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(12) **United States Design Patent**  
**Duffy et al.**

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(54) **RESPIRATOR HAVING FOLDED NOSE REGION**

D629,885 S 12/2010 Skulley et al.  
D659,820 S \* 5/2012 Abel et al. .... D24/110.1  
2008/0271739 A1 11/2008 Facer

(Continued)

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FOREIGN PATENT DOCUMENTS

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FR 2373294 7/1978  
FR 2471792 6/1981

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/364,581**

JPO Design Division Documents Card No. HD03006288 for "Dust Respirator", accepted by JPO on Jul. 9, 1991, Plastics Catalog, p. 47.

(Continued)

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(51) **LOC (10) Cl.** ..... **29-02**

*Primary Examiner* — Richard E Chilcot

(52) **U.S. Cl.**

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USPC ..... **D24/110**

(58) **Field of Classification Search**

(57) **CLAIM**

USPC ..... 128/857, 863, 201.17, 206.21–207.18;  
D24/110.1–110.6

The ornamental design for a respirator having a folded nose region, as shown and described.

**DESCRIPTION**

See application file for complete search history.

FIG. 1 is a view taken in the direction of lines 1-1 of FIG. 3, showing the new design for a respirator having a folded nose region;

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,012,505	A	8/1935	Goldsmith	
3,288,138	A *	11/1966	Sachs	128/863
D235,687	S *	7/1975	Bragg	D24/110.1
3,971,369	A	7/1976	Aspelin et al.	
3,985,132	A	10/1976	Boyce et al.	
4,167,185	A	9/1979	Lewis	
4,319,567	A	3/1982	Magidson	
D271,432	S *	11/1983	Liao et al.	D24/110.1
4,688,566	A	8/1987	Boyce	
4,966,140	A	10/1990	Herzberg	
5,025,506	A	6/1991	Huang	
6,520,181	B2	2/2003	Baumann et al.	
6,722,366	B2	4/2004	Bostock	
6,945,249	B2	9/2005	Griesbach	

FIG. 2 is a front view thereof;

FIG. 3 is a broken left side view, the right side being a mirror image thereof;

FIG. 4 is a top view thereof;

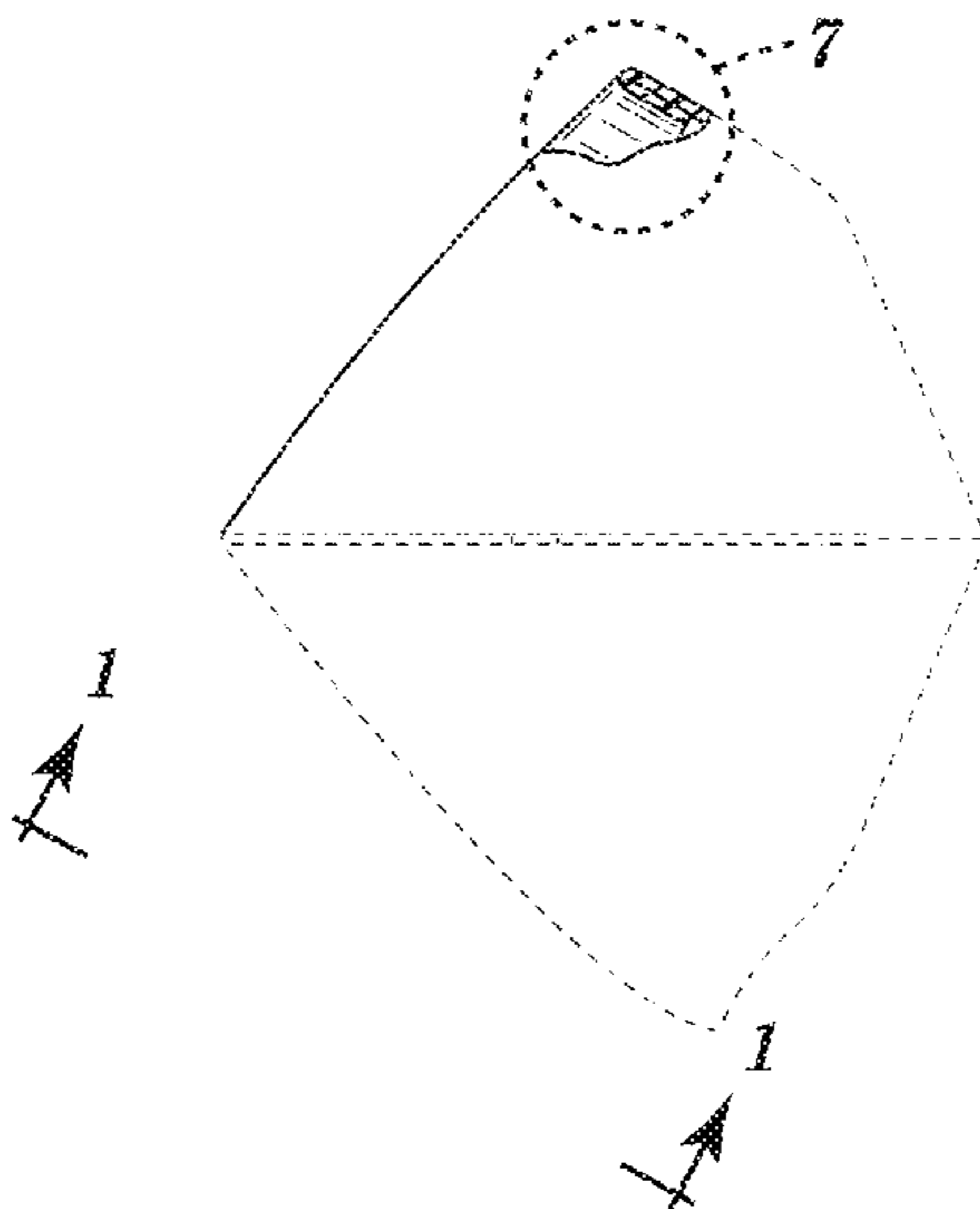
FIG. 5 is a bottom view thereof;

