



US00D662203S

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

(10) **Patent No.:** **US D662,203 S**  
(45) **Date of Patent:** **\*\* Jun. 19, 2012**

(54) **NASAL DILATOR**

(75) Inventor: **David William Smith**, Richmond, IN  
(US)

(73) Assignee: **SmithKline Beecham Corporation**,  
Philadelphia, PA (US)

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

(21) Appl. No.: **29/394,694**

(22) Filed: **Jun. 20, 2011**

**Related U.S. Application Data**

(63) Continuation of application No. 11/848,132, filed on  
Aug. 30, 2007, now abandoned.

(51) **LOC (9) Cl.** ..... **24-02**

(52) **U.S. Cl.** ..... **D24/135**

(58) **Field of Classification Search** ..... D24/133,  
D24/135, 136, 189; D28/4; D29/108;  
606/191-199, 204.45; 128/848  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,906,073 A	9/1975	Kim et al.
4,075,379 A	2/1978	Lloyd
4,101,358 A	7/1978	Kim et al.
4,422,650 A	12/1983	Reinsma et al.
4,576,168 A	3/1986	Jalowsky
4,693,858 A	9/1987	Volke
4,743,499 A	5/1988	Volke
4,827,925 A	5/1989	Vilasi
4,942,714 A	7/1990	Langley, Jr. et al.
5,022,389 A	6/1991	Brennan
5,090,408 A	2/1992	Spofford et al.
5,186,168 A	2/1993	Spofford et al.
5,269,769 A	12/1993	Dhara et al.
5,297,546 A	3/1994	Spofford et al.
5,303,917 A	4/1994	Uke
5,392,568 A	2/1995	Howard, Jr. et al.

5,466,724 A	11/1995	Volke et al.
5,476,091 A	12/1995	Johnson
5,530,989 A	7/1996	Remmert et al.
5,533,499 A	7/1996	Johnson
5,533,503 A	7/1996	Doubek et al.
5,534,561 A	7/1996	Volke
5,549,103 A	8/1996	Johnson
5,569,218 A	10/1996	Berg
5,605,543 A	2/1997	Swanson
5,611,333 A	3/1997	Johnson

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 0588949 12/1992

(Continued)

**OTHER PUBLICATIONS**

International Search Report & Written Opinion for PCT Application  
No. PCT/US2007/077313; Date of Mailing: Apr. 1, 2008; 9 pages.

(Continued)

*Primary Examiner* — Bridget L Eland

(74) *Attorney, Agent, or Firm* — Joshua C. Sanders;  
Theodore R. Furman

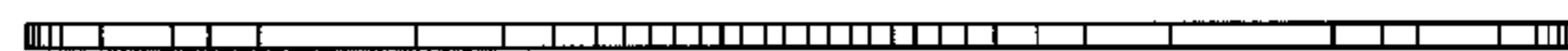
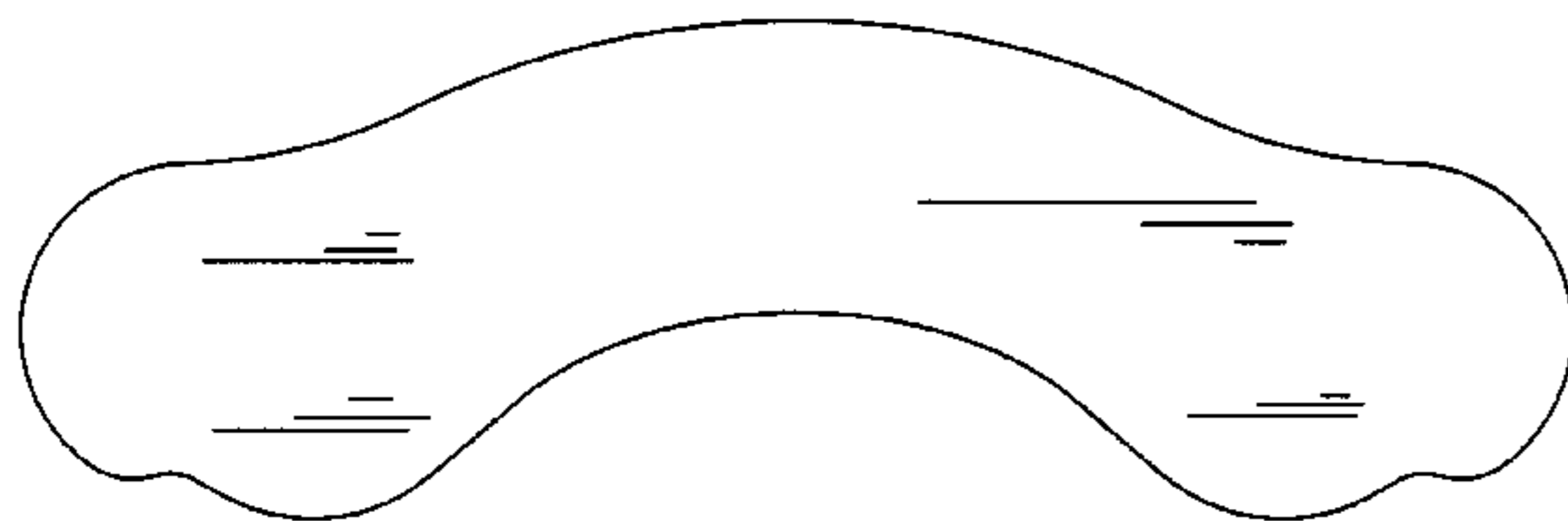
(57) **CLAIM**

