



US00D839415S

(12) **United States Design Patent** (10) **Patent No.:** **US D839,415 S**  
**Wohlfahrt et al.** (45) **Date of Patent:** **\*\* Jan. 29, 2019**

<p>(54) <b>AUTO-INJECTOR</b></p> <p>(71) Applicant: <b>Novartis AG</b>, Basel (CH)</p> <p>(72) Inventors: <b>Tobias Wohlfahrt</b>, München (DE); <b>Samuel Coendet</b>, München (DE); <b>Johannes Egger</b>, München (DE); <b>Gabriel Iobbi</b>, Basel (CH); <b>Alain Schmidlin</b>, Basel (CH); <b>Mads Sabra</b>, Basel (CH); <b>Agathe Buffard</b>, Basel (CH); <b>Muriel Didier</b>, Basel (CH); <b>Erich Studer</b>, Basel (CH); <b>Andrew Bryant</b>, Basel (CH)</p> <p>(73) Assignee: <b>Novartis AG</b>, Basel (CH)</p> <p>(**) Term: <b>15 Years</b></p> <p>(21) Appl. No.: <b>29/607,613</b></p> <p>(22) Filed: <b>Jun. 14, 2017</b></p> <p>(30) <b>Foreign Application Priority Data</b></p> <p>Dec. 15, 2016 (EM) ..... 003518943</p> <p>(51) <b>LOC (11) Cl.</b> ..... <b>24-02</b></p> <p>(52) <b>U.S. Cl.</b> USPC ..... <b>D24/112</b></p> <p>(58) <b>Field of Classification Search</b> USPC ..... D24/112-114, 133, 186, 104, 130, 127, D24/176, 108, 110, 220; 606/181, 185; 604/232, 187, 158, 164.08, 192, 263, 163, 604/181, 184, 198, 227, 168.01, 275, 604/890.1; D9/414, 424, 417, 426 CPC ..... A61M 2005/14252; A61M 2005/1581; A61M 5/14248; A61M 2005/14513; A61M 2005/206</p> <p>See application file for complete search history.</p> <p>(56) <b>References Cited</b> <b>U.S. PATENT DOCUMENTS</b></p> <p>D269,249 S 6/1983 Cillario D281,827 S 12/1985 Bakic</p>	<p>D496,585 S 9/2004 McBride et al. D507,968 S * 8/2005 Dixon ..... D9/422 7,455,663 B2 11/2008 Bikovsky D588,908 S 3/2009 Silvenis et al. D592,494 S 5/2009 Wichowski D602,155 S * 10/2009 Foley ..... D24/113 D602,586 S * 10/2009 Foley ..... D24/113 D612,042 S 3/2010 Noren D631,552 S 1/2011 Kasabach et al. D640,131 S 6/2011 Gibson et al. 8,157,769 B2 * 4/2012 Cabiri ..... A61M 5/14248 604/131 D664,298 S 7/2012 Grabes et al. 8,323,213 B2 * 12/2012 Kim ..... A61B 5/412 4/144.1 8,381,909 B2 2/2013 Hernandez et al. D683,844 S 6/2013 Andrade et al.</p>
--	--

