



US00D774987S

(12) **United States Design Patent** (10) **Patent No.:** **US D774,987 S**
Miles (45) **Date of Patent:** **** Dec. 27, 2016**

(54) **BICYCLE SPROCKET**

D715,699 S * 10/2014 Reiter D12/123
D716,191 S * 10/2014 Reiter D12/123
D728,432 S * 5/2015 Lin D12/123
9,086,138 B1 * 7/2015 Emura B62M 9/105

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(Continued)

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

(57) **CLAIM**

I claim the ornamental design for a bicycle sprocket, as shown and described herein.

(21) Appl. No.: **29/522,617**

DESCRIPTION

(22) Filed: **Apr. 1, 2015**

(51) **LOC (10) Cl.** **12-11**

(52) **U.S. Cl.**
USPC **D12/123**

(58) **Field of Classification Search**
USPC D12/111, 122-127; 474/77, 80, 116, 118,
474/152, 155-158, 160-164, 202;
280/288.4, 280/304.3, 304.4; 74/594.2
CPC F16H 7/06; F16H 55/30; F16H 55/303;
B62M 9/105

See application file for complete search history.

FIG. 1 is a perspective view of a bicycle sprocket, showing my new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is an enlarged view of part A as shown in FIG. 2;

FIG. 5 is a top plain view of the enlarged part A;

FIG. 6 is an enlarged view of part B as shown in FIG. 2;

FIG. 7 is an enlarged view of part C as shown in FIG. 3;

FIG. 8 is an enlarged view of part D as shown in FIG. 3;

FIG. 9 is a right view of enlarged part E as shown in FIG. 4;

FIG. 10 is a left view of enlarged part E as shown in FIG. 4;

FIG. 11 is a right view of enlarged part F as shown in FIG. 9; and,

FIG. 12 is a left view of enlarged part F as shown in FIG. 9.

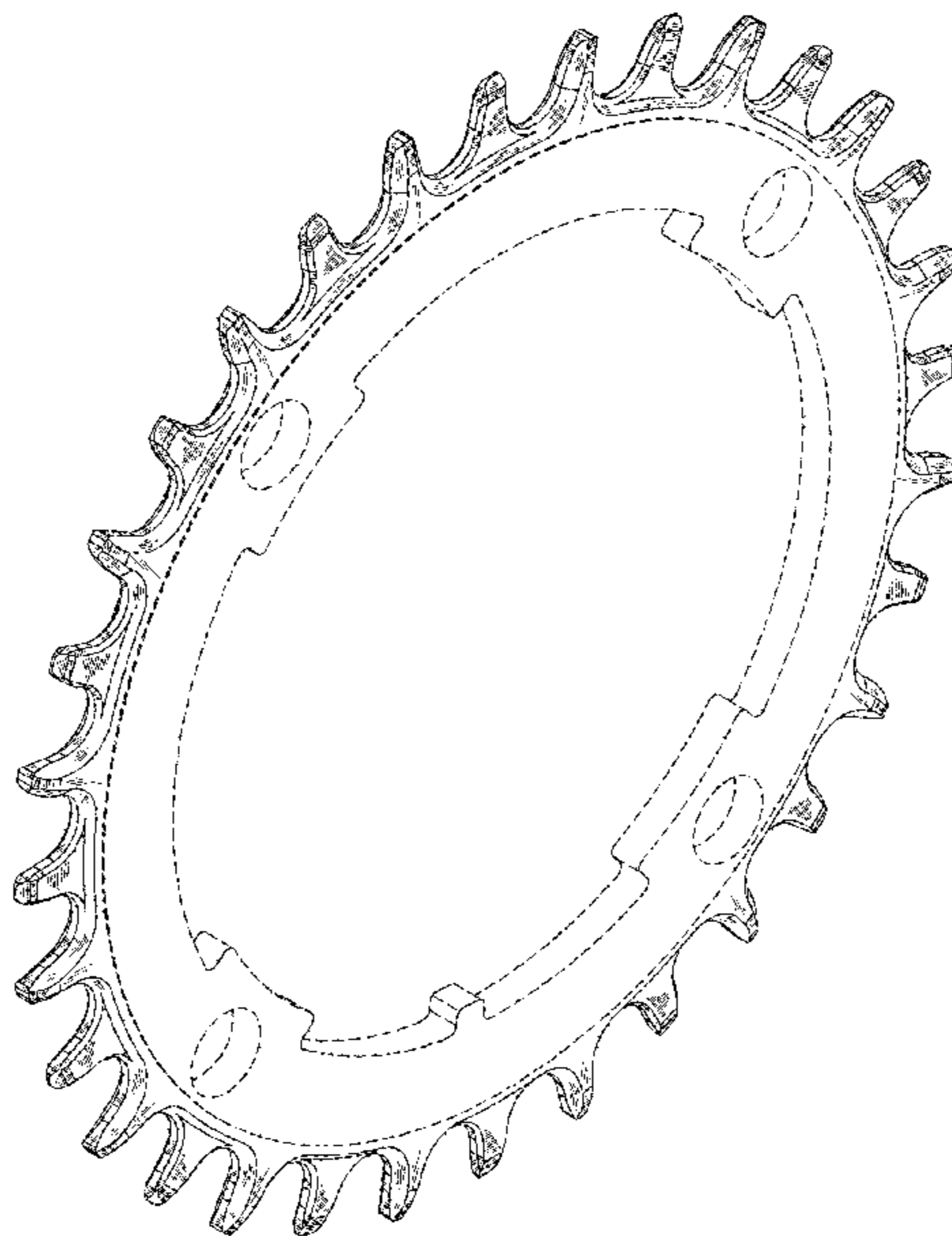
The broken lines showing features of the bicycle sprocket are provided for the purposes of illustrating portions of the article that form no part of the claimed design. Furthermore, the annotated broken line bubbles in FIGS. 2, 3, 4, 5, and 6 are provided to indicate the areas of enlargement of which are illustrated in other views.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D246,097 S * 10/1977 McGregor, Sr. D12/123
D397,966 S * 9/1998 Chang D12/123
D435,492 S * 12/2000 Shy D12/123
D478,849 S * 8/2003 Griffin D12/123
D599,255 S * 9/2009 Wickliffe D12/123
D599,716 S * 9/2009 Wickliffe D12/123
D599,717 S * 9/2009 Wickliffe D12/123
D599,718 S * 9/2009 Wickliffe D12/123
D599,719 S * 9/2009 Wickliffe D12/123
7,686,721 B2 * 3/2010 Tabe B62M 9/105
474/116

