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

(10) **Patent No.: US D488,861 S**

(45) **Date of Patent: \*\* Apr. 20, 2004**

- (54) **FAN BLADE CAGE**
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- (73) Assignee: **Lakewood Engineering and Manufacturing Co.**, Chicago, IL (US)
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/162,936**
- (22) Filed: **Jun. 24, 2002**

D359,116 S 6/1995 Marvin et al.  
D369,403 S 4/1996 Reveal et al.

(List continued on next page.)

**Related U.S. Application Data**

- (62) Division of application No. 29/146,595, filed on Aug. 10, 2001, now Pat. No. Des. 459,468.
- (51) **LOC (7) Cl.** ..... **23-04**
- (52) **U.S. Cl.** ..... **D23/412**
- (58) **Field of Search** ..... D23/411, 412, D23/381, 382, 378; 416/246, 247 R; 248/676

**OTHER PUBLICATIONS**

U.S. Trademark Reg. No. 1,697,509; Registered Jun. 30, 1993; Owner: Vornado Air Circulation Systems, Inc. for: Electric Fans in Class 11.  
 Product Catalog entitled "Fans", Lakewood Engineering & Mfg. Co., (20 pages), 11/98.  
 Product Catalog entitled "Fans", Lakewood Engineering & Mfg. Co., (20 pages) 1/01.  
 Product Literature of Lasko Air Circulators Fans (2 pages).  
 Product Catalog entitled, "Portable Air Circulators", Lasko Metal Products, 2/98.  
 Product Literature of a Holmes Convertible and Oscillating Fans, 15 pages (two-sided).  
 Product Literature of Cyclone Fans (8 pages).  
 Product Catalog entitled, "Restoration Hardware", Restoration Hardware, Fall, 2000, p. 38.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- |             |          |                 |               |
|-------------|----------|-----------------|---------------|
| 2,100,994 A | 11/1937  | Cohen           |               |
| 2,154,313 A | 4/1939   | McMahan         |               |
| D142,260 S  | 8/1945   | Lee             |               |
| D159,692 S  | * 8/1950 | Steinhart       | ..... D23/382 |
| 2,554,602 A | 5/1951   | Sutton          |               |
| 2,652,974 A | 9/1953   | Pettel          |               |
| 2,805,820 A | 9/1957   | Evarts          |               |
| 3,173,478 A | 3/1965   | Maycen          |               |
| 3,446,429 A | 5/1969   | Suzuki et al.   |               |
| 4,120,615 A | 10/1978  | Keem et al.     |               |
| 4,486,144 A | 12/1984  | Hung            |               |
| 4,838,151 A | 6/1989   | Shin-Chin       |               |
| 4,872,399 A | 10/1989  | Chaney          |               |
| D312,124 S  | 11/1990  | Coup et al.     |               |
| 5,118,252 A | 6/1992   | Chaney          |               |
| D329,089 S  | 9/1992   | Coup et al.     |               |
| D336,512 S  | 6/1993   | Cunning         |               |
| D337,819 S  | 7/1993   | Cunning         |               |
| RE34,551 E  | 2/1994   | Coup et al.     |               |
| D346,019 S  | 4/1994   | Cheslock et al. |               |
| 5,342,175 A | 8/1994   | Patton          |               |
| 5,382,136 A | 1/1995   | Wang            |               |