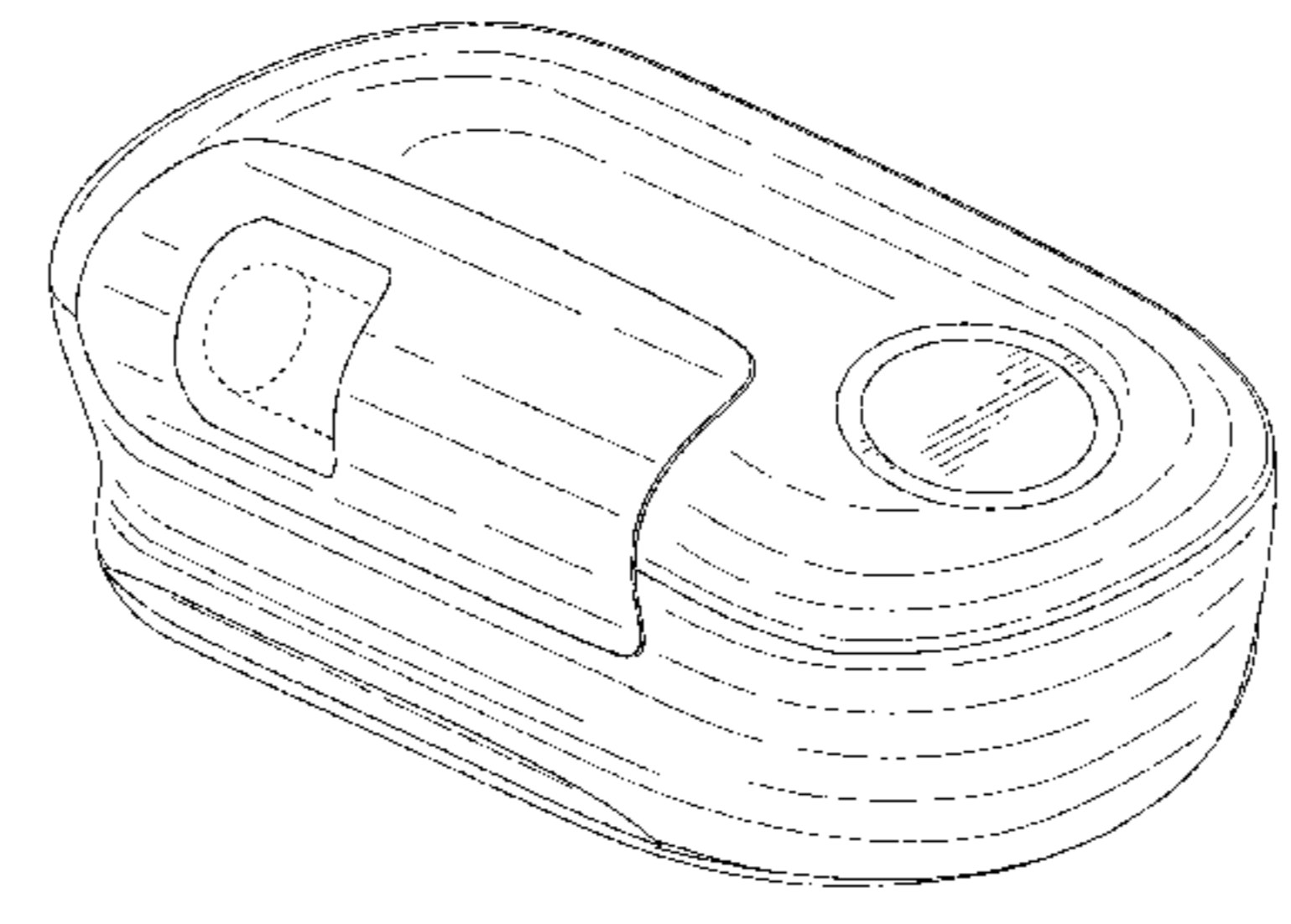
(Continued)

*Primary Examiner* — David G Muller  
*Assistant Examiner* — Nathan M Johnston  
(74) *Attorney, Agent, or Firm* — Mintz Levin Cohn Ferris Glovsky and Popeo, P.C.

(57) **CLAIM**  
The ornamental design for an auto-injector, as shown and described.

**DESCRIPTION**  
FIG. 1 is a top, left side, front perspective view of an auto-injector showing our new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a rear elevation view thereof;  
FIG. 4 is a left side elevation view thereof;  
FIG. 5 is a right side elevation view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.  
The dash-dash broken lines illustrate portions of the auto-injector that form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D685,083	S *	6/2013	Schneider .....	D24/108	2009/0216194	A1	8/2009	Elgard Pedersen et al.
D687,141	S *	7/2013	Schneider .....	D24/108	2010/0114026	A1 *	5/2010	Karratt ..... A61M 5/14248 604/151
D687,536	S *	8/2013	Guarraia .....	D24/108	2012/0078181	A1 *	3/2012	Smith ..... A61M 5/14216 604/152
D694,102	S	11/2013	Bellamah et al.		2014/0058349	A1 *	2/2014	Bazargan ..... A61M 5/1456 604/500
D699,855	S *	2/2014	Netzel .....	D24/188	2014/0207065	A1 *	7/2014	Yavorsky ..... A61M 5/14248 604/151
D733,288	S	6/2015	Althorpe et al.		2014/0213975	A1	7/2014	Clemente et al.
D744,109	S	11/2015	Yoneta et al.		2015/0051573	A1 *	2/2015	Tieck ..... A61M 5/14216 604/500