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2013/0072334 A1* 3/2013 Braedt F16H 7/06
474/156
2013/0139642 A1* 6/2013 Reiter B62M 9/105
74/594.2
2013/0184110 A1* 7/2013 Reiter F16H 55/303
474/152

* cited by examiner

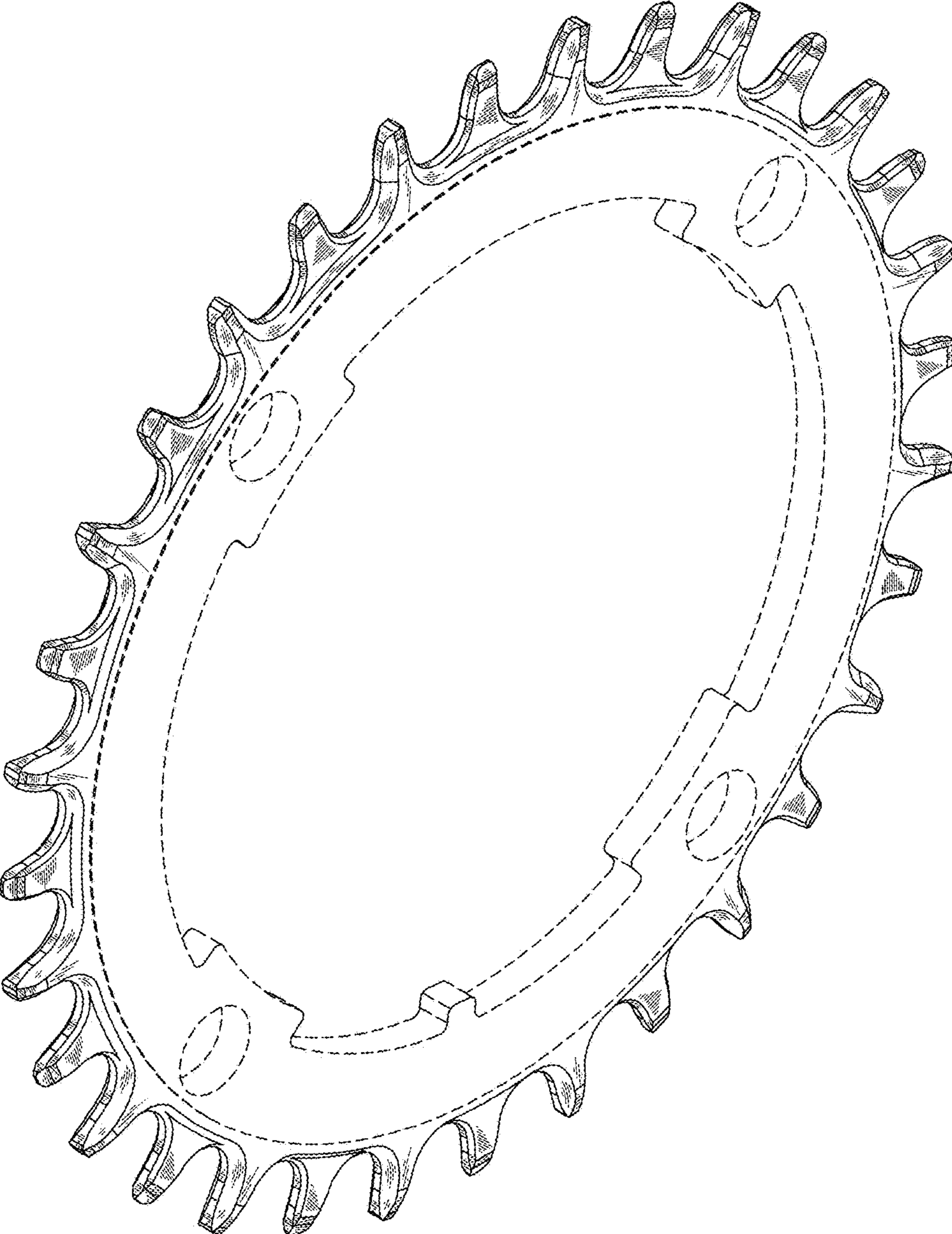


Fig. 1

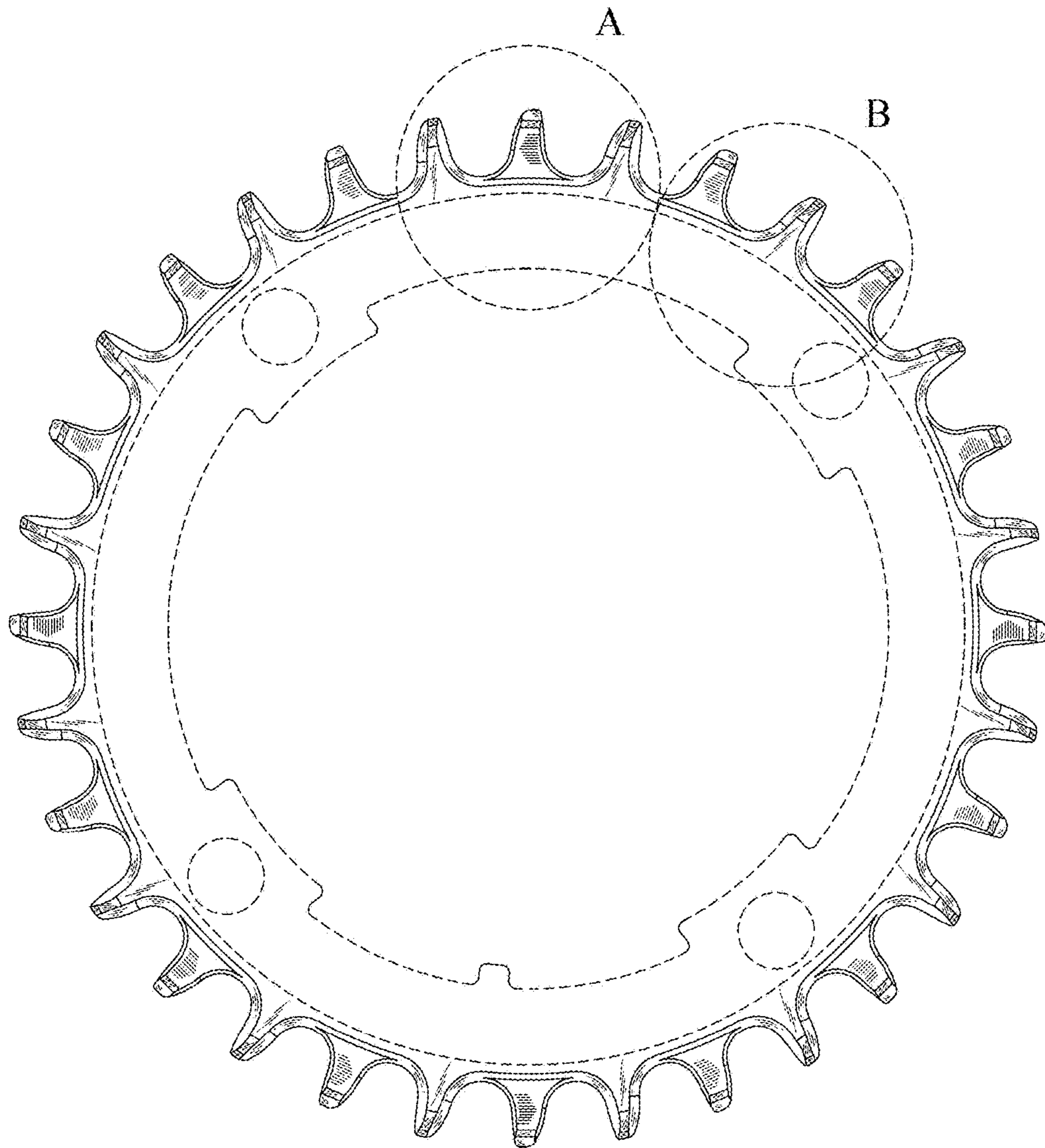


Fig. 2

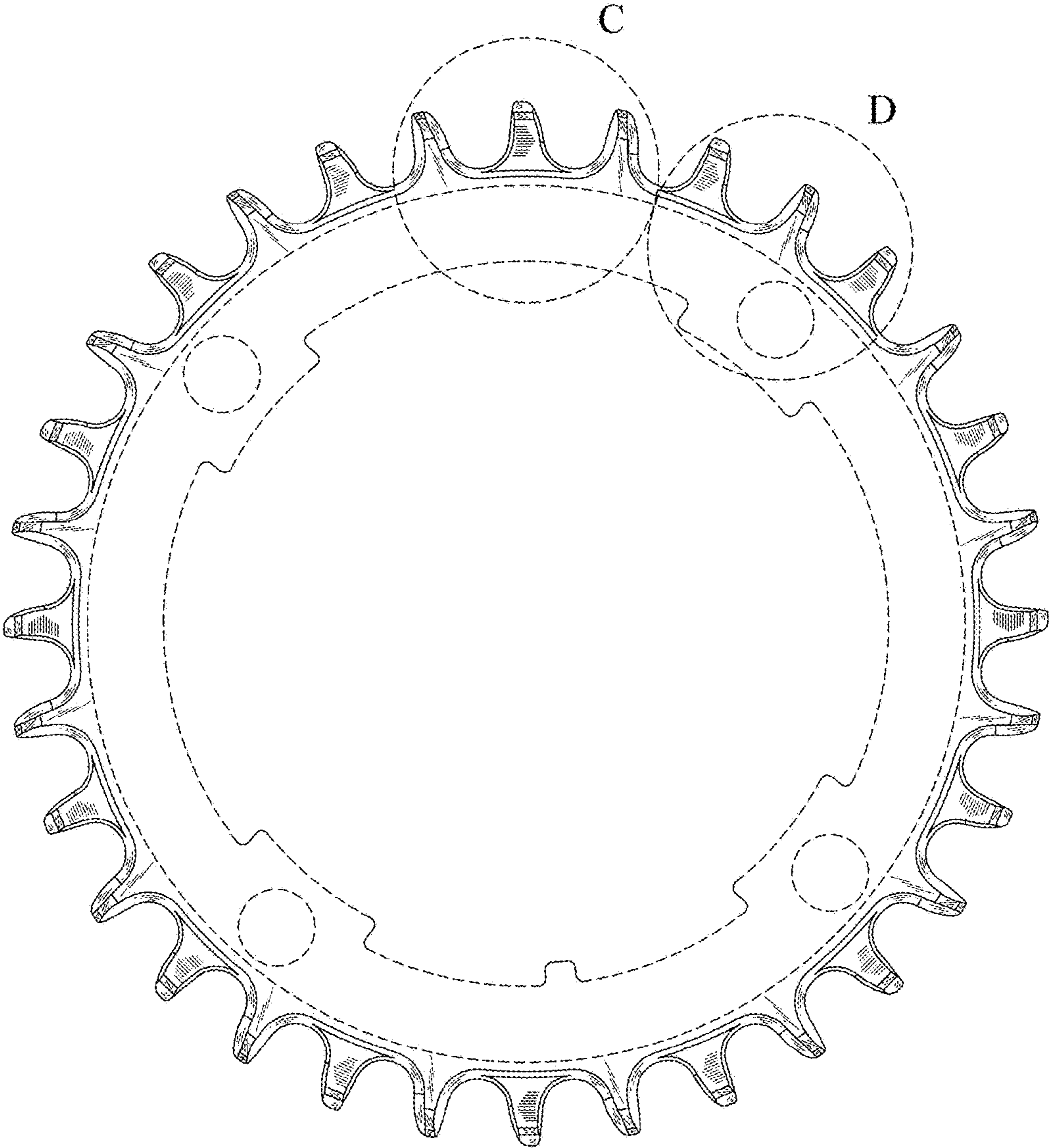