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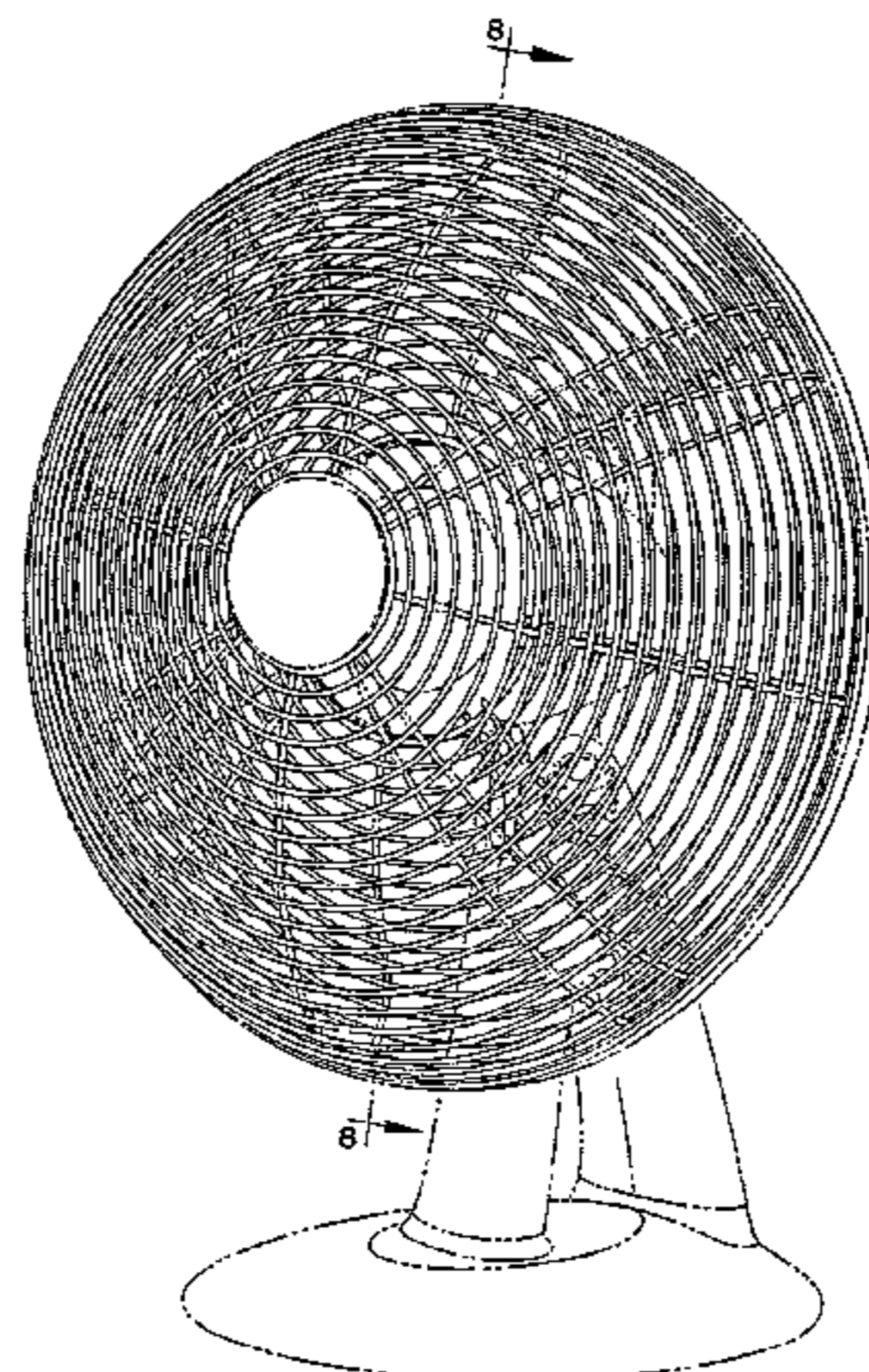
(57) **CLAIM**

The ornamental design for a fan blade cage, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of the fan blade cage.  
 FIG. 2 is a front elevational view of the fan blade cage.  
 FIG. 3 is a first side elevational view of the fan blade cage.  
 FIG. 4 is a rear elevational view of the fan blade cage.  
 FIG. 5 is a second side elevational view of the fan blade cage.  
 FIG. 6 is a top plan view of the fan blade cage.  
 FIG. 7 is a bottom plan view of the fan blade cage; and,  
 FIG. 8 is a cross-sectional view of the fan blade cage taken along line 8—8 in FIG. 1.  
 The broken line showing of environmental structure in FIGS. 1—8 is for illustrative purposes only and forms no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



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## U.S. PATENT DOCUMENTS

D376,005 S	11/1996	Litvin	D400,242 S	10/1998	Litvin
5,609,473 A	3/1997	Litvin	5,829,956 A	11/1998	Chen et al.
D387,152 S	12/1997	Jané et al.	D407,478 S	3/1999	Wilson, Jr.
D388,869 S	1/1998	Wang	D408,907 S	4/1999	Moreno
D389,235 S	1/1998	Jané et al.	D413,664 S	9/1999	Keller et al.
D391,357 S *	2/1998	Chi ..... D23/382	D416,619 S	11/1999	Ediger et al.
D391,631 S	3/1998	Litvin	D416,996 S	11/1999	Mack
D392,735 S	3/1998	Gonzales et al.	D418,218 S *	12/1999	Hsu ..... D23/412
5,730,651 A	3/1998	Chen et al.	6,015,265 A	1/2000	Lasko et al.
D395,080 S	6/1998	Jané et al.	D420,121 S	2/2000	Felix-Flender
D396,278 S	7/1998	Gonzales	6,183,204 B1	2/2001	Chang
D398,983 S	9/1998	Keller et al.	D451,190 S	11/2001	Chen et al.