D744,110	S	11/2015	Kubo et al.		2015/0057613	A1 *	2/2015	Clemente ..... A61M 5/14566 604/148
D748,273	S *	1/2016	Chang .....	D24/186	2015/0250943	A1 *	9/2015	Momose ..... A61M 5/14276 604/151
D759,236	S *	6/2016	Preiss .....	D24/127	2015/0306307	A1 *	10/2015	Cole ..... A61M 5/14248 604/508
D760,374	S	6/2016	Nagar et al.		2016/0058941	A1 *	3/2016	Wu ..... A61M 5/145 604/136
D769,438	S *	10/2016	Crosby .....	D24/110	2016/0317738	A1 *	11/2016	Cross ..... A61M 5/1454
D774,640	S *	12/2016	Tyce .....	D24/113	2016/0369789	A1 *	12/2016	Alderete, Jr. .... F04B 19/22
D776,270	S	1/2017	Wilcox et al.		2017/0043101	A1	2/2017	Cole et al.
D776,873	S *	1/2017	Levi .....	D24/133	2017/0182243	A1 *	6/2017	Cole ..... A61M 5/158
9,707,335	B2 *	7/2017	Agard .....	A61M 5/14216	2017/0224910	A1 *	8/2017	Yodfat ..... A61M 5/1413
D794,770	S *	8/2017	Wu .....	D24/108	2017/0224915	A1 *	8/2017	Destefano ..... A61M 5/158
9,782,545	B2 *	10/2017	Gross .....	A61M 5/31596	2017/0281864	A1	10/2017	Searle et al.
D804,015	S *	11/2017	Lamba .....	D24/110	2017/0290975	A1 *	10/2017	Barmaimon ..... A61M 5/1454
D804,019	S *	11/2017	Costello .....	D24/113	2018/0021508	A1 *	1/2018	Destefano ..... A61M 5/14248
D804,042	S *	11/2017	Cohrs .....	D24/186				
D805,190	S	12/2017	Costello et al.					
D805,633	S	12/2017	Costello et al.					
D806,232	S *	12/2017	Hwang .....	D24/112				
D806,234	S *	12/2017	Costello .....	D24/113				
D806,880	S	1/2018	Henning					
2008/0281270	A1 *	11/2008	Cross .....	A61M 5/1413 604/122				