Fig. 3

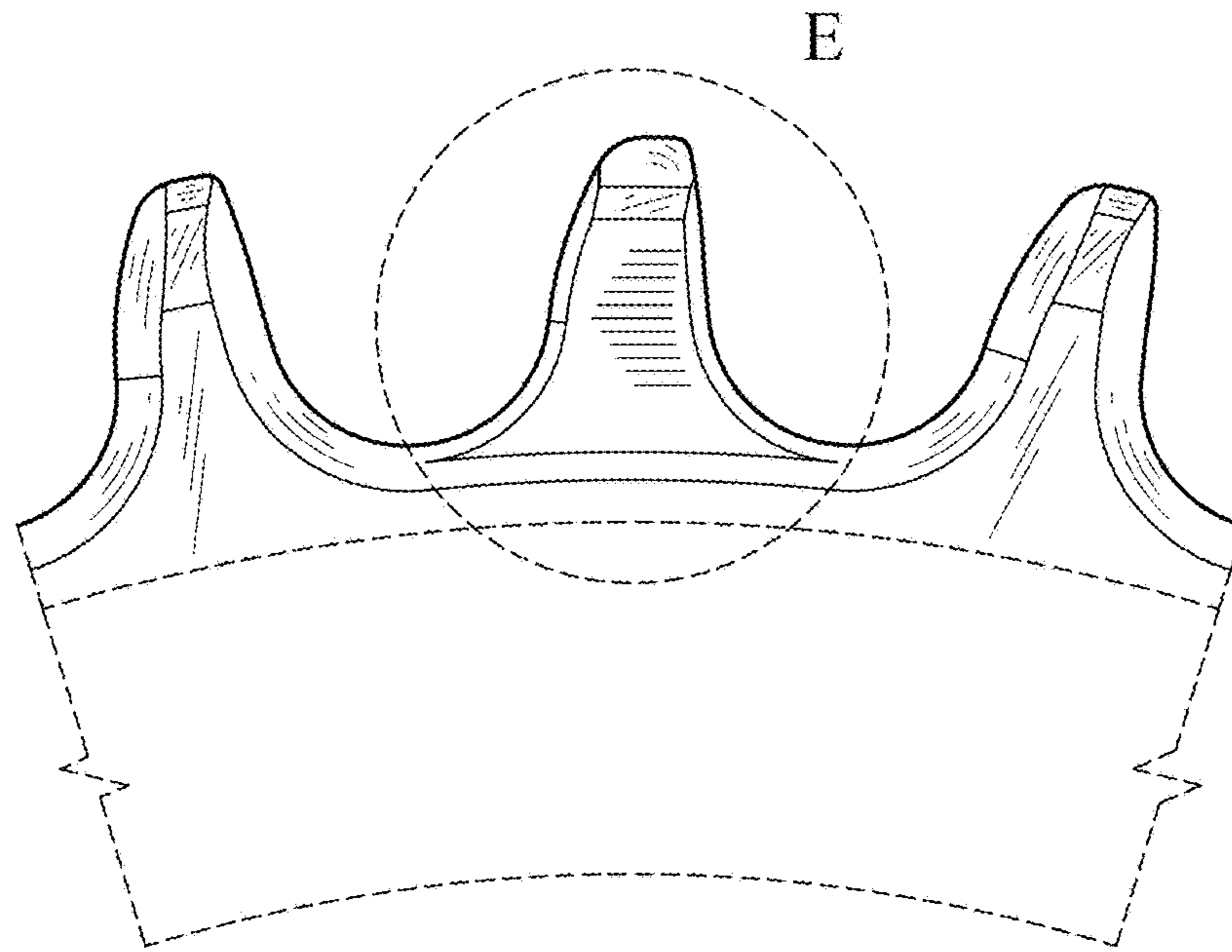


Fig. 4

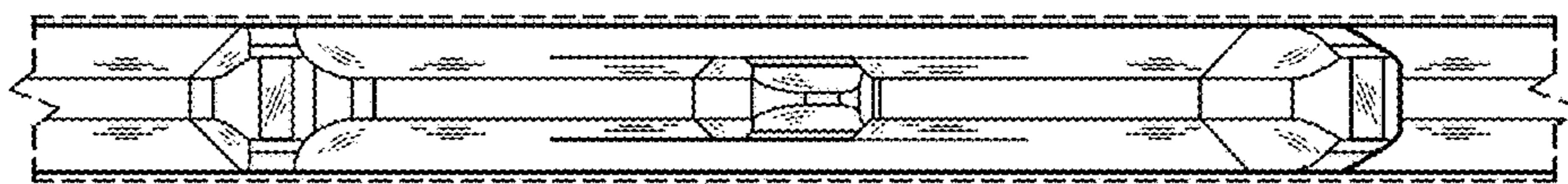


Fig. 5