FIG. 6 is a rear view thereof; and,

FIG. 7 is an enlarged view of the circled region in FIG. 3.

The respirator is shown in an open in-use condition; it also may be folded flat for storage. The broken line showing forms no part of the claimed design, and the shading is provided to illustrate contour only and is not an indication of texture, gloss, etc.

**1 Claim, 3 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2009/0283096 A1 11/2009 Cerbini  
2010/0154804 A1 6/2010 Duffy  
2010/0154805 A1 6/2010 Duffy

FOREIGN PATENT DOCUMENTS

GB 2176404 A 12/1986  
JP 10005360 1/1998  
JP 2001-161843 6/2001  
JP 2007-054270 3/2007  
JP 2009-011709 1/2009

RU 71055 6/2009  
RU 73548 12/2009  
WO WO 2004/101074 A1 11/2004  
WO WO2009/146412 A1 12/2009

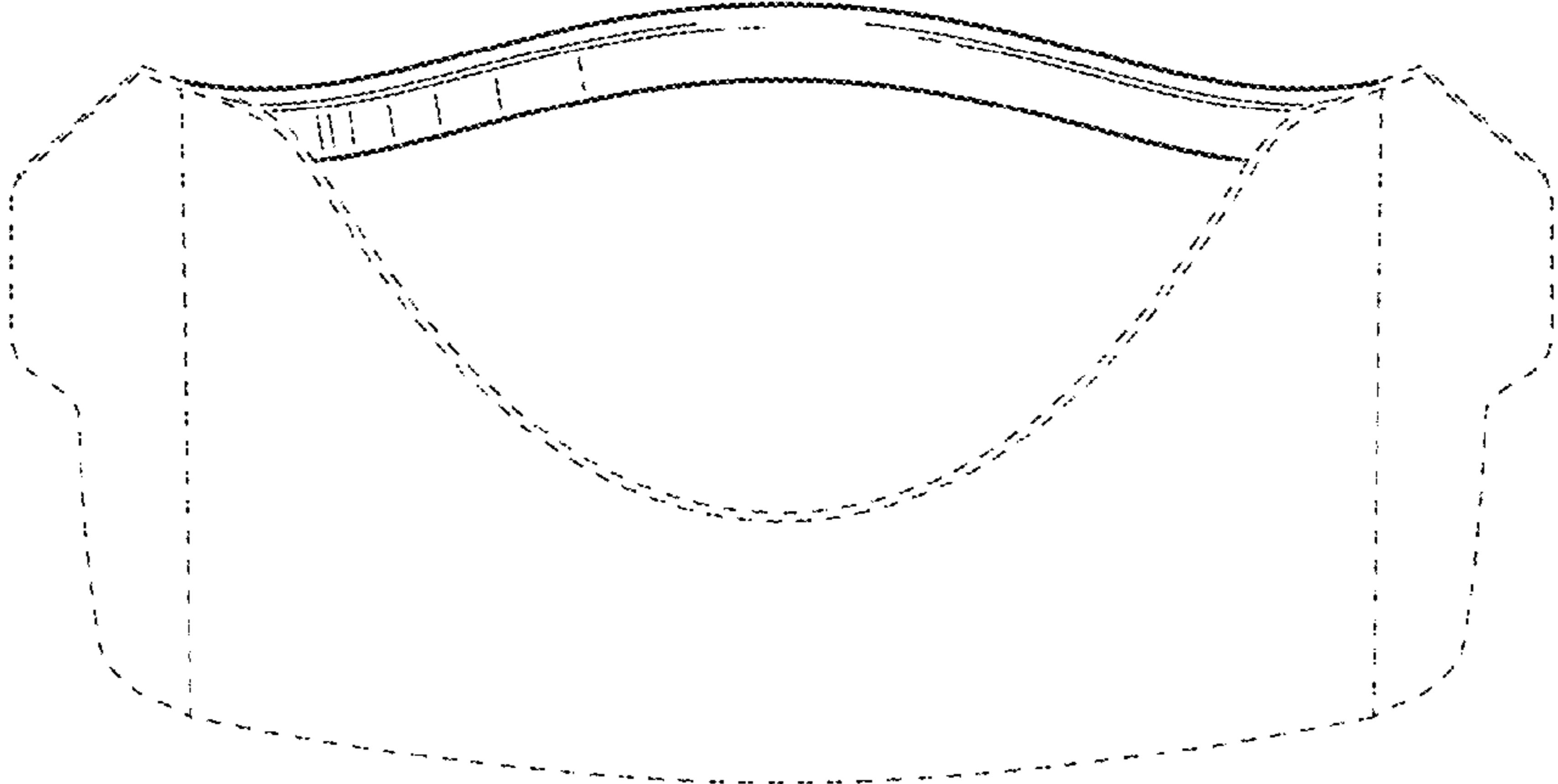
OTHER PUBLICATIONS

JPO Design Division Documents Card No. HD14012984 for "Respirator" accepted by JPO on Apr. 30, 2002, Gesamtprogramm, Gultig AB Jan. 2002, p. 74.

