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(12) **United States Design Patent** (10) **Patent No.:** **US D981,323 S**
Taylor (45) **Date of Patent:** **** Mar. 21, 2023**

(54) **WING STRUCTURE**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Wind Craft Aviation Inc.**, Lowell, MI (US)

EP 3444192 A1 * 2/2019 B64C 1/38
EP 4036003 A1 * 8/2022 B64C 23/08
GB 2587429 A * 3/2021 B64C 23/065
WO WO-2022053984 A1 * 3/2022
WO WO-2022061021 A1 * 3/2022 B64C 29/0033

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OTHER PUBLICATIONS

(73) Assignee: **Wind Craft Aviation Inc.**, Lowell, MI (US)

“Artistic view of the studied Box Wing (PrandtlPlane), rearranged from [16].” researchgate.net, post Published Oct. 2017. Retrieved Nov. 1, 2022. Available online at URL:.,https://www.researchgate.net/figure/Artistic-view-of-the-studied-Box-Wing-PrandtlPlane-rearranged-from-16_fig1_320538839 (Year: 2017).*

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

* cited by examiner

(21) Appl. No.: **29/750,242**

(22) Filed: **Sep. 11, 2020**

(51) **LOC (14) Cl.** **12-07**

Primary Examiner — Christian P. McLean

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

Assistant Examiner — Jessica Lynn Devilbiss

USPC **D12/345**; D21/436

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(58) **Field of Classification Search**

USPC D12/345, 326, 319; D21/436

CPC B64C 39/06; B64C 3/16; B64C 15/12;

B64C 1/40

(57) **CLAIM**

I claim the ornamental design for a wing structure, as shown and described.

See application file for complete search history.