\* cited by examiner

FIG. 1

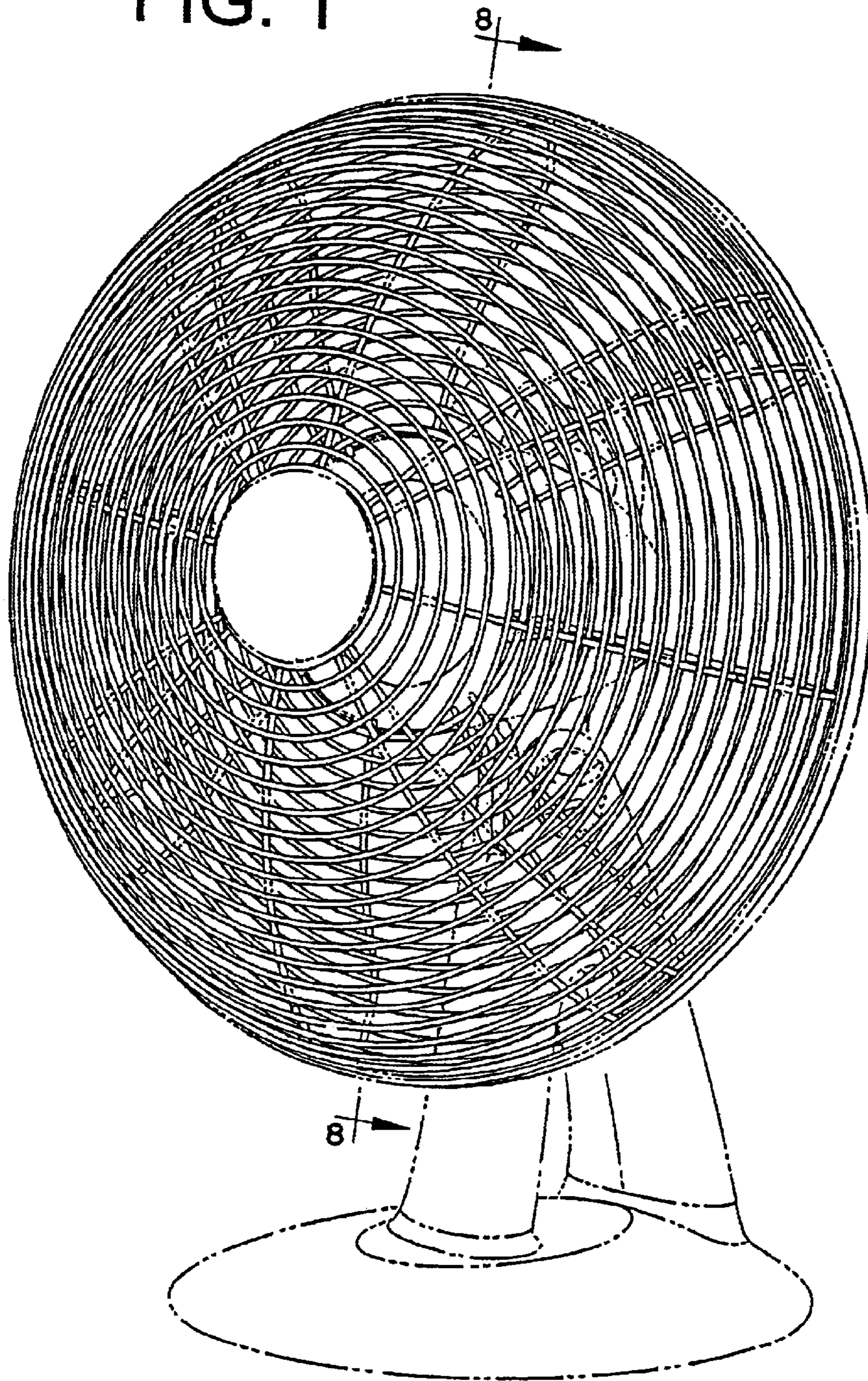