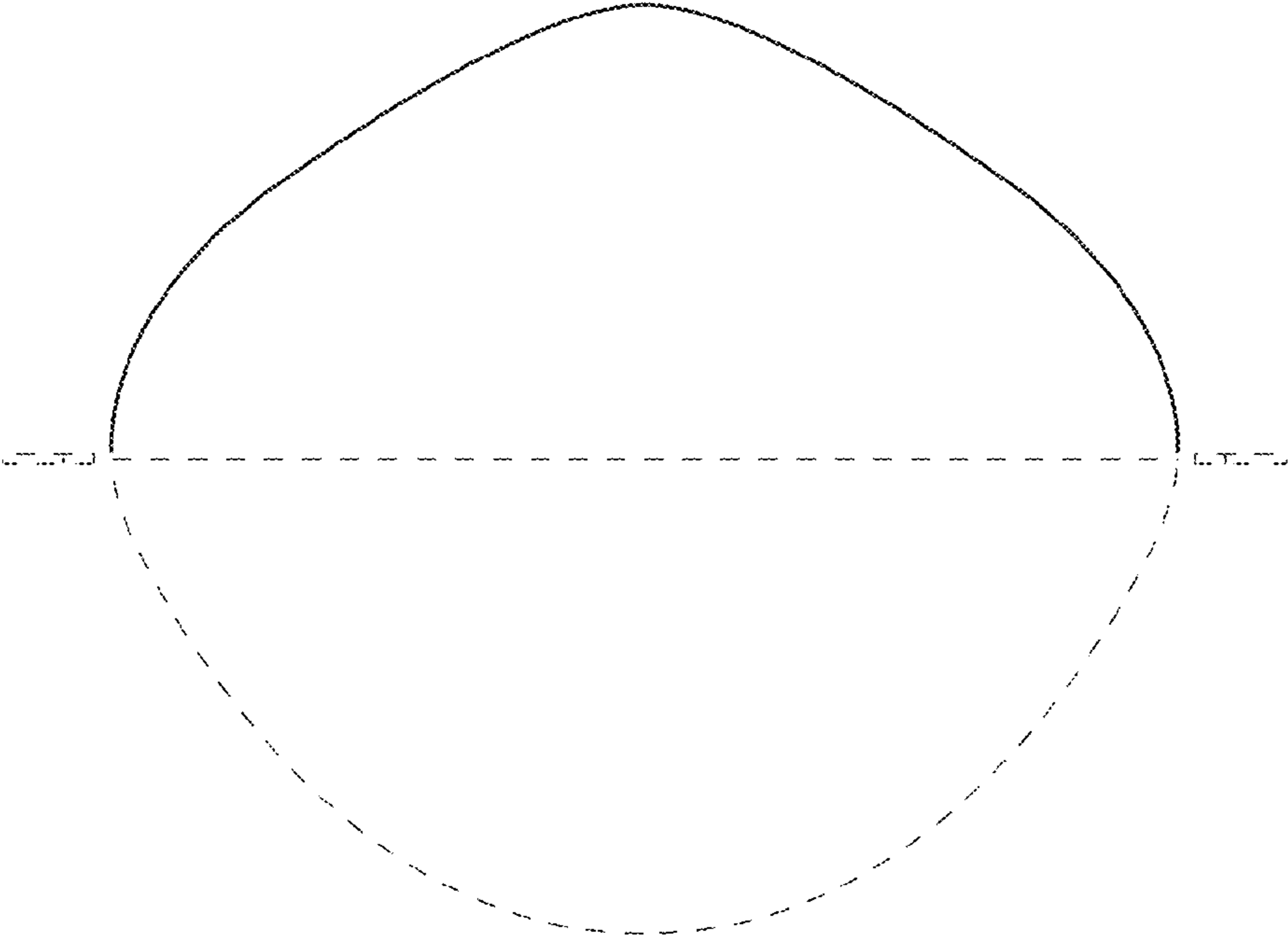
Giffard Sofraf product literature for Sigma and Alpha Respirators dated Oct. 29, 1987.

Vostock (Boctok) respirator catalog dated 2007.