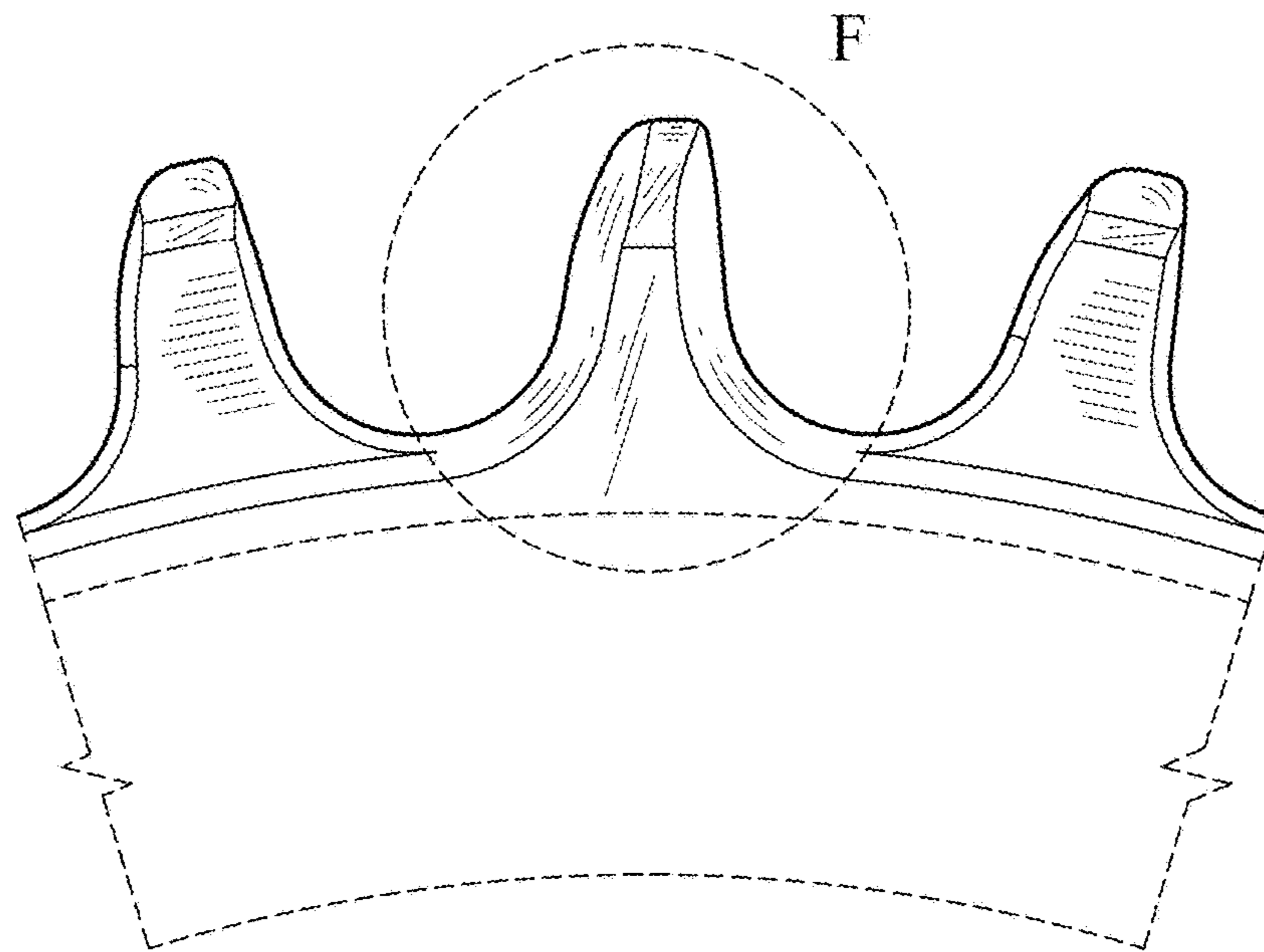


Fig. 6

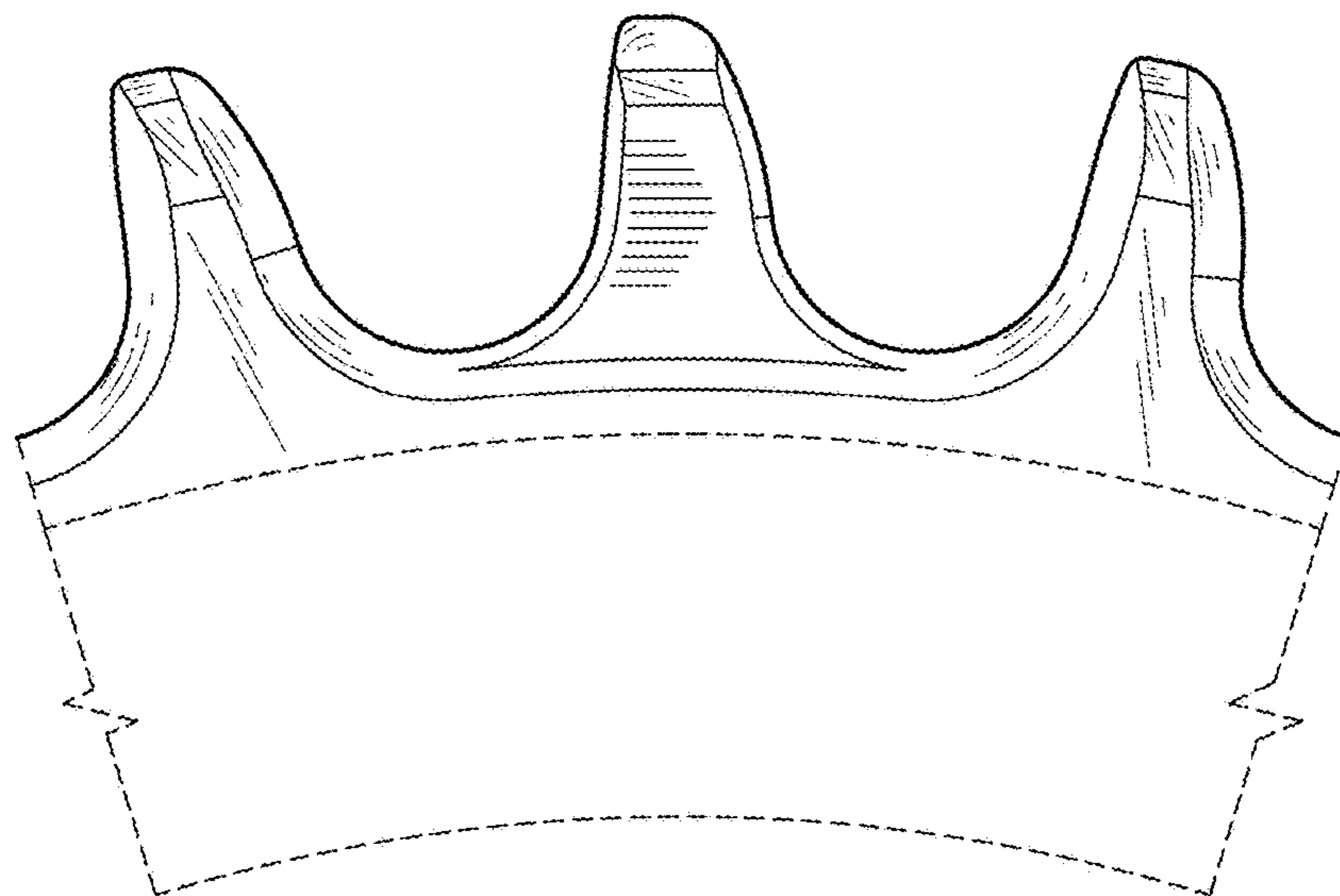


Fig. 7

