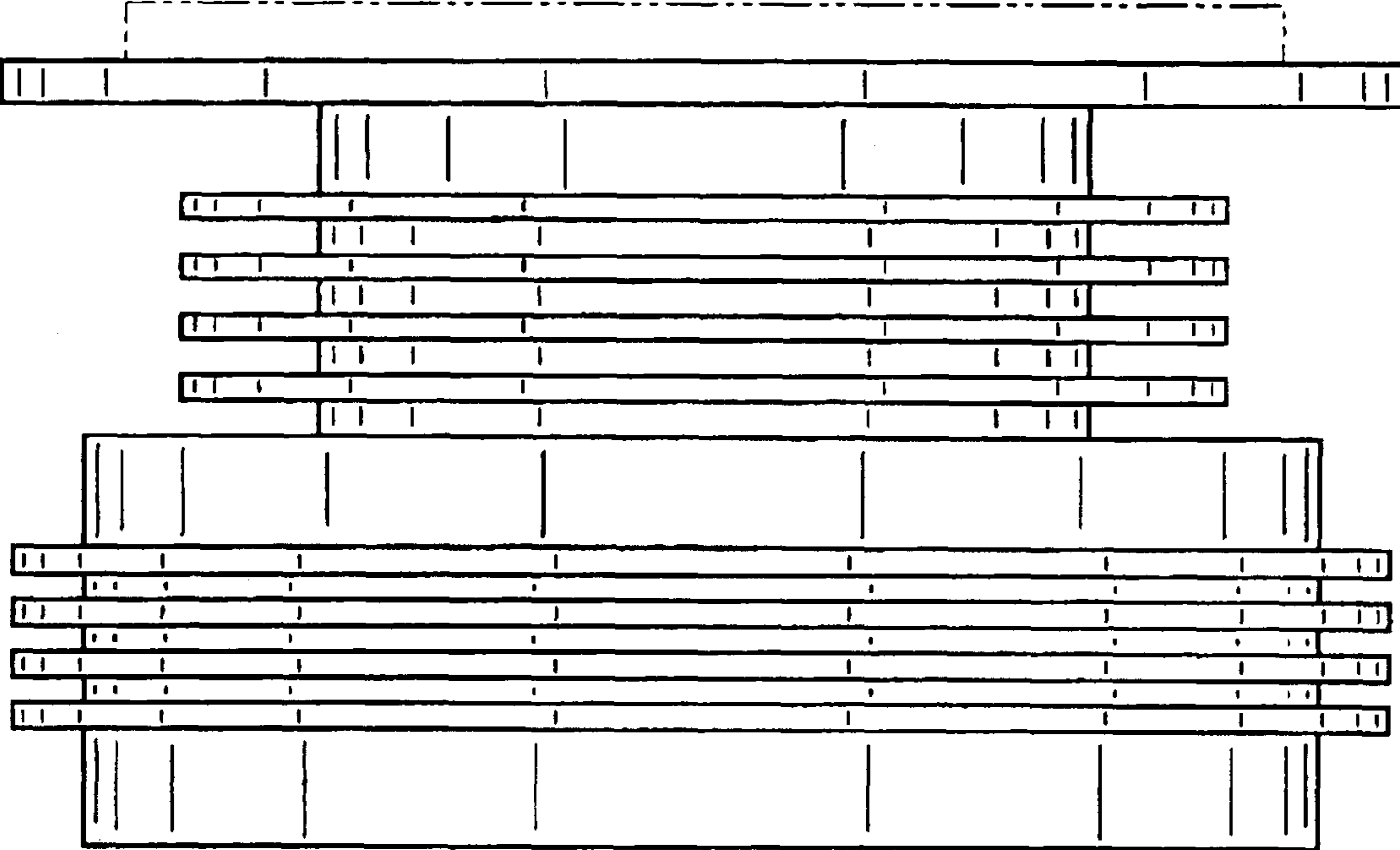


FIG. 2