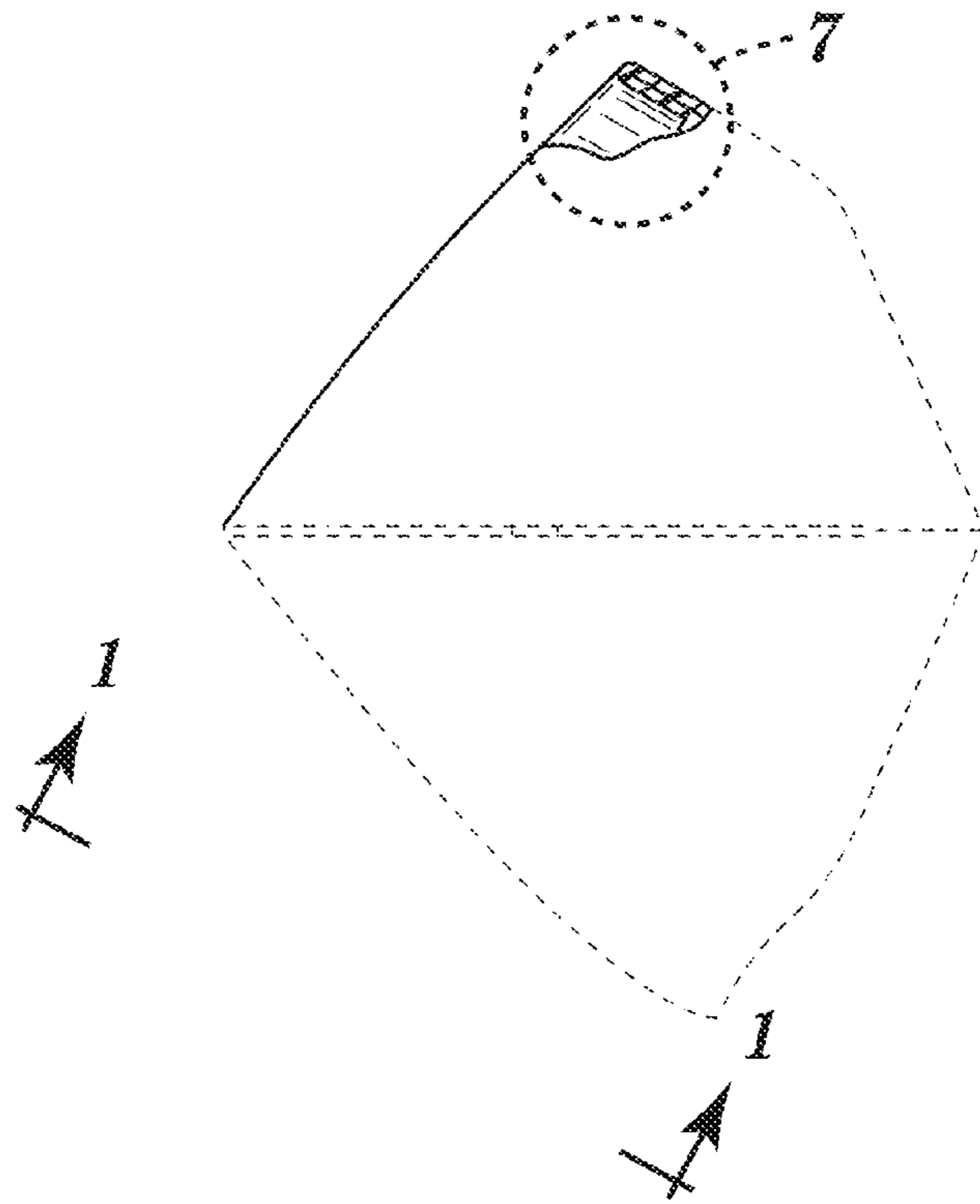
\* cited by examiner



