



US00D915623S

(12) **United States Design Patent** (10) **Patent No.:** **US D915,623 S**  
**Foley et al.** (45) **Date of Patent:** **\*\* Apr. 6, 2021**

(54) **TWIST LOCK FOR A MULTI-POSITION LADDER**

(71) Applicant: **Tricam Industries, Inc.**, Eden Prairie, MN (US)

(72) Inventors: **Joseph P. Foley**, St. Paul, MN (US);  
**Benjamin P. Williams**, Chaska, MN (US)

(73) Assignee: **Tricam Industries, Inc.**, Eden Prairie, MN (US)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/705,500**

(22) Filed: **Sep. 12, 2019**

(51) **LOC (13) Cl.** ..... **25-04**

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

USPC ..... **D25/68**

(58) **Field of Classification Search**

USPC ..... D25/62–65, 68; 16/326, 329, 332;  
182/23, 194

CPC ..... E06C 1/32; E06C 7/16

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,566,150 A \* 1/1986 Boothe ..... E05D 11/1007

16/332

4,697,305 A \* 10/1987 Boothe ..... E06C 1/32

16/329

7,140,072 B2 \* 11/2006 Leng ..... E06C 1/32

16/326

D553,757 S \* 10/2007 Moss ..... D25/68

D631,562 S \* 1/2011 Han ..... D25/68

10,487,576 B2 \* 11/2019 Ballard ..... E06C 7/16

2004/0216954 A1 \* 11/2004 Lee ..... E06C 1/32

182/194

2005/0274571 A1 \* 12/2005 Simpson ..... E06C 7/083

182/23

\* cited by examiner

*Primary Examiner* — Gino Colan

(74) *Attorney, Agent, or Firm* — Patterson Thunte  
Pedersen, P.A.

(57) **CLAIM**

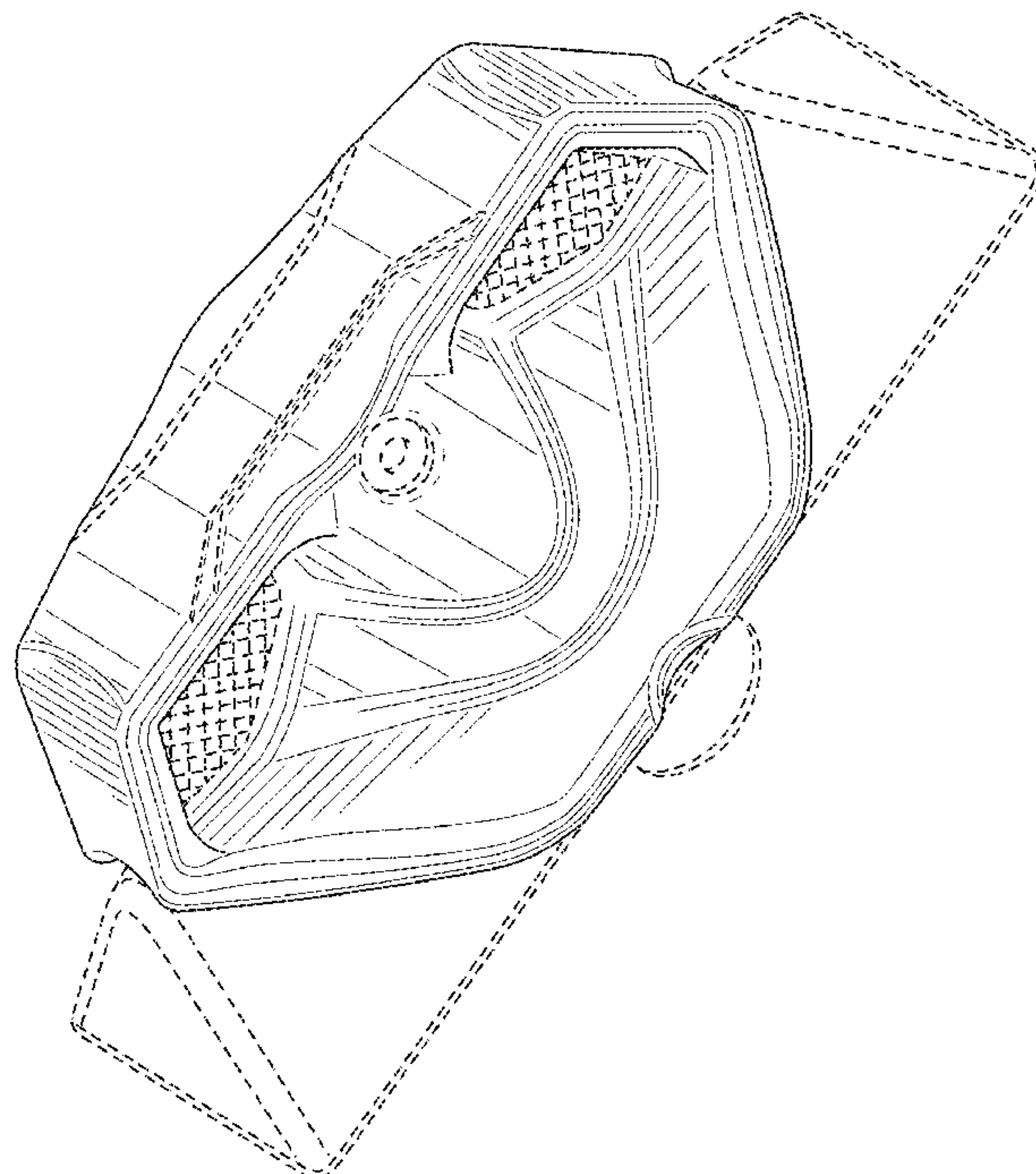
The ornamental design for twist lock for a multi-position ladder, as shown and described.