FIG. 2

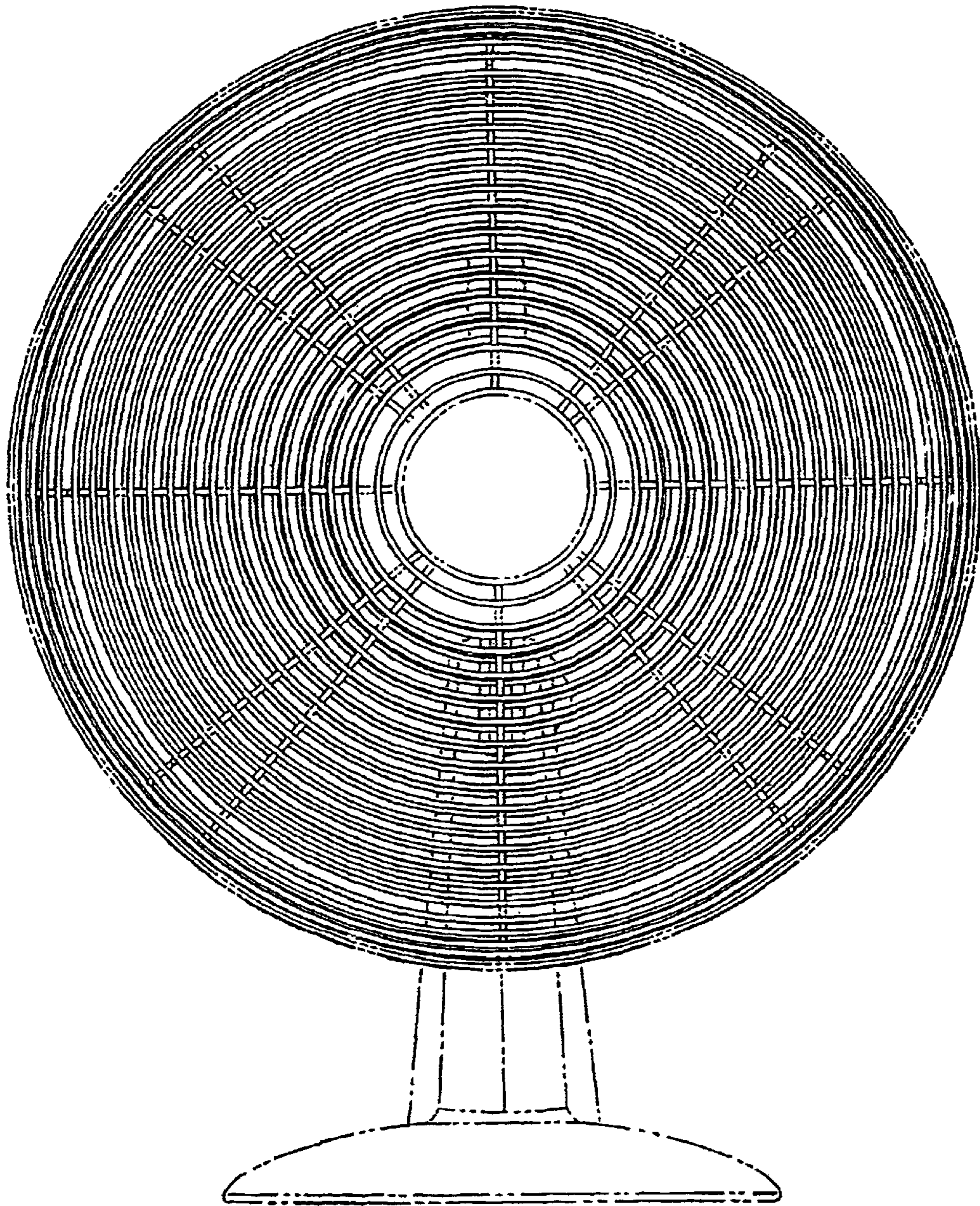


FIG. 3