\* cited by examiner

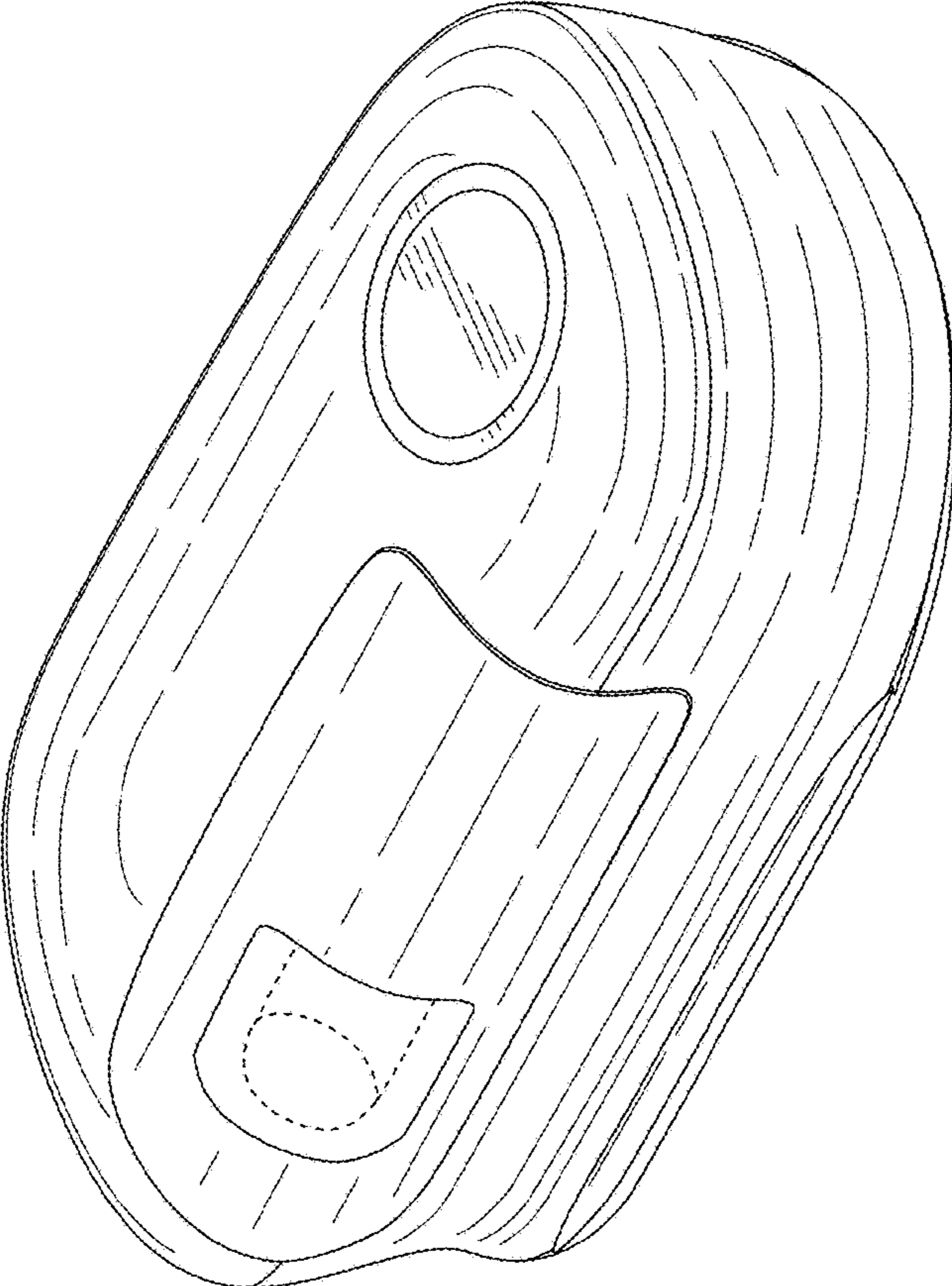


FIG.1