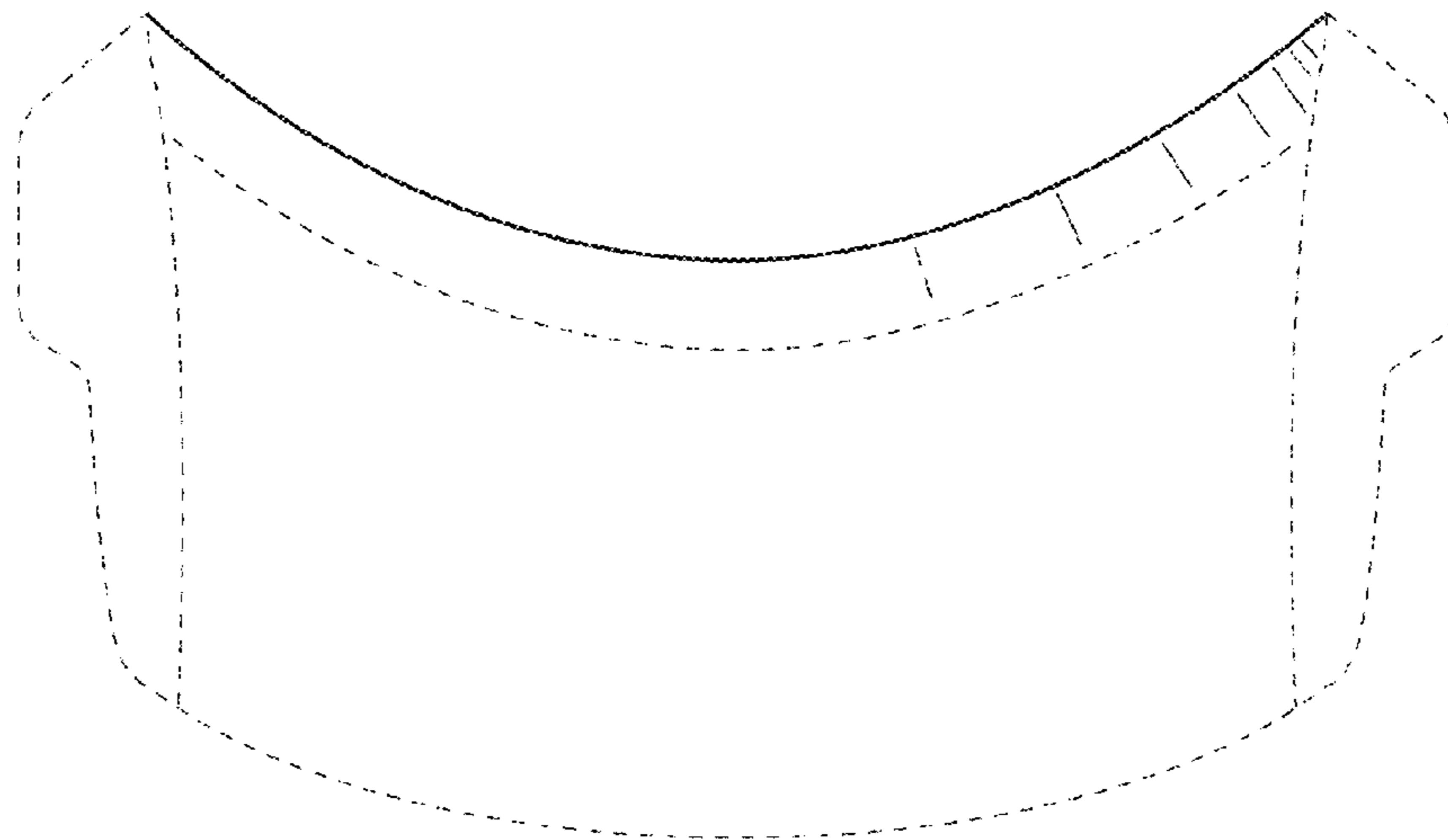
*Fig. 1*