DESCRIPTION

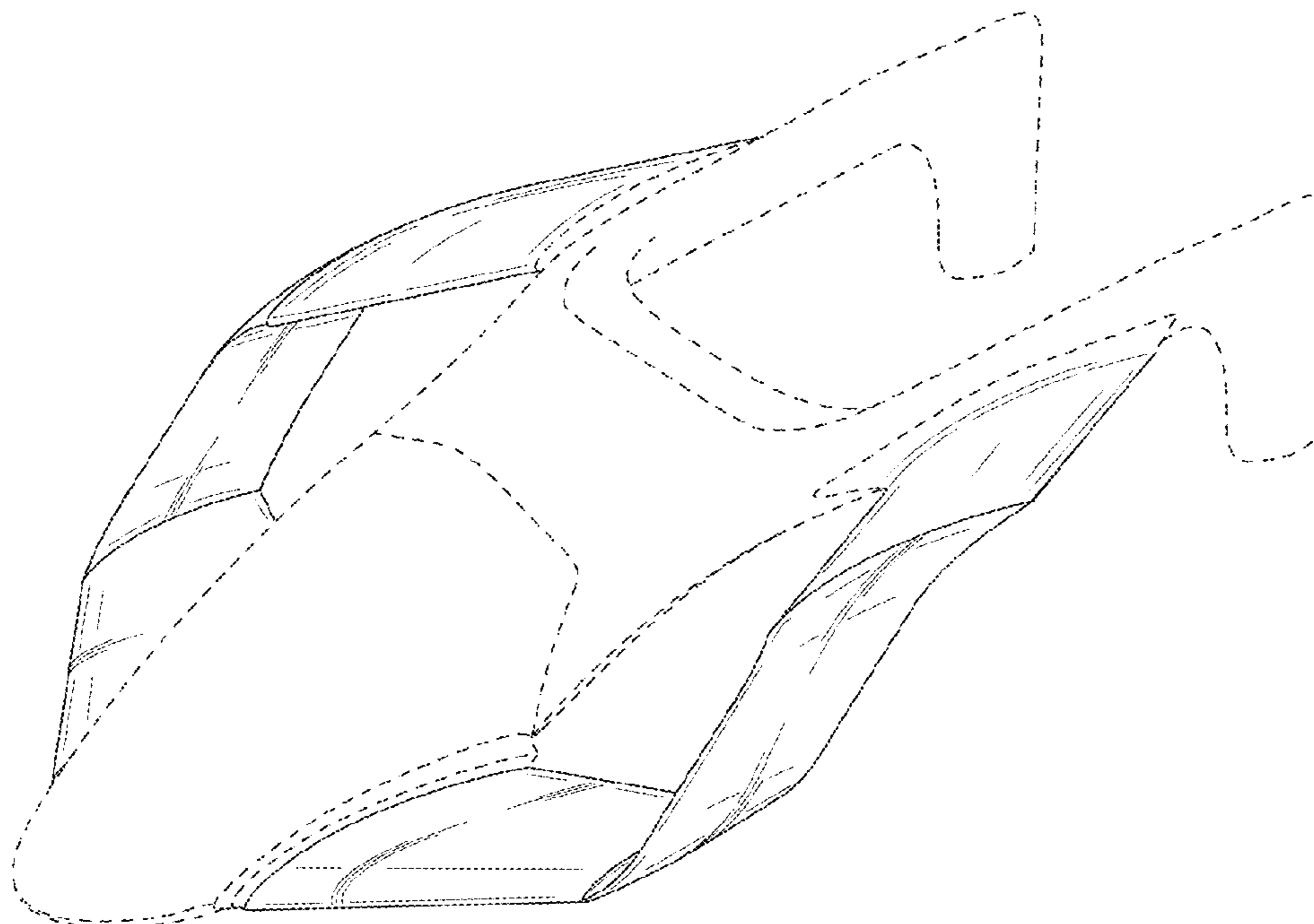
(56) **References Cited**

U.S. PATENT DOCUMENTS

D170,193 S * 8/1953 Green D12/345
D292,910 S * 11/1987 McGiboney D12/342
D384,322 S * 9/1997 Vanderhoof D12/345
D486,776 S * 2/2004 Carr D12/319
D598,838 S * 8/2009 Carr D12/319
D843,304 S * 3/2019 MacAndrew D12/319
D920,214 S * 5/2021 Oliveira D12/340
D947,749 S * 4/2022 Ahlstrom D12/345
D957,306 S * 7/2022 Zaneboni D12/345

FIG. 1 is a top perspective view of a wing structure;
FIG. 2 is a bottom perspective view of the wing structure;
FIG. 3 is front elevation view of the wing structure;
FIG. 4 is a rear elevation view of the wing structure;
FIG. 5 is a right side elevation view of the wing structure;
FIG. 6 is a left side elevation view of the wing structure;
FIG. 7 is a top plan view of the wing structure; and,
FIG. 8 is a bottom plan view of the wing structure.
The broken lines are environmental only and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