**DESCRIPTION**

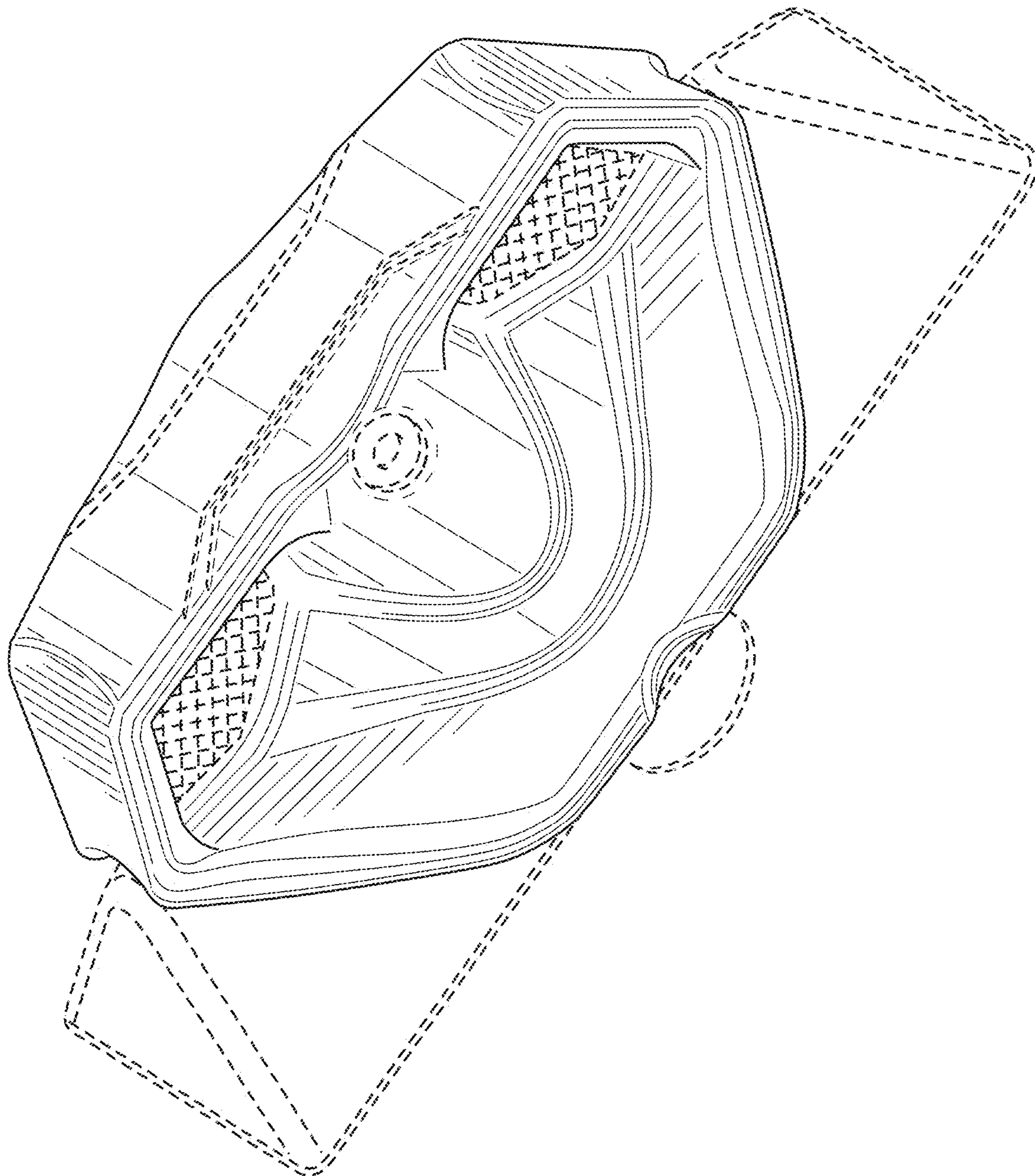
FIG. 1 is a perspective view of a twist lock for a multi-position ladder showing our new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a rear elevation view thereof;  
FIG. 4 is a left elevation view thereof;  
FIG. 5 is a right elevation view thereof;  
FIG. 6 is a top plan view thereof;  
FIG. 7 is a bottom plan view thereof; and,  
FIG. 8 is a perspective view thereof.