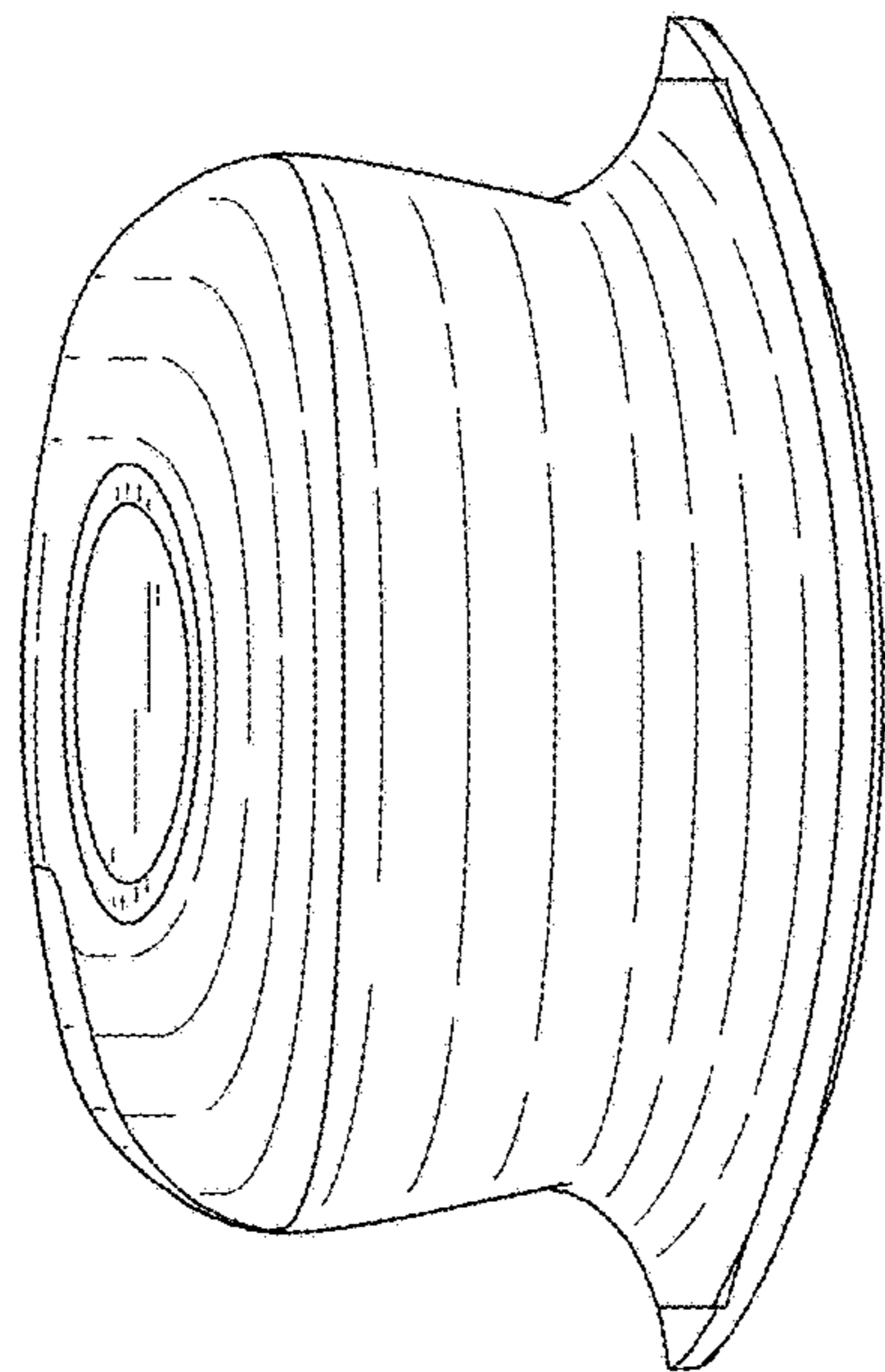


FIG.2

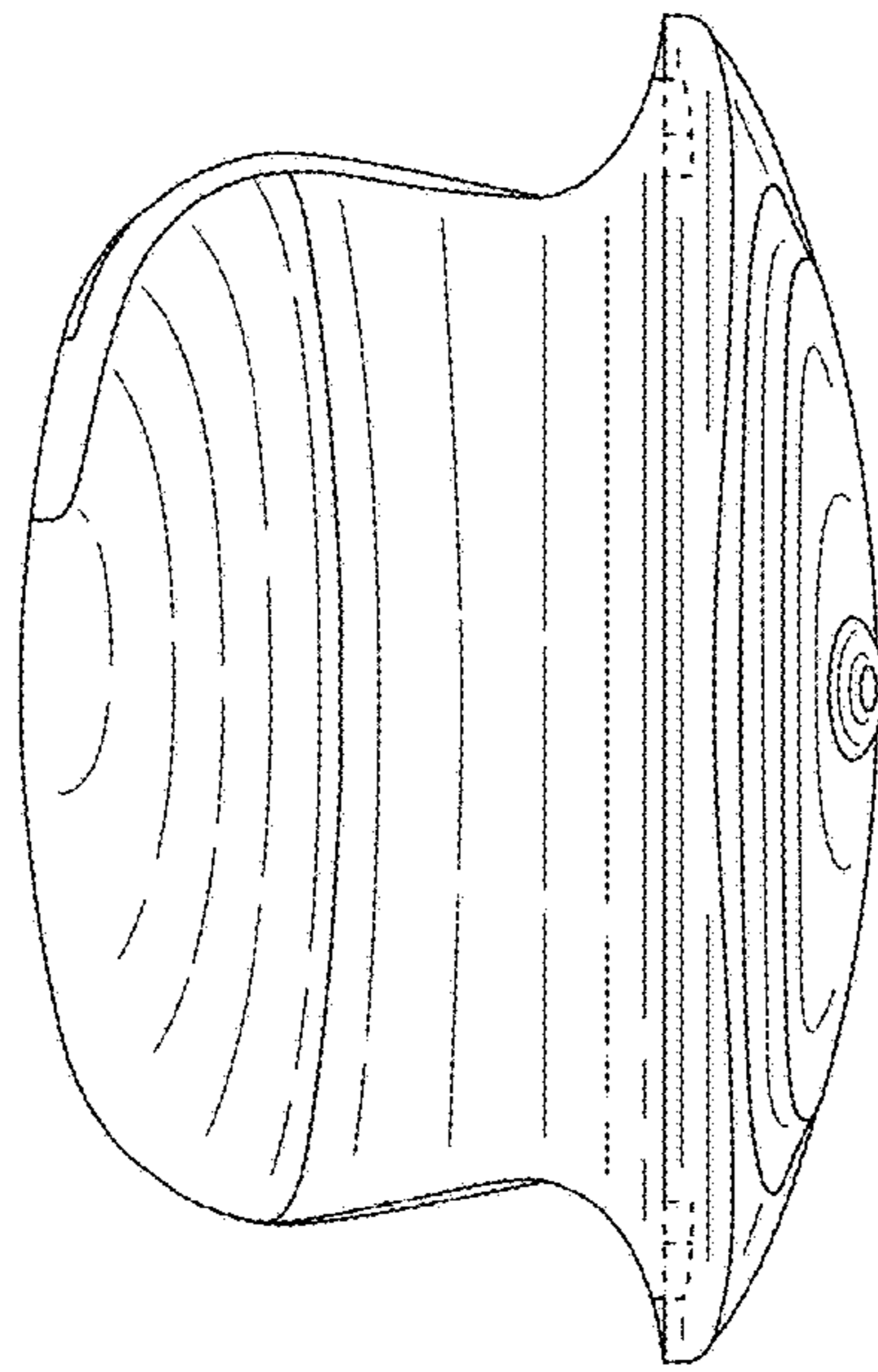