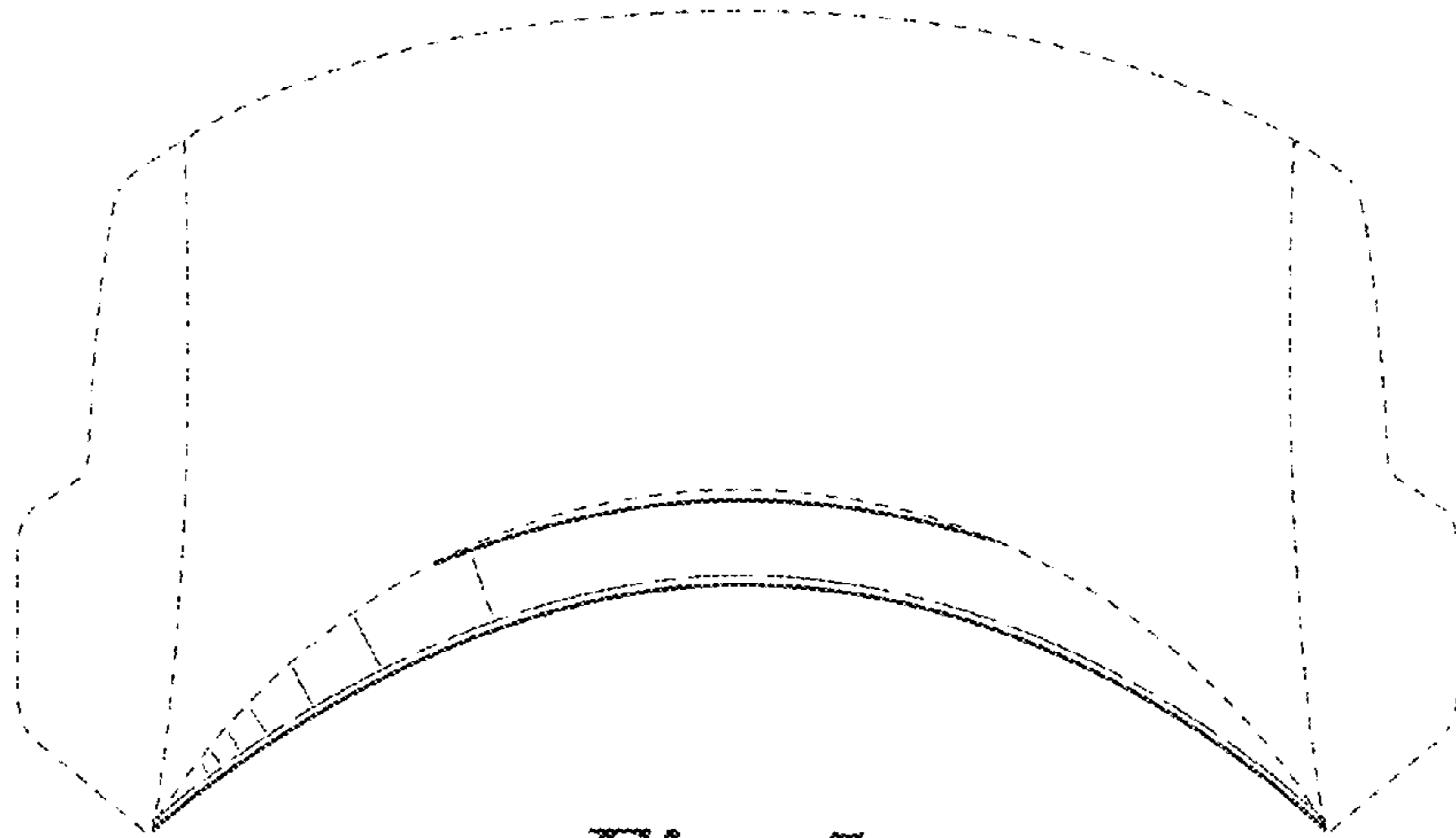
*Fig. 2*