The broken lines shown in the figures are included for the purpose of illustrating portions of the twist lock for a multi-position ladder and form no part of the claimed design. The broken lines showing a portion of a ladder in FIG. 7 are for the purpose illustrating environment and form no part of the claimed design.

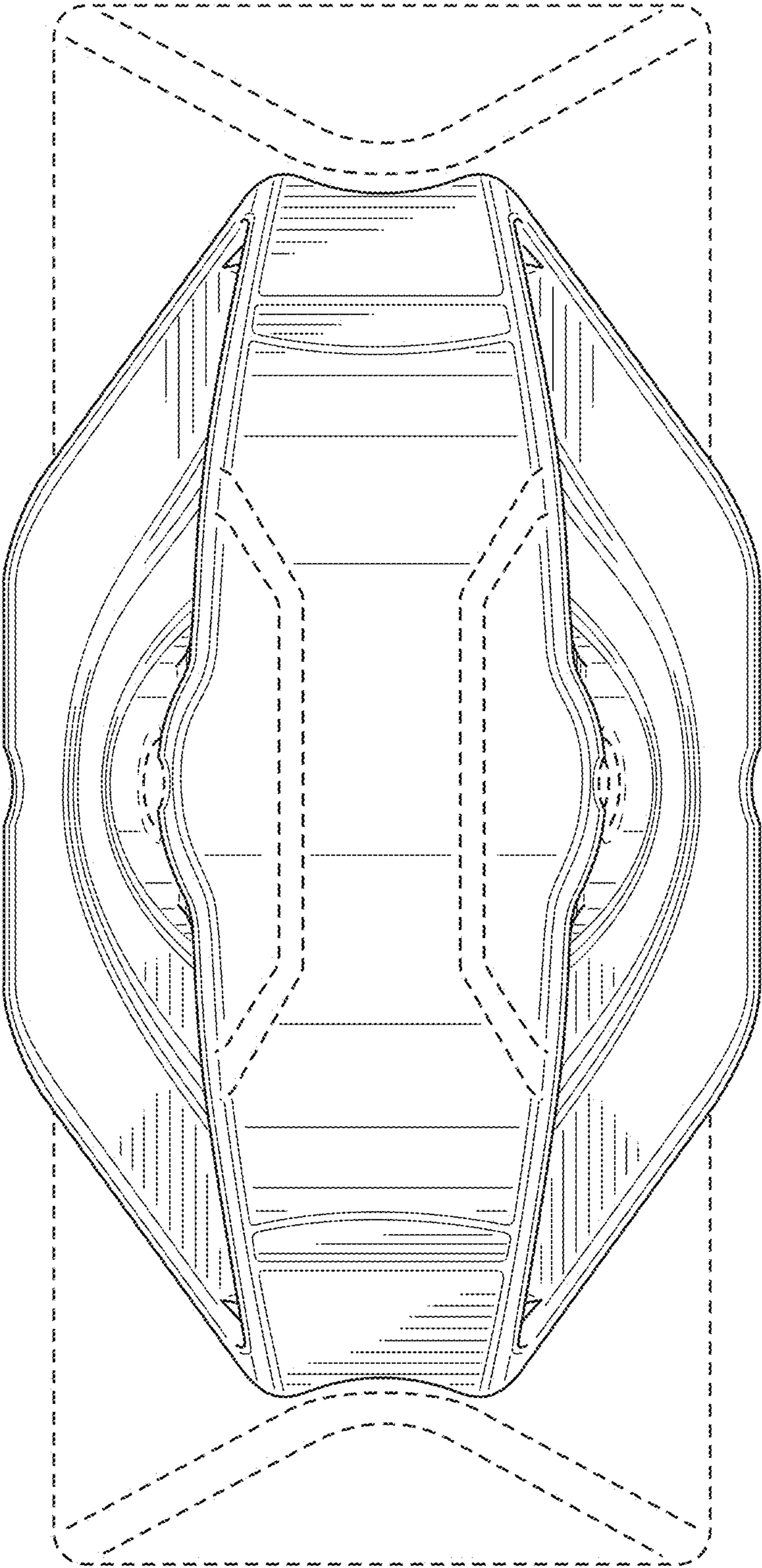
**1 Claim, 8 Drawing Sheets**



**FIG. 1**

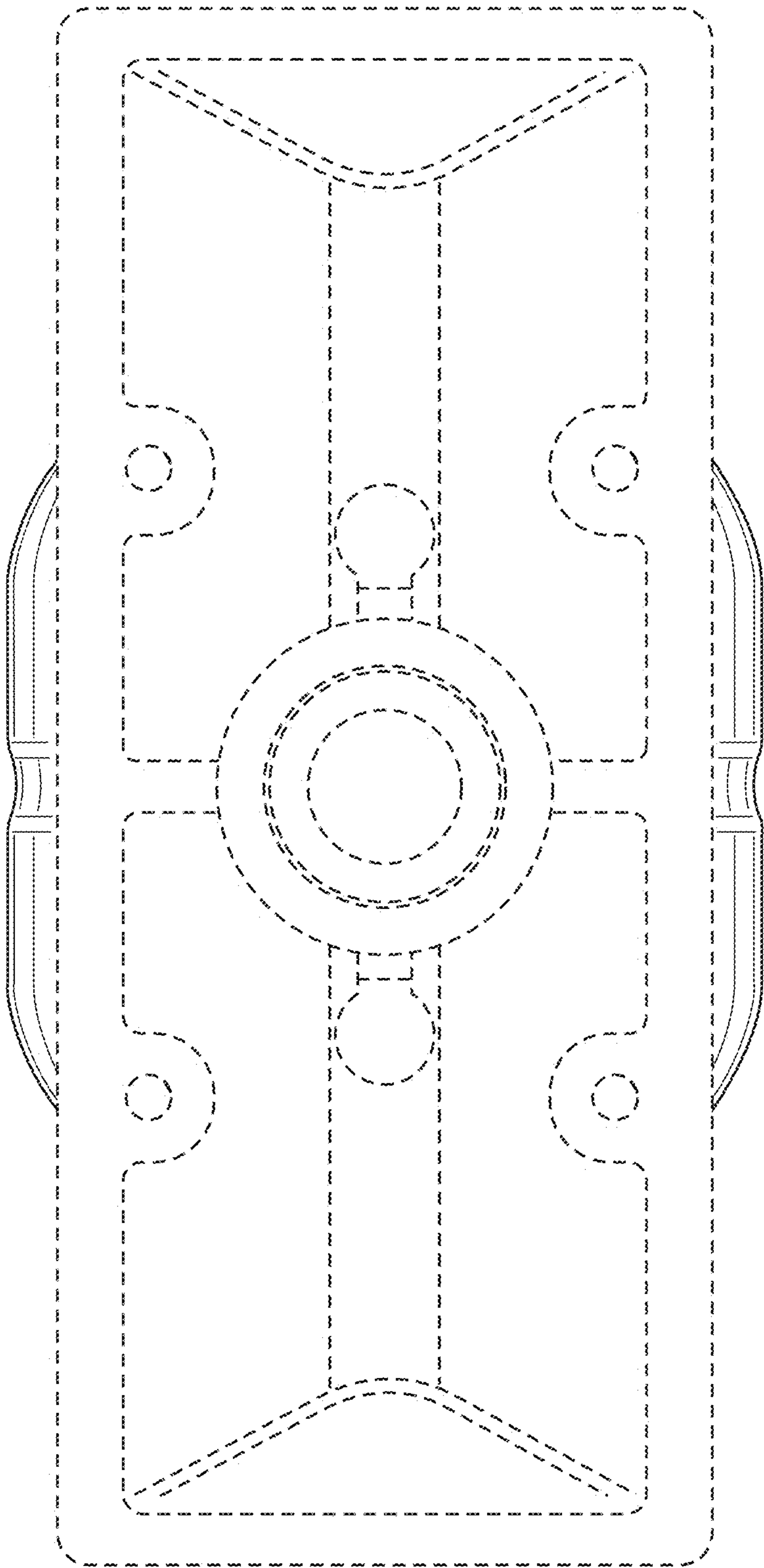


**FIG. 2**

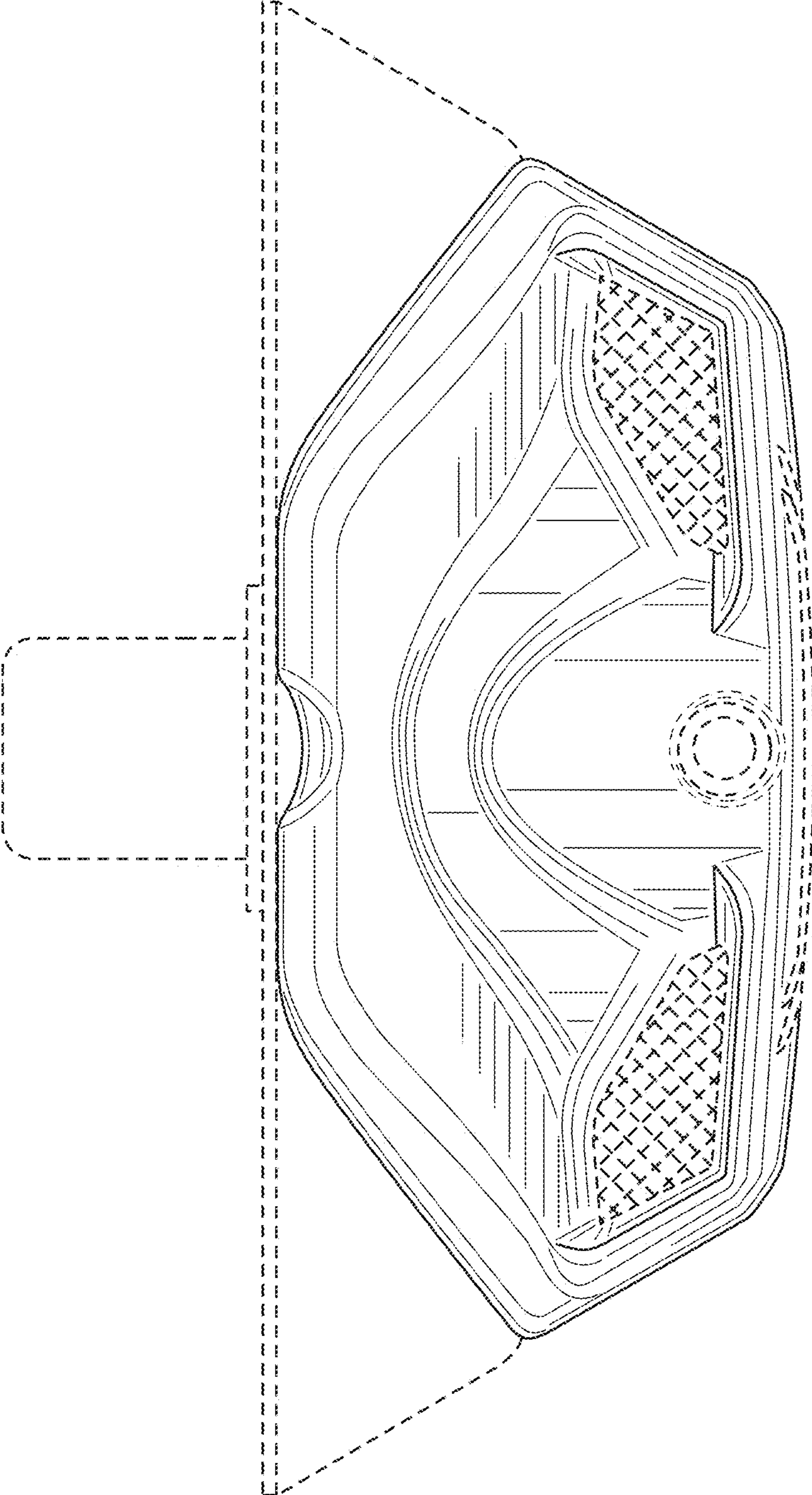




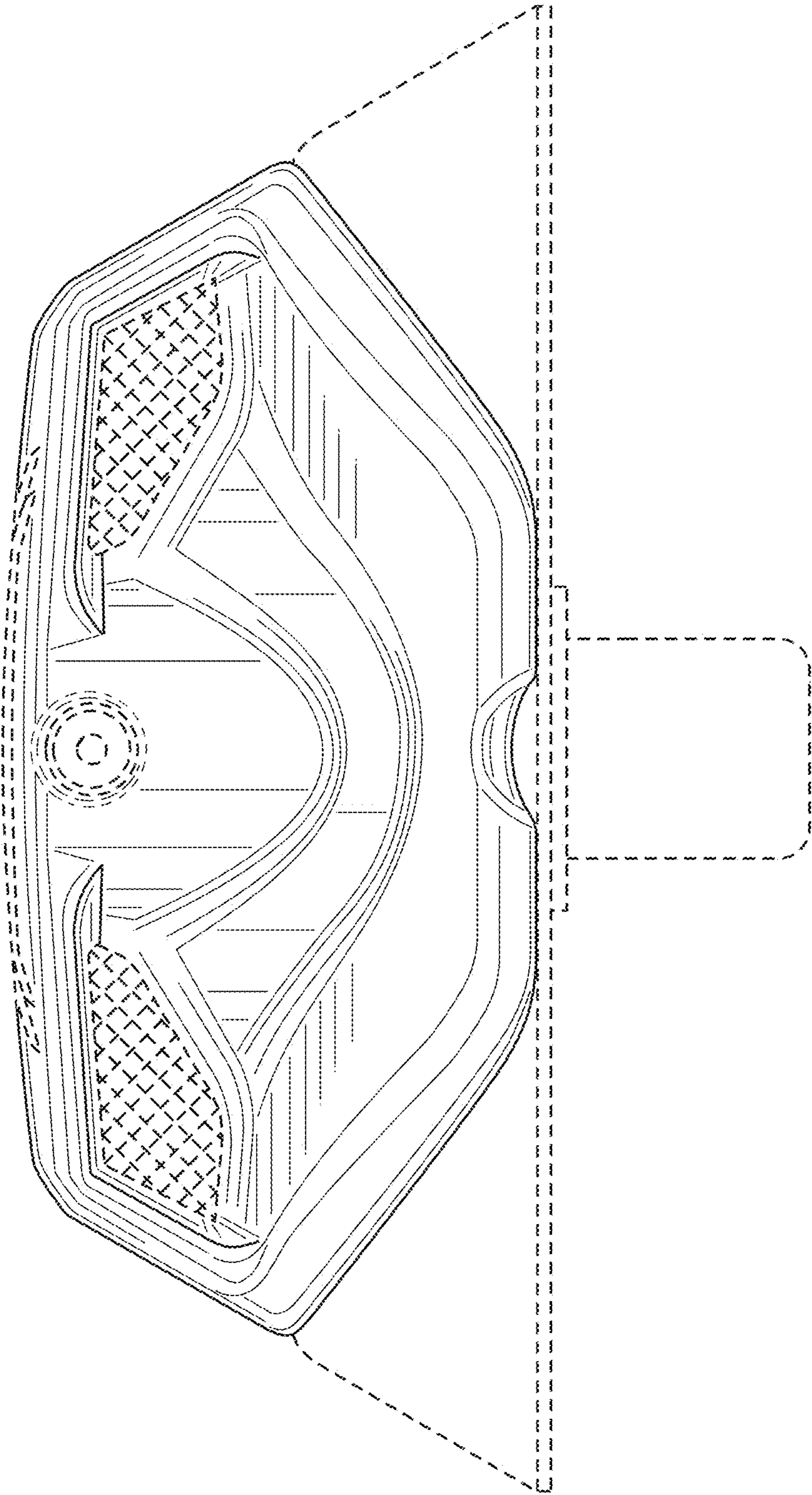
**FIG. 3**



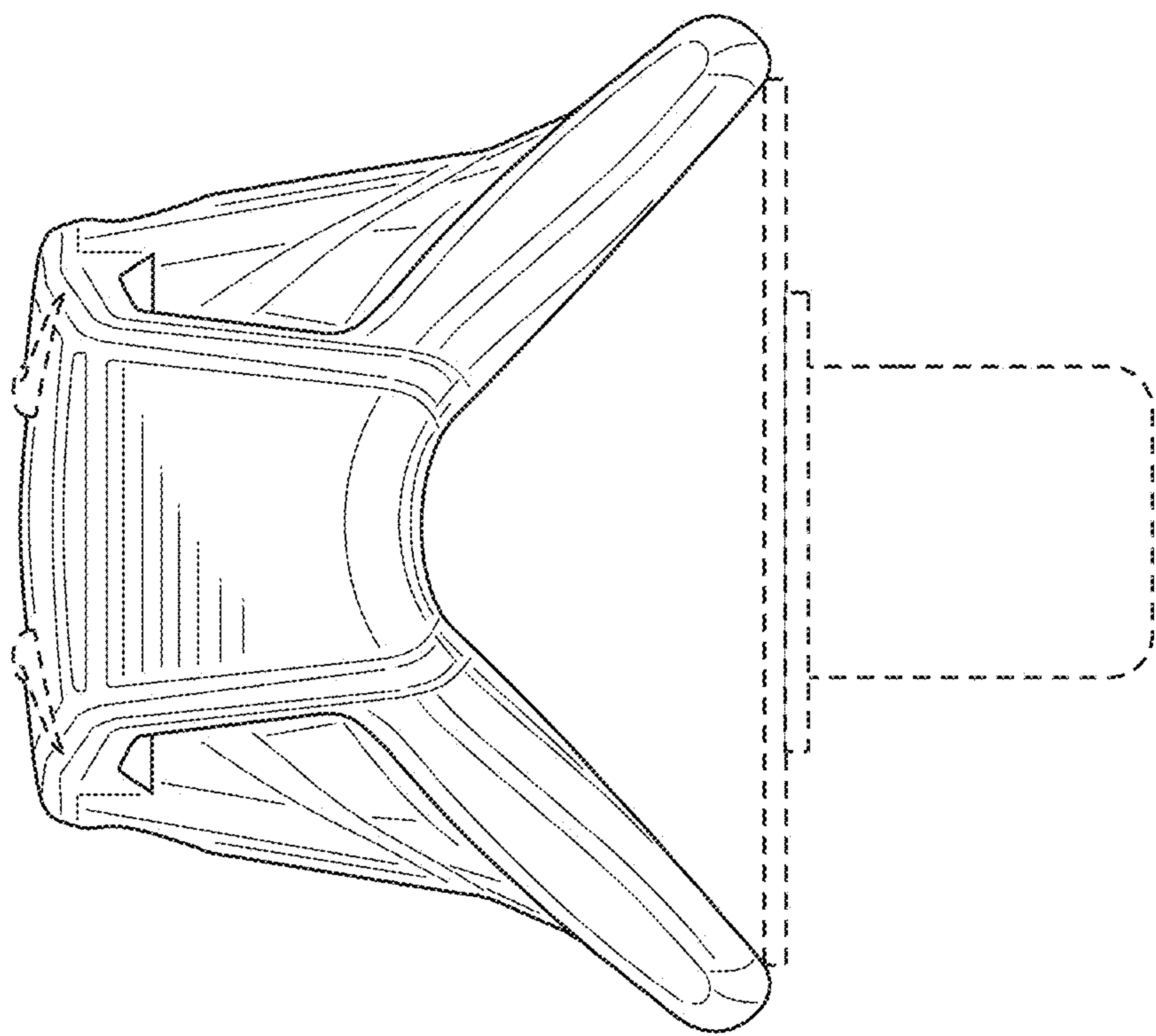
**FIG. 4**



**FIG. 5**

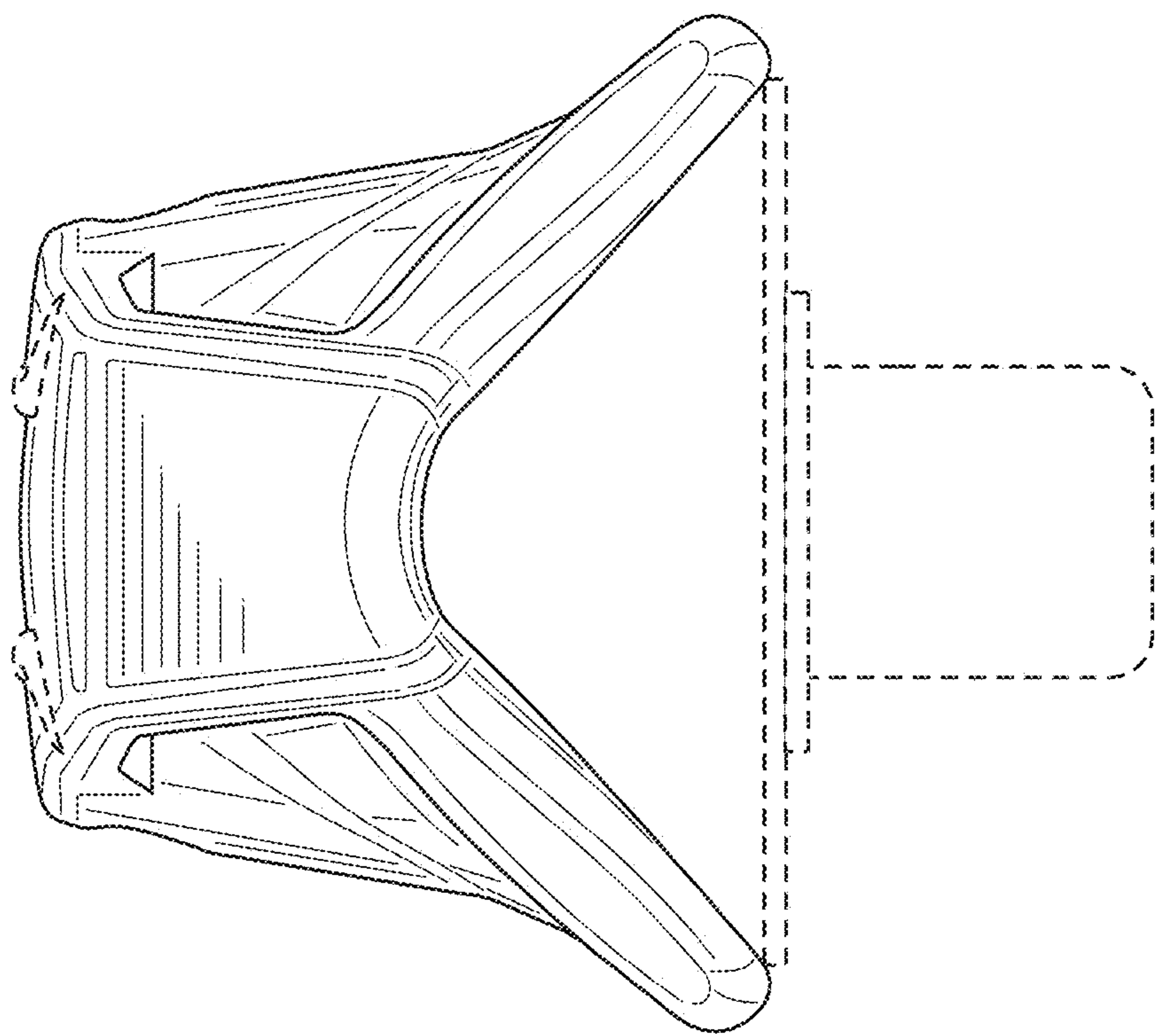