FIG.3

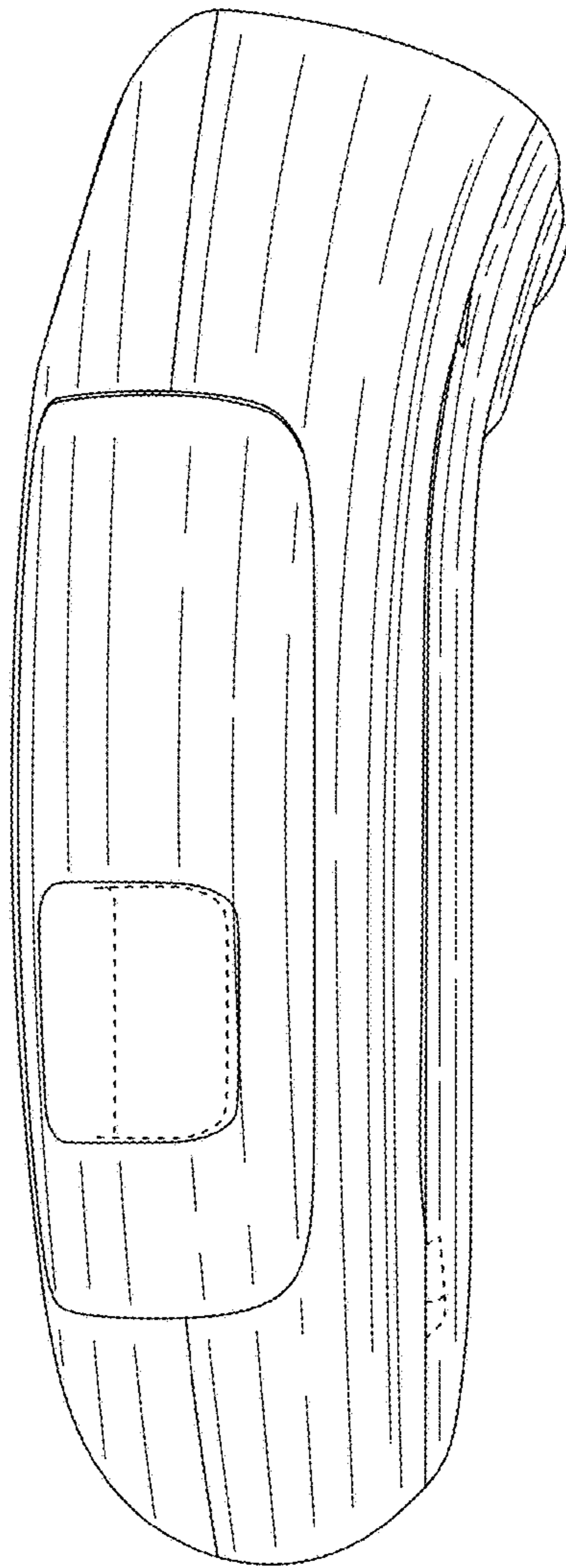


FIG.4