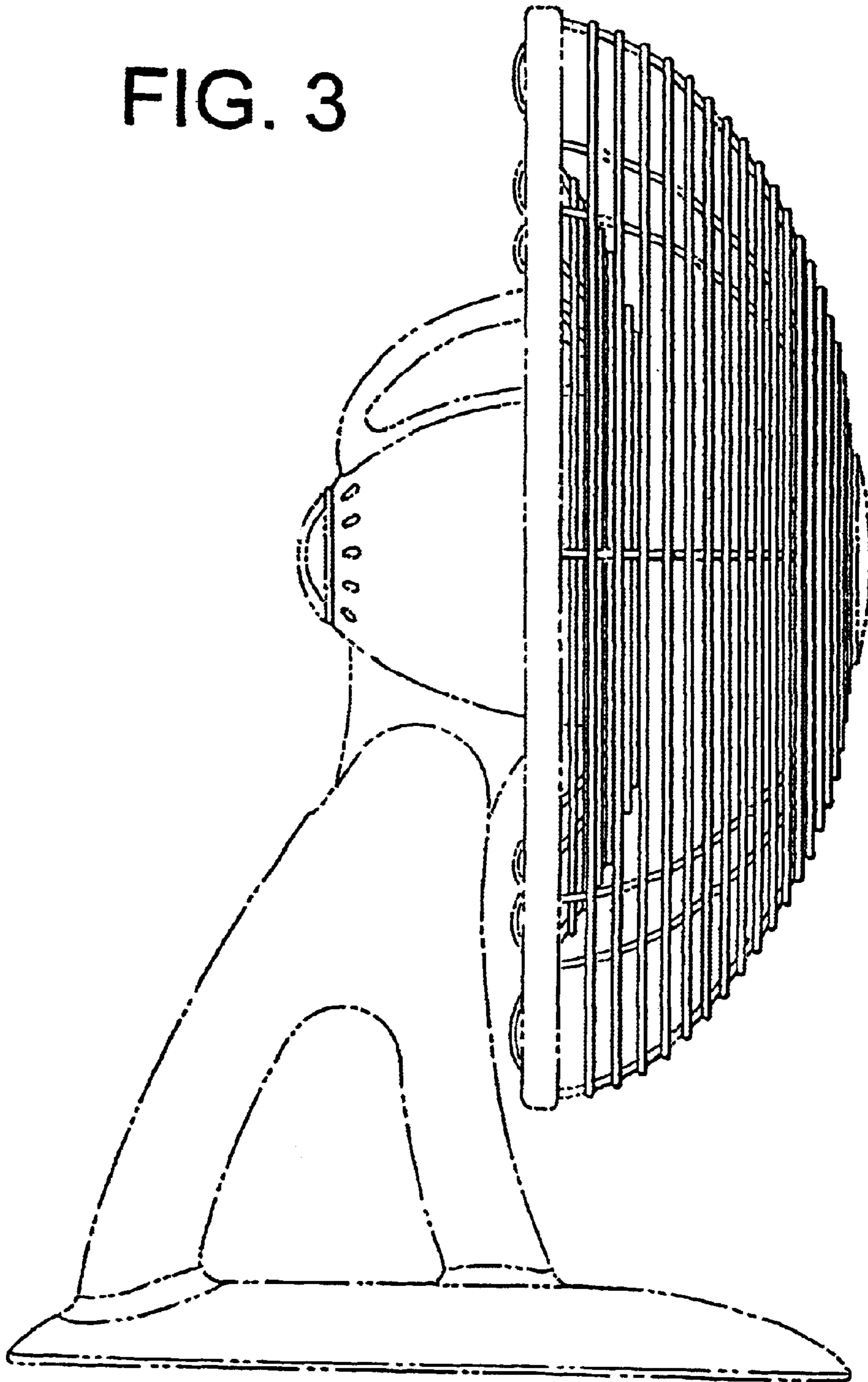


FIG. 4