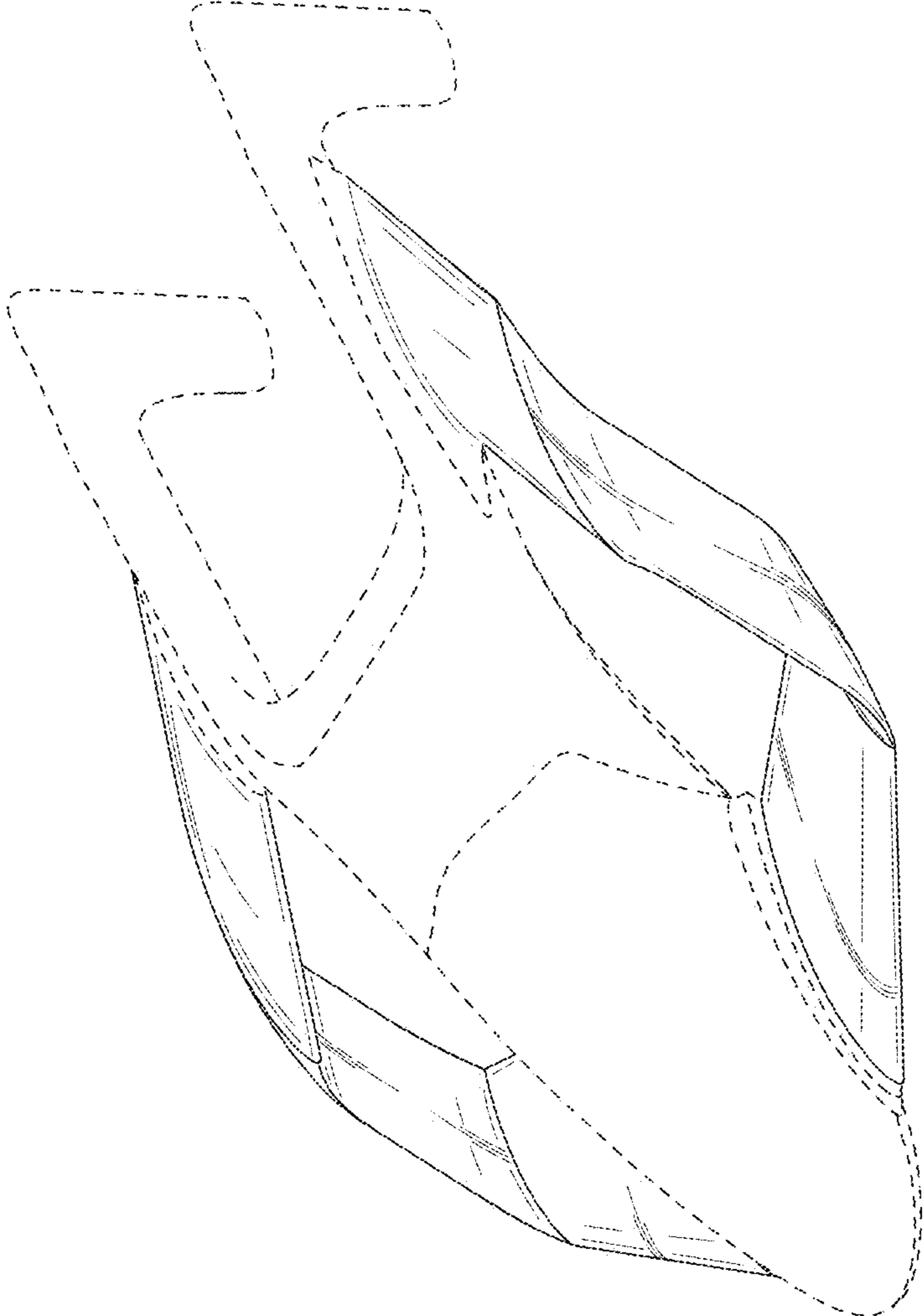


FIG. 1

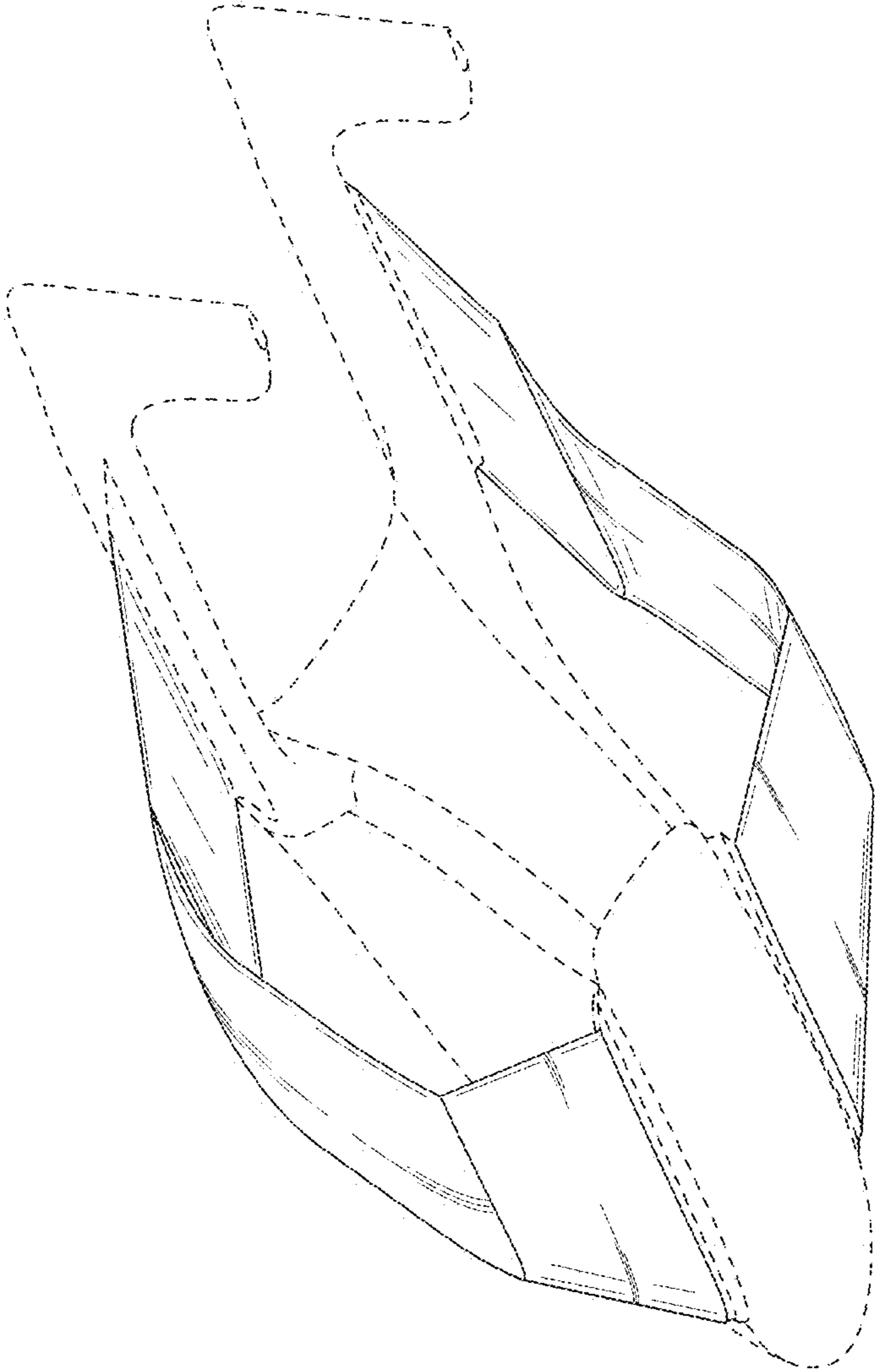