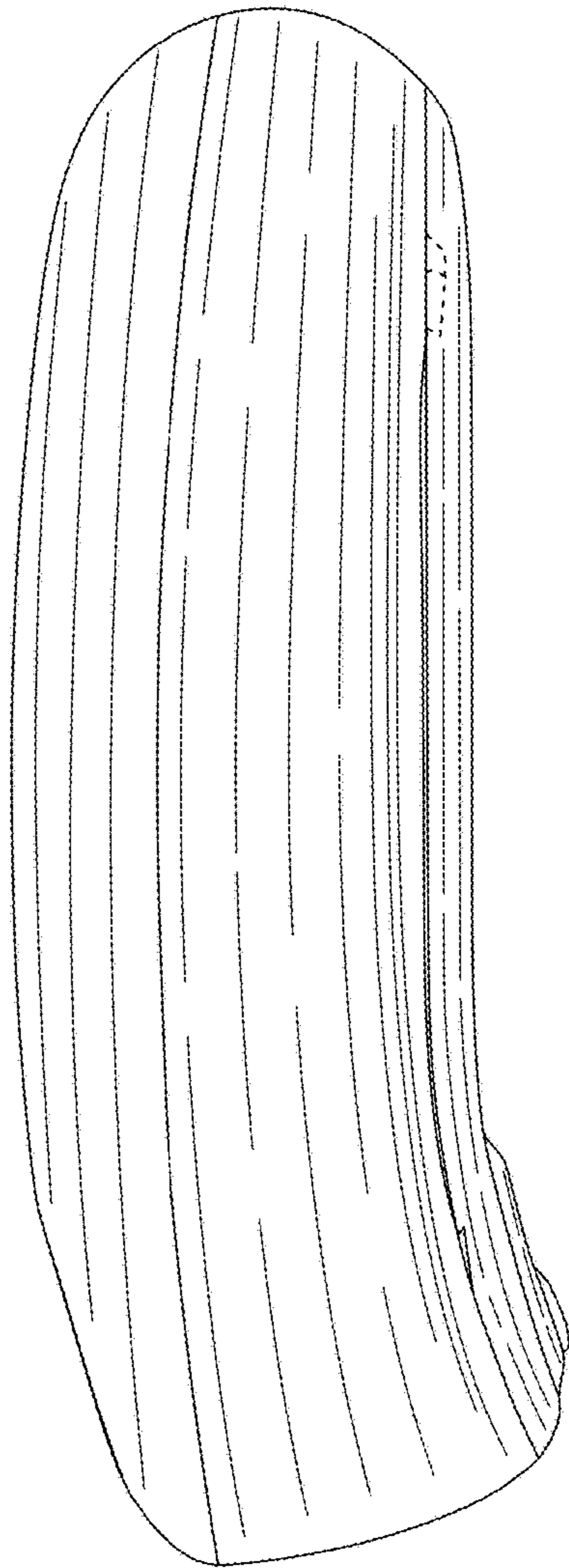


FIG.5

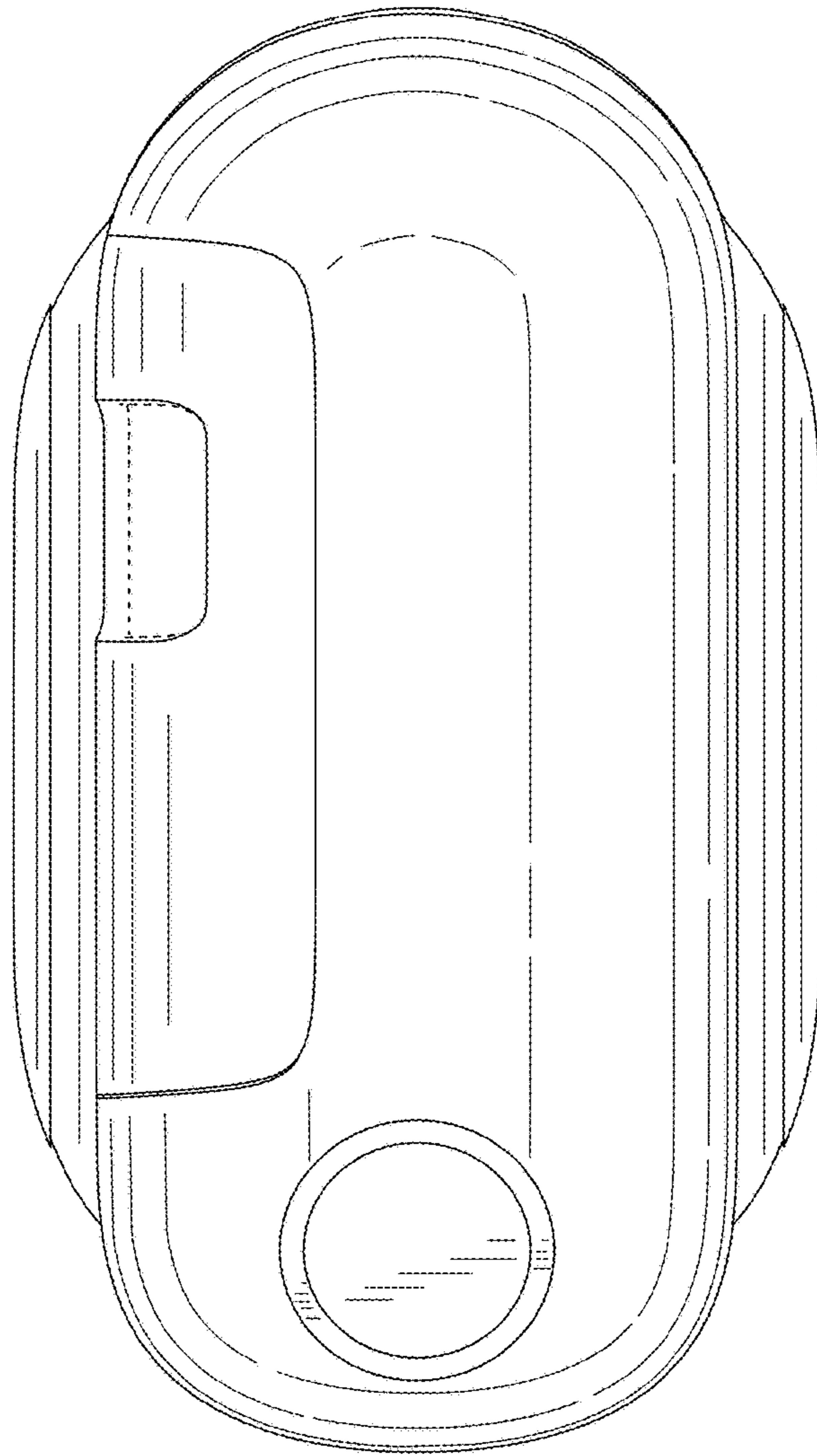