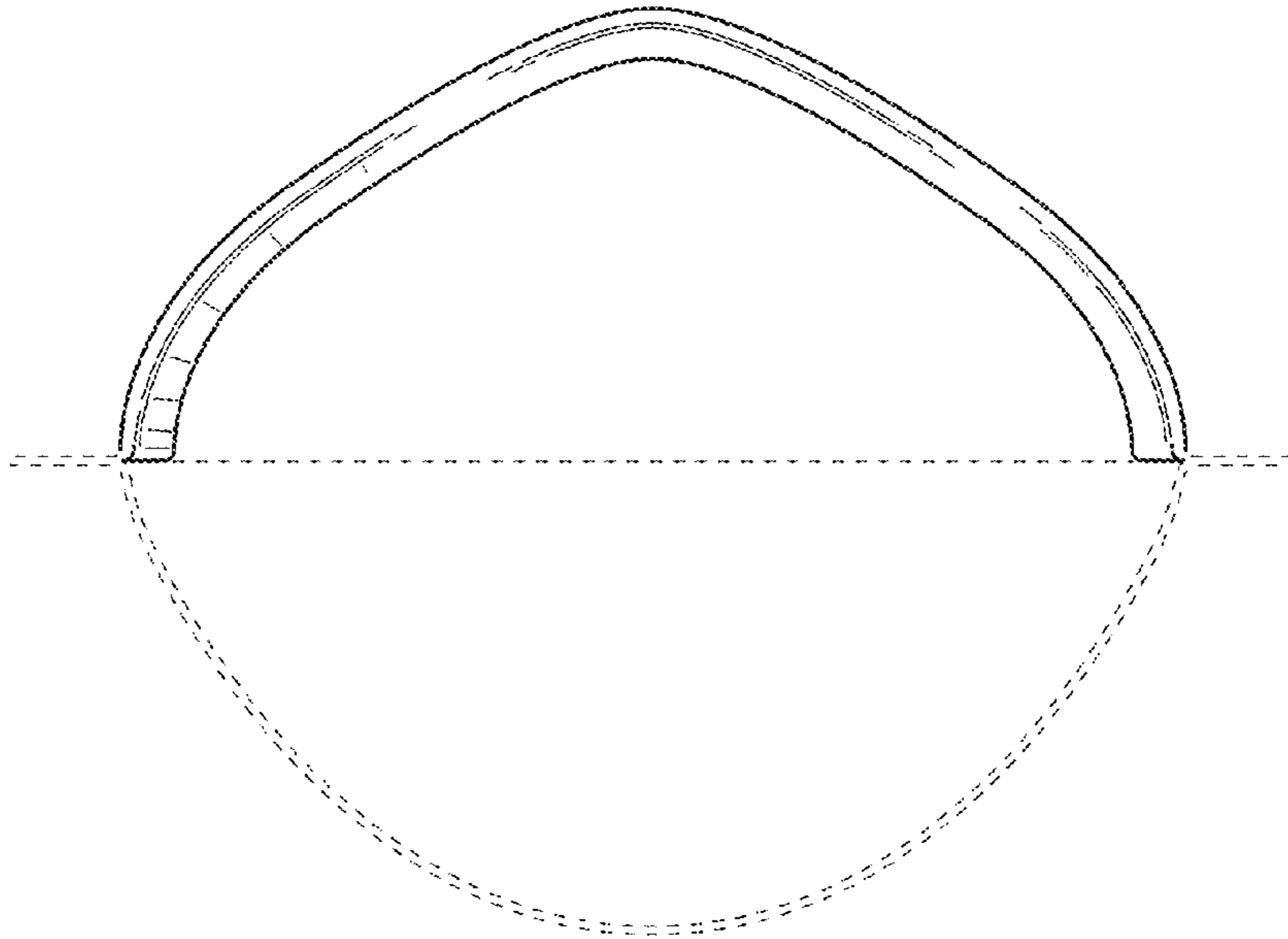
*Fig. 3*



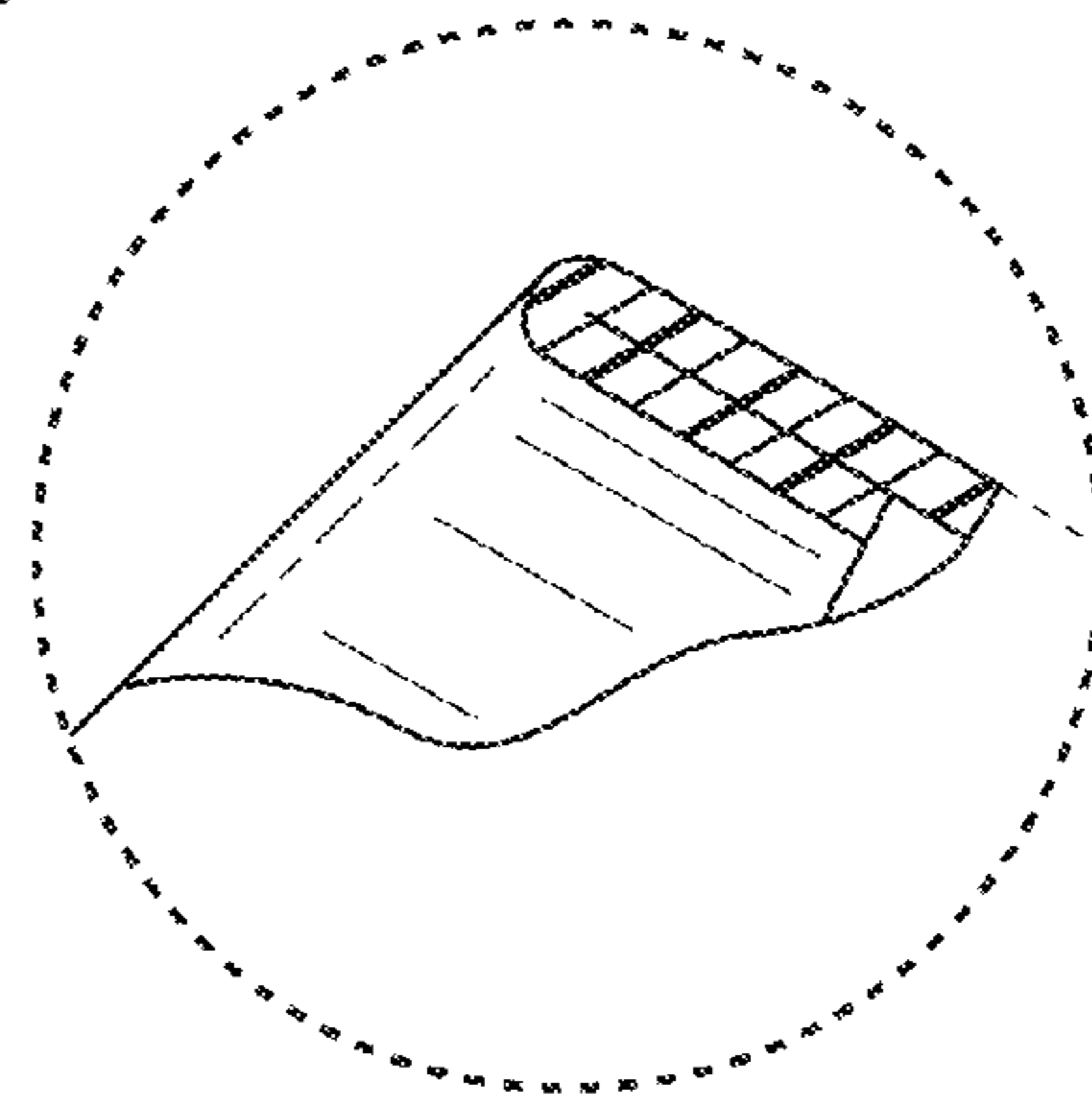
*Fig. 4*



*Fig. 5*



*Fig. 6*



*Fig. 7*