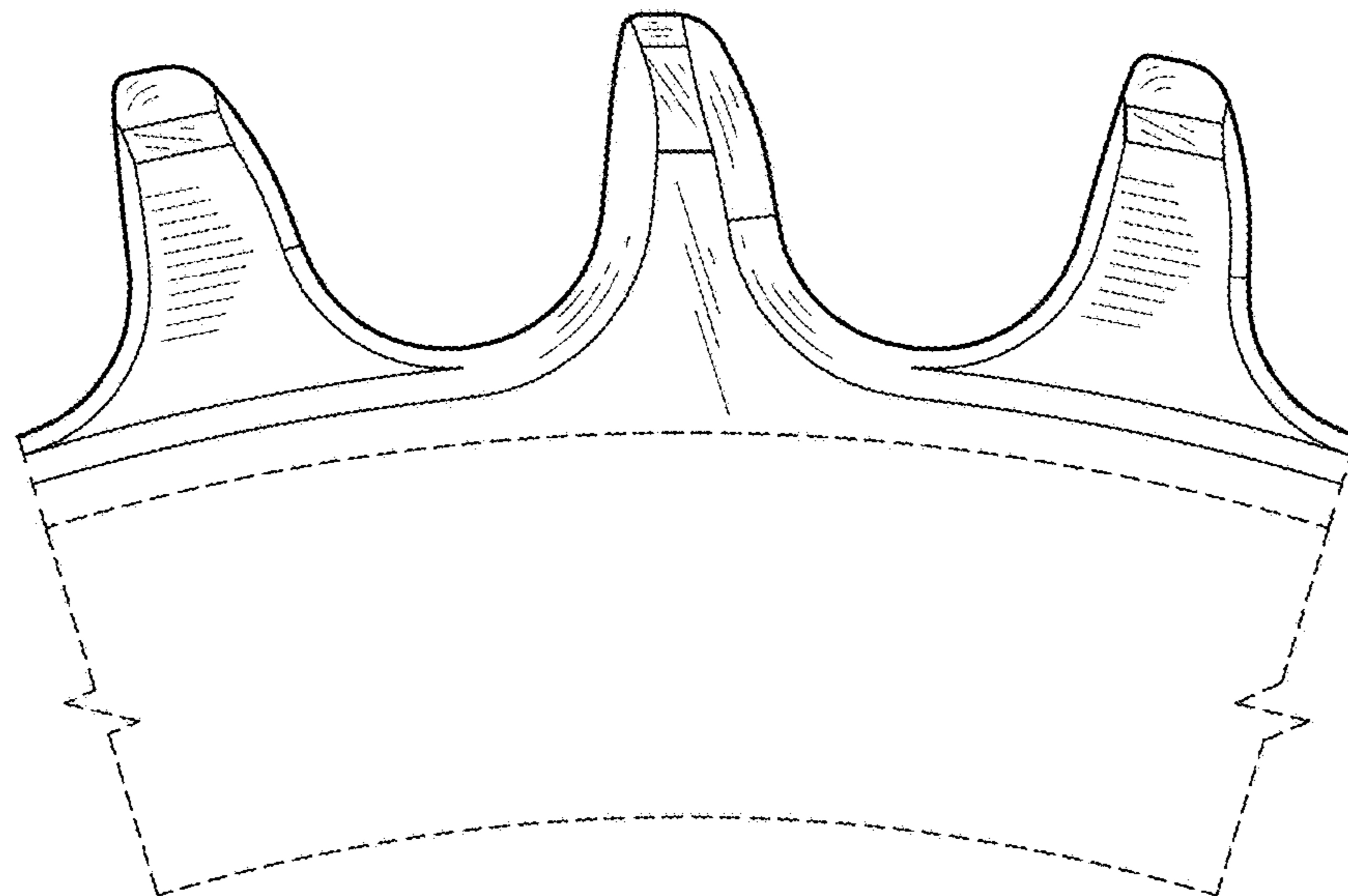


Fig. 8

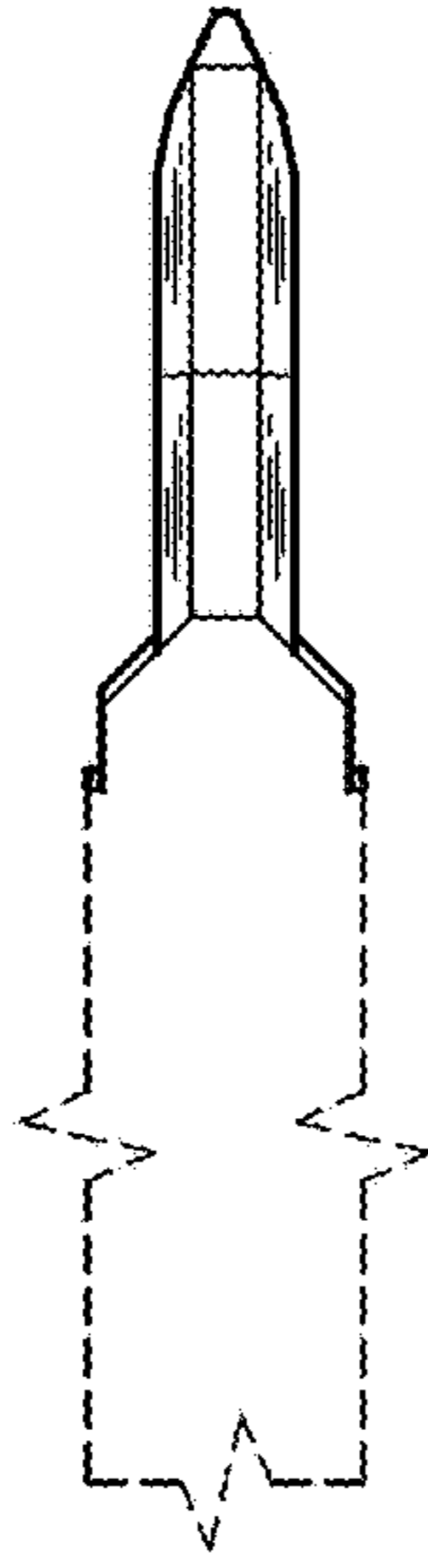


Fig. 9

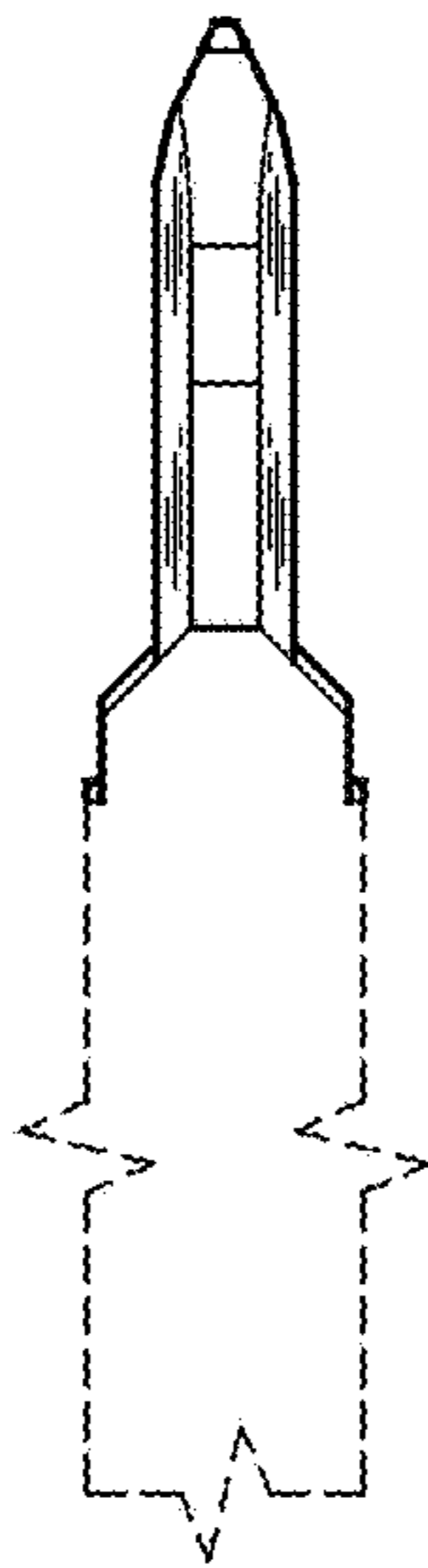