**FIG. 6**



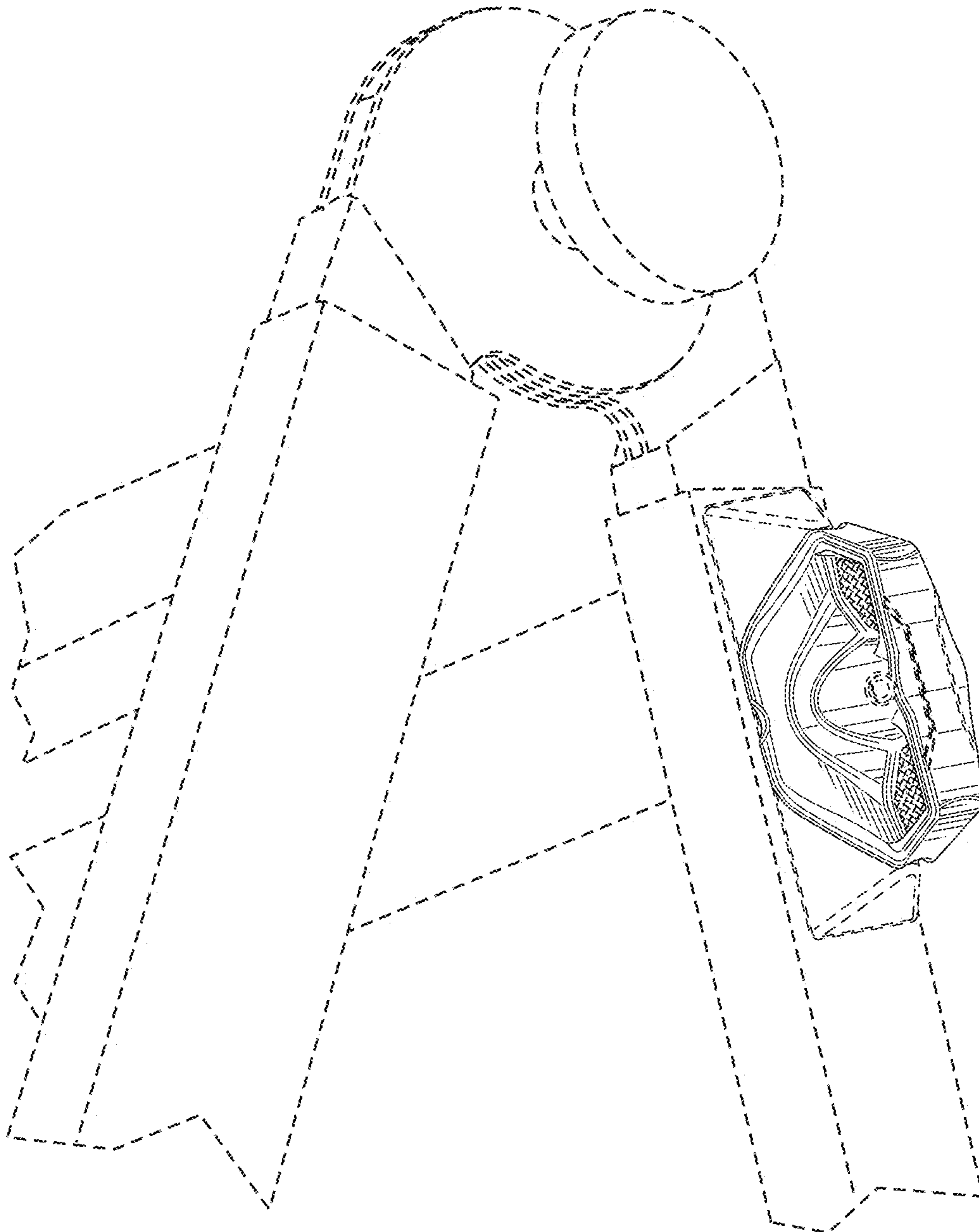


**FIG. 7**





**FIG. 8**



(12) **SUPPLEMENTAL EXAMINATION CERTIFICATE**

**United States Patent**  
**Foley et al.**

(10) **Number:** **D915,623 F1**  
(45) **Certificate Issued:** **Jan. 3, 2023**

---

**Control No.: 96/050,008**

**Filing Date: Oct. 21, 2022**

**Primary Examiner: Brett Miller**

No substantial new question of patentability is raised in the request for supplemental examination. See the Reasons for Substantial New Question of Patentability Determination in the file of this proceeding.

**(56) Items of Information**

**U.S. PATENT DOCUMENTS**

10,767,416	9/2020	Moss et al.
7,412,753	8/2008	Honda Motor Co., Ltd.
7,975,359	7/2011	Osborne et al.
7,198,306	4/2007	Ambs
5,586,852	12/1996	Ganter

**OTHER DOCUMENTS**

Little Giant Ladder System – 81282 v1 7.15 manual, , trestle brackets, rapid locks - rock locks; copyright2015

Little Giant Ladder System – 81306 v0 9.15 manual, , quantum step, eng; copyright 2015

Little Giant Ladder System – 81308 v1 8.15 manual, Quantum Ratchet Levelers; copyright 2015

Pro Tools Reviews Little Giant Leveler Ladder Review on Pro Tool Reviews authored by Kenny Koehler;<https://www.protoolreviews.com/little-giant-leveler-ladder-review>; dated April 16, 2018