The ornamental design for a nasal dilator, as shown and  
described.

**DESCRIPTION**

FIG. 1 is a top and front perspective view of a nasal dilator,  
showing a new design;  
FIG. 2 is a top plan view thereof, both the top and bottom view  
being the same;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a rear elevational view thereof; and,  
FIG. 5 is an end elevational view thereof, both ends being the  
same.

**1 Claim, 2 Drawing Sheets**



# US D662,203 S

Page 2

## U.S. PATENT DOCUMENTS

D379,513	S	5/1997	Ierulli	
D380,264	S	6/1997	Petruson	
5,653,224	A	8/1997	Johnson	
5,706,800	A	1/1998	Cronk et al.	
5,743,876	A	4/1998	Swanson	
5,746,770	A	5/1998	Zeitels et al.	
5,890,486	A	4/1999	Mitra et al.	
5,897,537	A	4/1999	Berg et al.	
5,911,715	A	6/1999	Berg et al.	
5,957,126	A	9/1999	Neeser	
6,029,658	A	2/2000	De Voss	
D422,358	S	4/2000	Lundy, Jr. et al.	
D422,702	S	4/2000	Lundy, Jr. et al.	
D422,703	S	4/2000	Lundy, Jr. et al.	
D429,332	S *	8/2000	Ierulli	D24/135
D430,295	S *	8/2000	Ierulli	D24/135
D434,146	S *	11/2000	Ierulli	D24/135
D441,081	S *	4/2001	Mueller	D24/189
6,213,121	B1	4/2001	Cardarelli	
6,244,265	B1	6/2001	Cronk et al.	
6,248,247	B1	6/2001	Goenka et al.	
6,270,831	B2	8/2001	Kumar et al.	
6,276,360	B1	8/2001	Cronk et al.	
6,318,362	B1	11/2001	Johnson	
6,453,901	B1	9/2002	Ierulli	
6,463,633	B1	10/2002	Sangani et al.	
6,475,703	B2	11/2002	Li et al.	
6,550,474	B1	4/2003	Anderson et al.	
6,569,934	B2	5/2003	Noel, III	
6,631,714	B2	10/2003	Von Duyke et al.	
6,645,338	B1	11/2003	Sangani et al.	
6,678,553	B2	1/2004	Lerner et al.	
D490,897	S	6/2004	Ruch	
6,767,202	B2	7/2004	Gorman et al.	
6,769,428	B2	8/2004	Cronk et al.	
6,769,429	B1	8/2004	Benetti	
6,858,024	B1	2/2005	Berg et al.	
6,902,575	B2	6/2005	Laakso et al.	
6,969,479	B2	11/2005	Gorman et al.	
7,011,093	B2	3/2006	Anderson et al.	
7,013,889	B2	3/2006	Cronk et al.	
7,017,580	B2	3/2006	Prescott et al.	
7,037,457	B2	5/2006	Seidel et al.	
7,114,495	B2	10/2006	Lockwood, Jr.	
D574,085	S *	7/2008	Lucchetti	D24/190
D639,762	S *	6/2011	Brogden et al.	D24/135
D644,324	S *	8/2011	Brunner et al.	D24/135
D644,325	S *	8/2011	Brunner et al.	D24/135
2001/0002000	A1	5/2001	Kumar et al.	
2002/0000227	A1	1/2002	Duyke et al.	
2002/0086243	A1	7/2002	Li et al.	
2003/0114910	A1	6/2003	Juhani Laakso et al.	
2004/0005830	A1	1/2004	Anderson et al.	
2004/0149290	A1	8/2004	Nelson et al.	
2004/0231679	A1	11/2004	Prescott et al.	
2004/0242976	A1	12/2004	Abren	
2004/0243102	A1	12/2004	Berg et al.	
2005/0045188	A1	3/2005	Mendius et al.	
2005/0066965	A1	3/2005	Cronk et al.	
2005/0081846	A1	4/2005	Barney	
2005/0124445	A1	6/2005	Veilleux et al.	
2005/0129913	A1	6/2005	Kobayashi et al.	
2005/0149080	A1	7/2005	Hunter et al.	