FIG.6



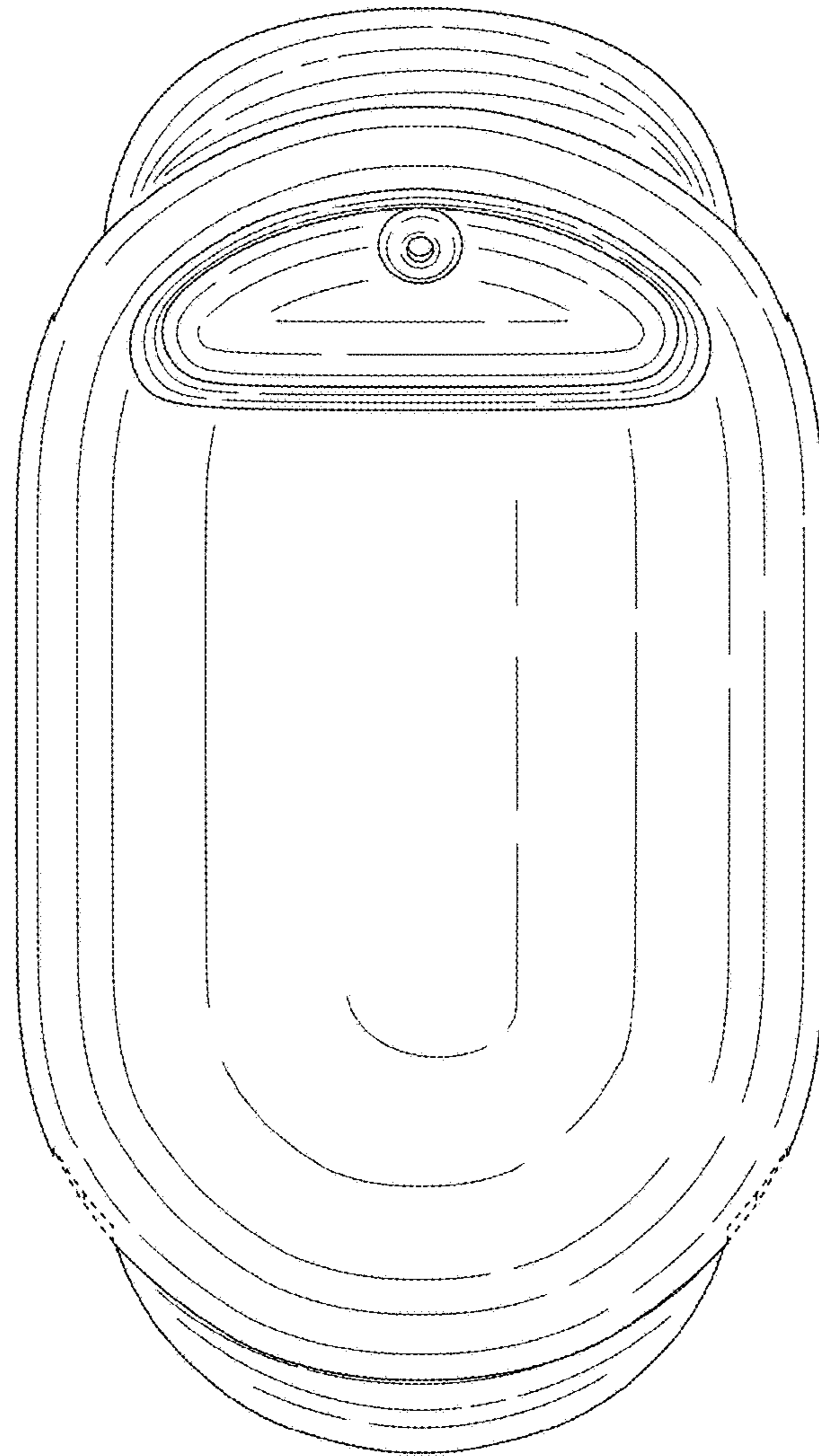


FIG.7