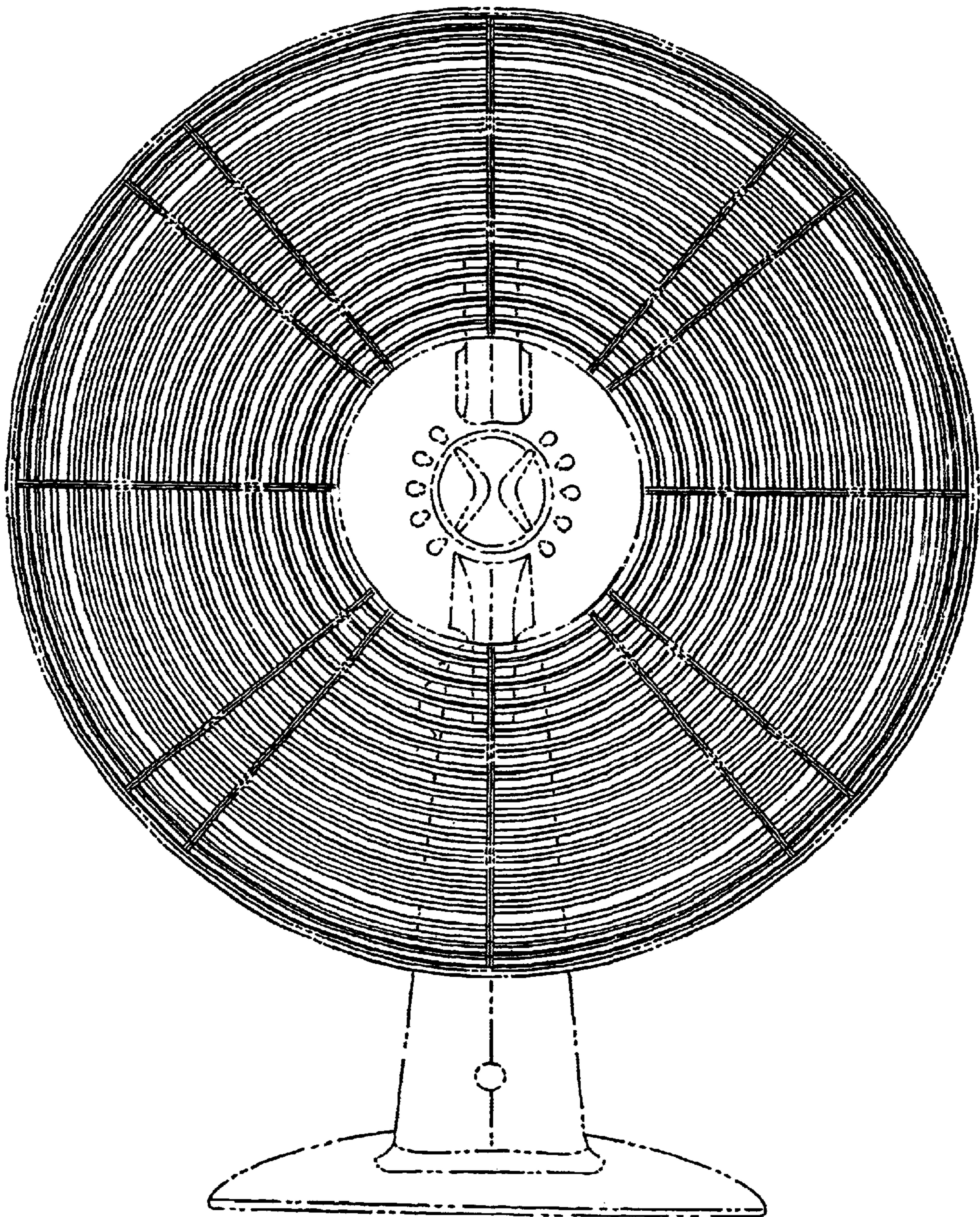


FIG. 5

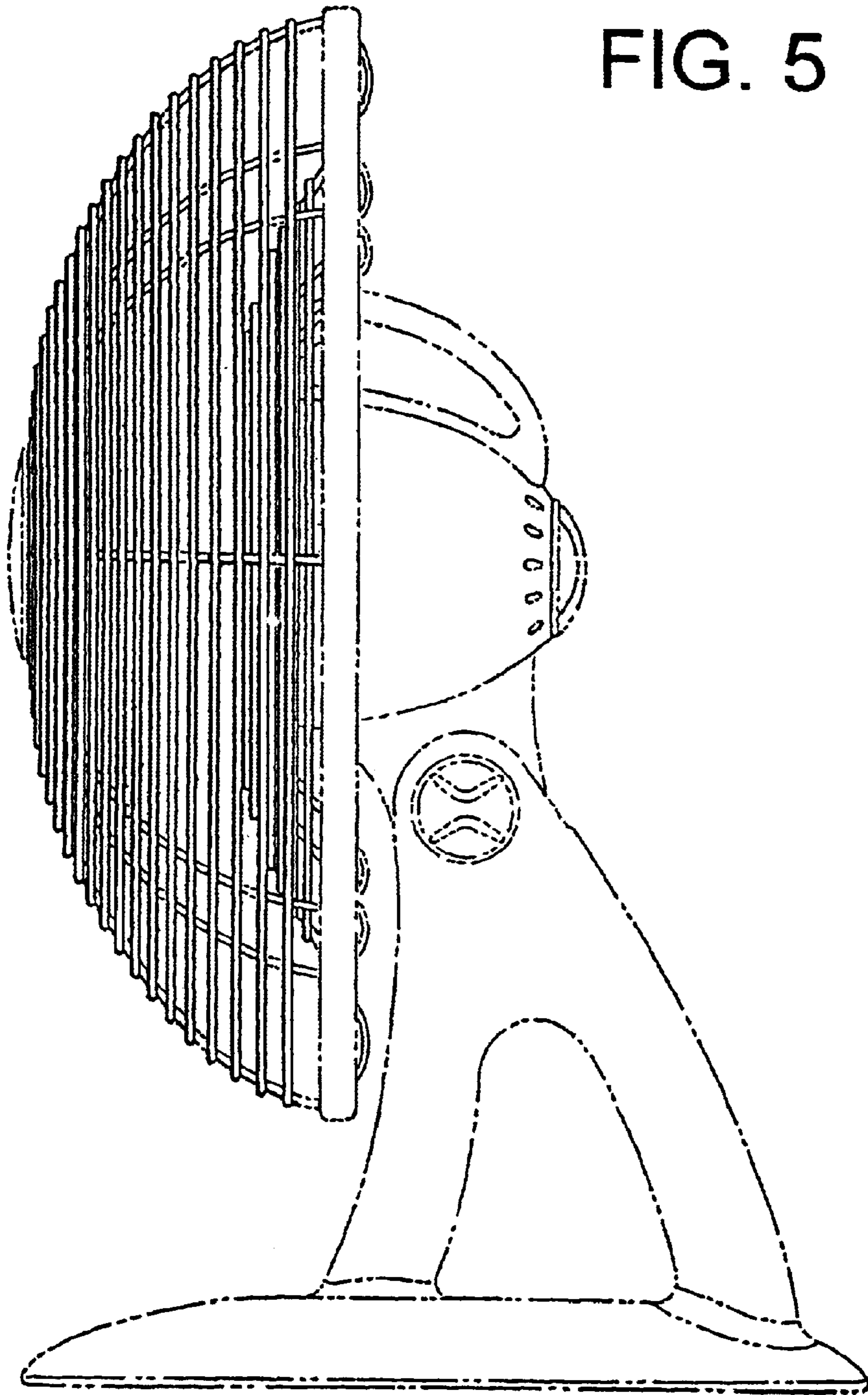