2005/0149158	A1	7/2005	Hunter et al.	
2005/0161046	A1	7/2005	Michaels	
2005/0165488	A1	7/2005	Hunter et al.	
2005/0175663	A1	8/2005	Hunter et al.	
2005/0175665	A1	8/2005	Hunter et al.	
2005/0175703	A1	8/2005	Hunter et al.	
2005/0177225	A1	8/2005	Hunter et al.	
2005/0178395	A1	8/2005	Hunter et al.	
2005/0178396	A1	8/2005	Hunter et al.	
2005/0181008	A1	8/2005	Hunter et al.	
2005/0181011	A1	8/2005	Hunter et al.	
2005/0189372	A1	9/2005	Fenton	
2005/0244614	A1	11/2005	Bharadwaj et al.	
2005/0284485	A9	12/2005	Nelson et al.	
2006/0085027	A1	4/2006	Santin et al.	
2008/0058858	A1 *	3/2008	Smith	606/199
2008/0097517	A1 *	4/2008	Holmes et al.	606/199

## FOREIGN PATENT DOCUMENTS

EP	0659522	6/1995
EP	0909151	10/1997
EP	0820744	1/1998
EP	0861674	9/1998
EP	0799114	10/1998
EP	0820743	8/1999
EP	0820745	8/1999
EP	0900553	8/1999
EP	1006764	6/2000
EP	1299056	6/2001
EP	1174100	1/2002
EP	1035821	6/2003
EP	0912210	9/2003
EP	1006963	4/2004
EP	1267976	6/2006
ES	289561	10/1985
WO	WO9222340	12/1992
WO	WO9324161	12/1993
WO	WO9521640	8/1995
WO	WO9524236	9/1995
WO	WO9738651	10/1997
WO	WO9746275	12/1997
WO	WO9827897	7/1998
WO	WO9927880	6/1999
WO	WO9936193	7/1999
WO	WO0174432	10/2001
WO	WO0196457	12/2001
WO	WO0205734	1/2002
WO	WO0215896	2/2002
WO	WO03051235	6/2003
WO	WO03060843	7/2003
WO	WO2004108817	12/2004
WO	WO2005015163	2/2005
WO	WO2005051292	6/2005
WO	WO2005063328	7/2005

## OTHER PUBLICATIONS

European Search Report for EP Application No. EP07841675; Date of Mailing: Oct. 27, 2009; 6 pages.  
 CNS, Inc., package insert for Breathe Right® Snore Relief™ product; 2006.  
 Kienstra et al., "Effects of the Nasal Muscles on the Nasal Airway," American Journal of Rhinology, Jul.-Aug. 2005, 19:4; 7 pages.