Fig. 10

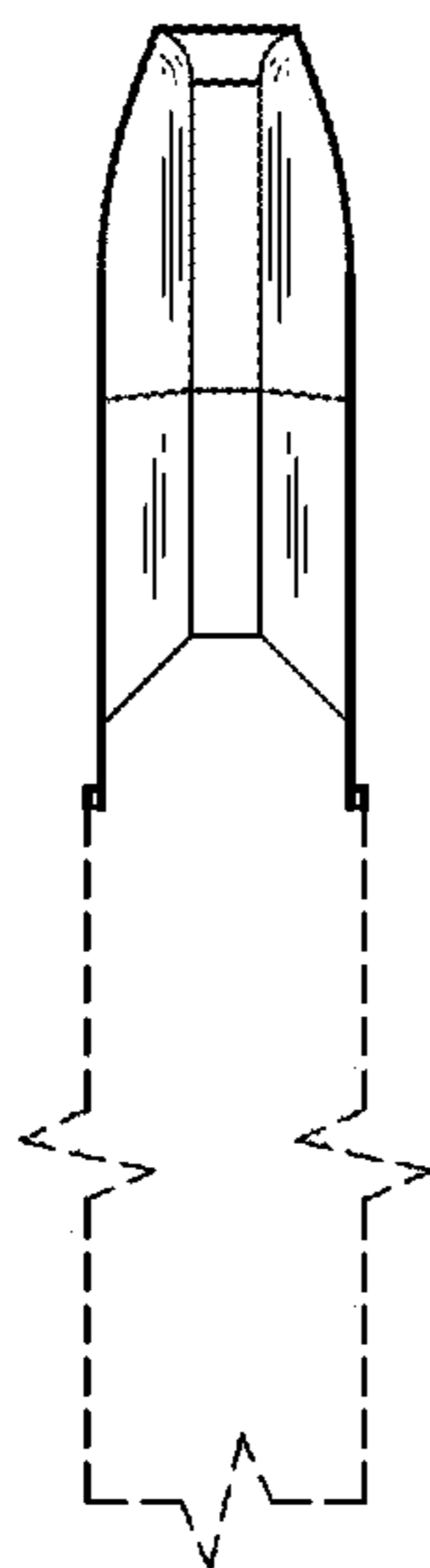


Fig. 11

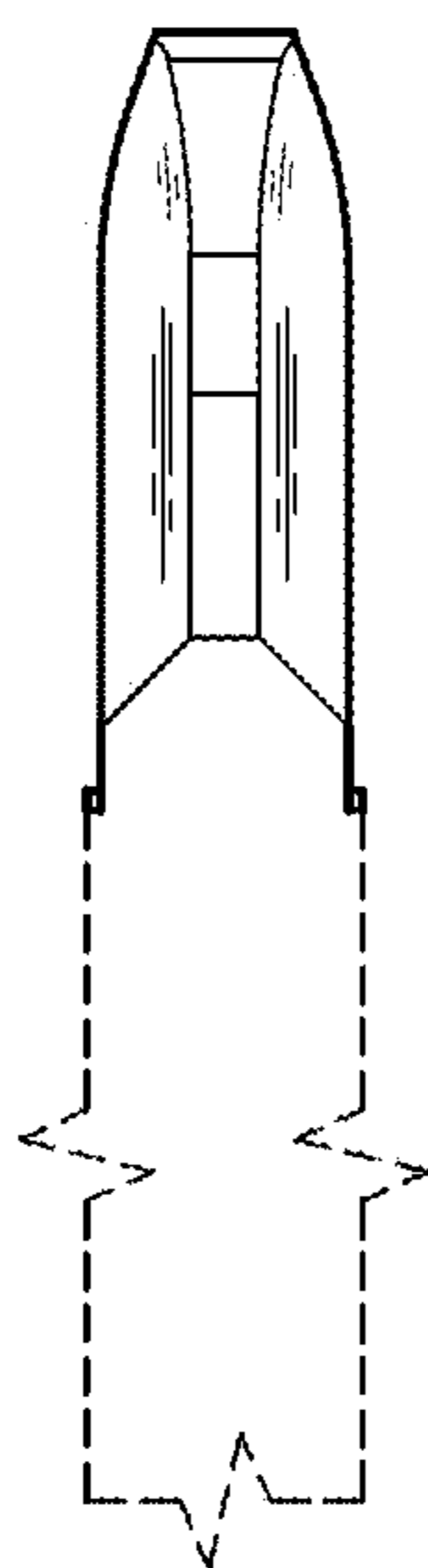


Fig. 12