FIG.6

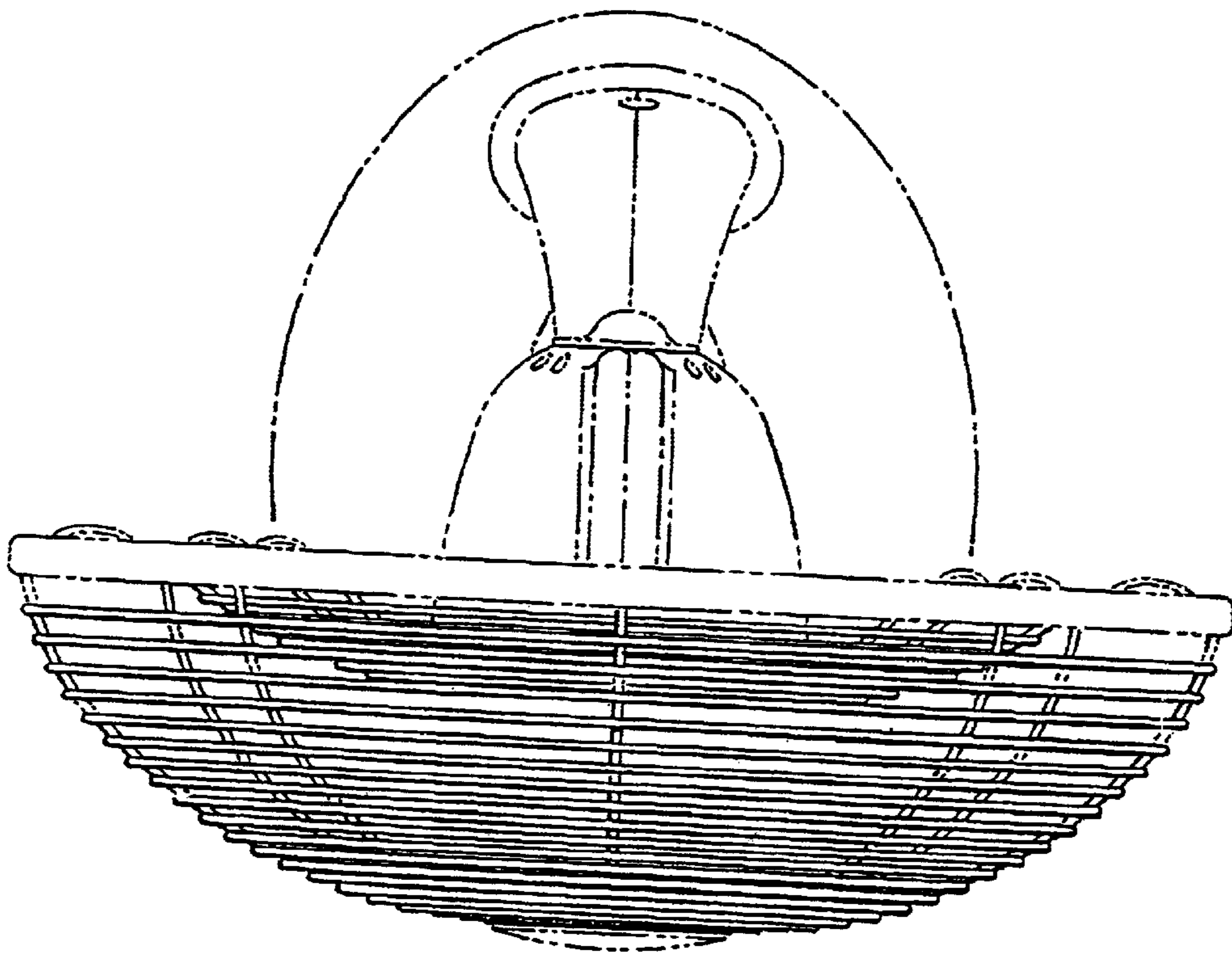