\* cited by examiner

FIG. 1

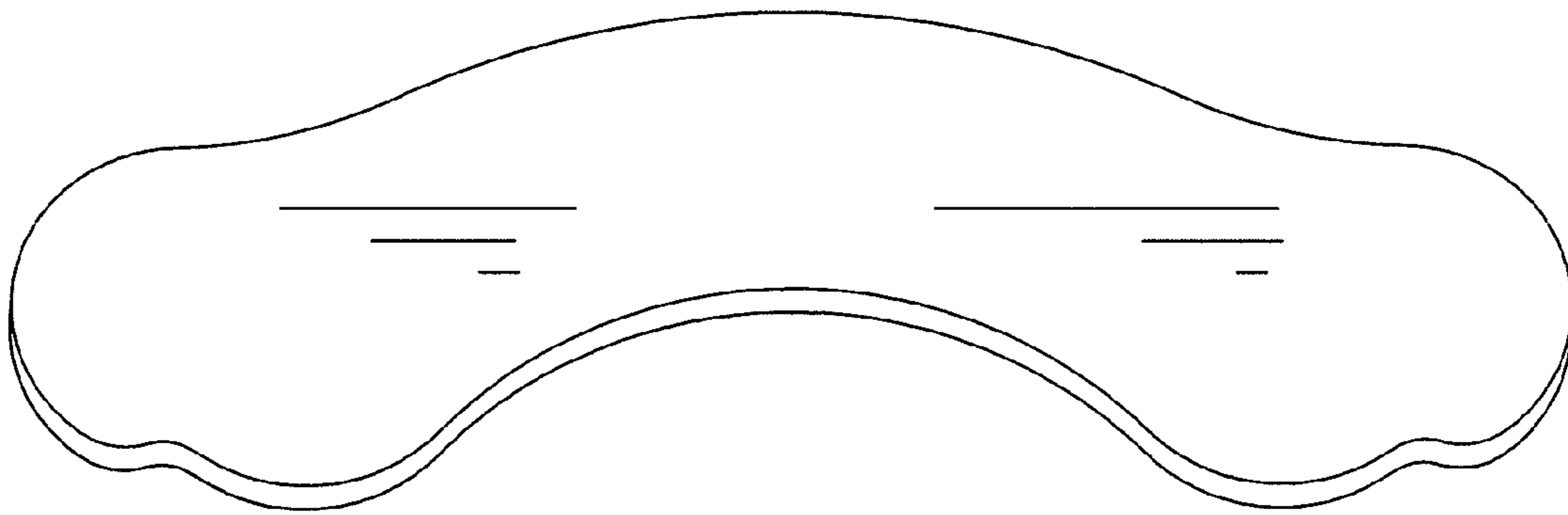


FIG. 2

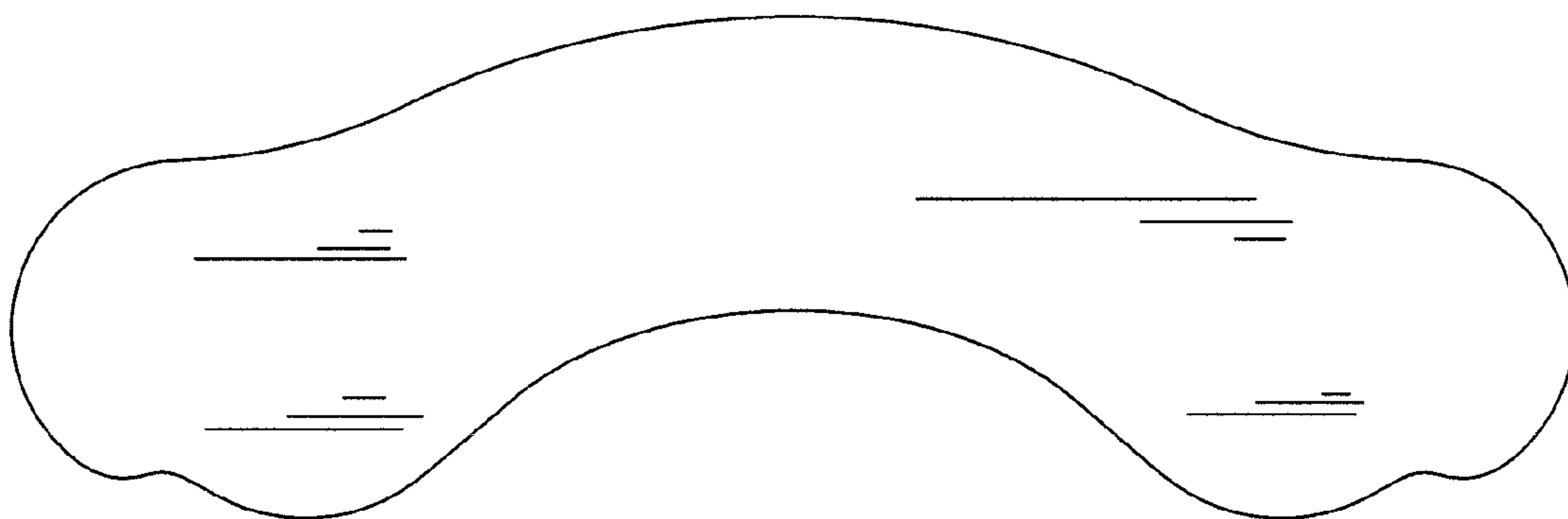


FIG. 3

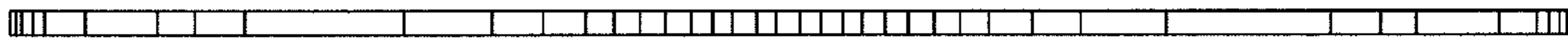


FIG. 4

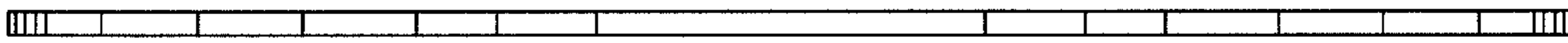


FIG. 5