FIG. 7

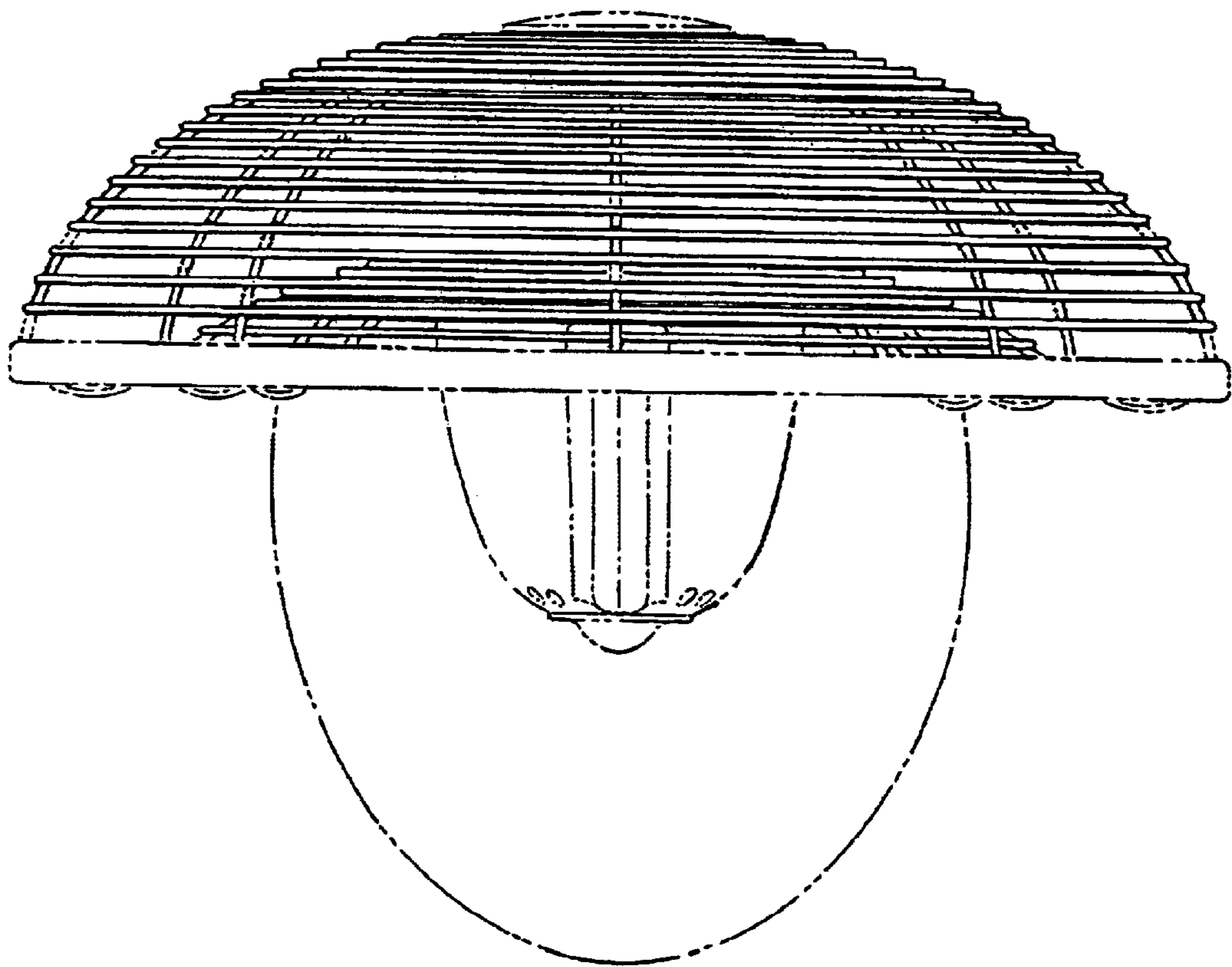


FIG. 8