FIG. 2

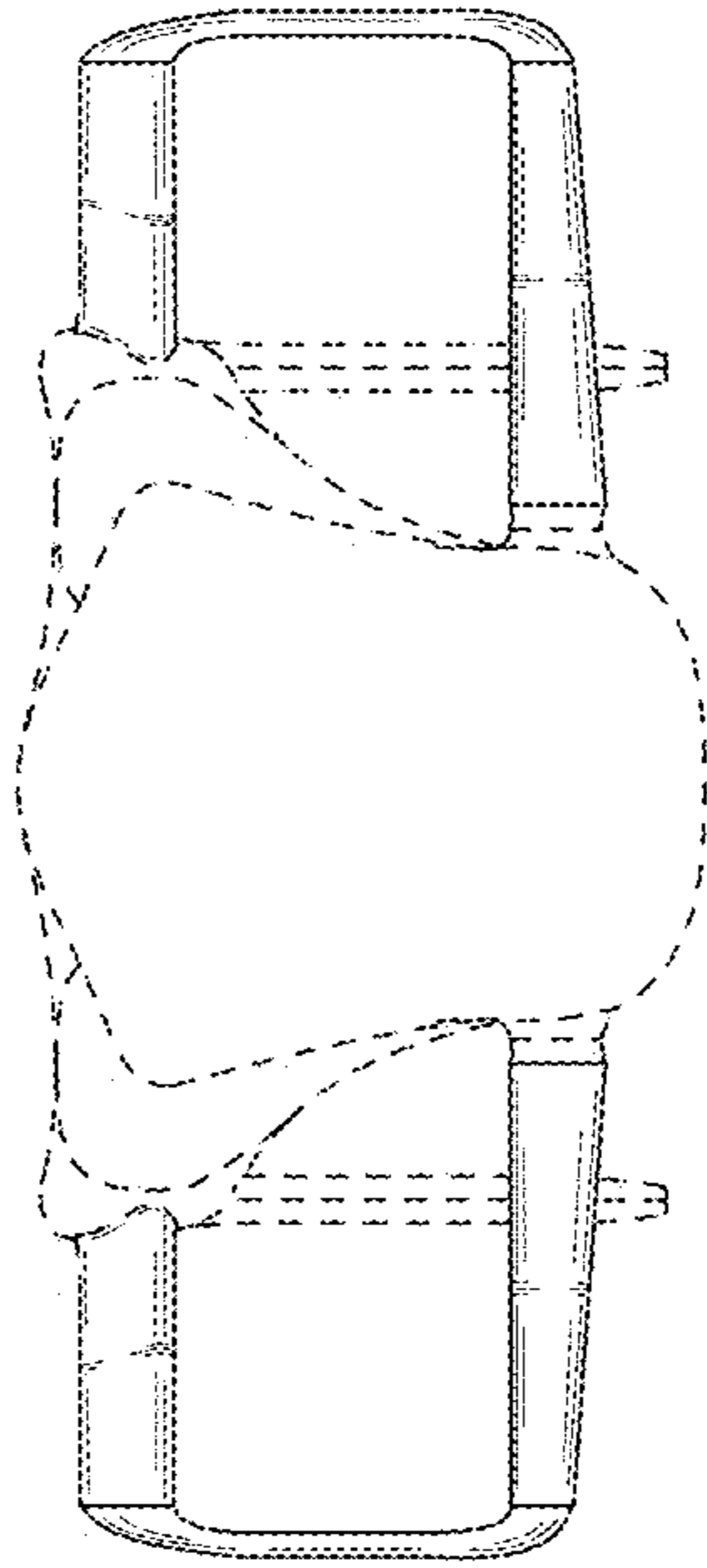


FIG. 3

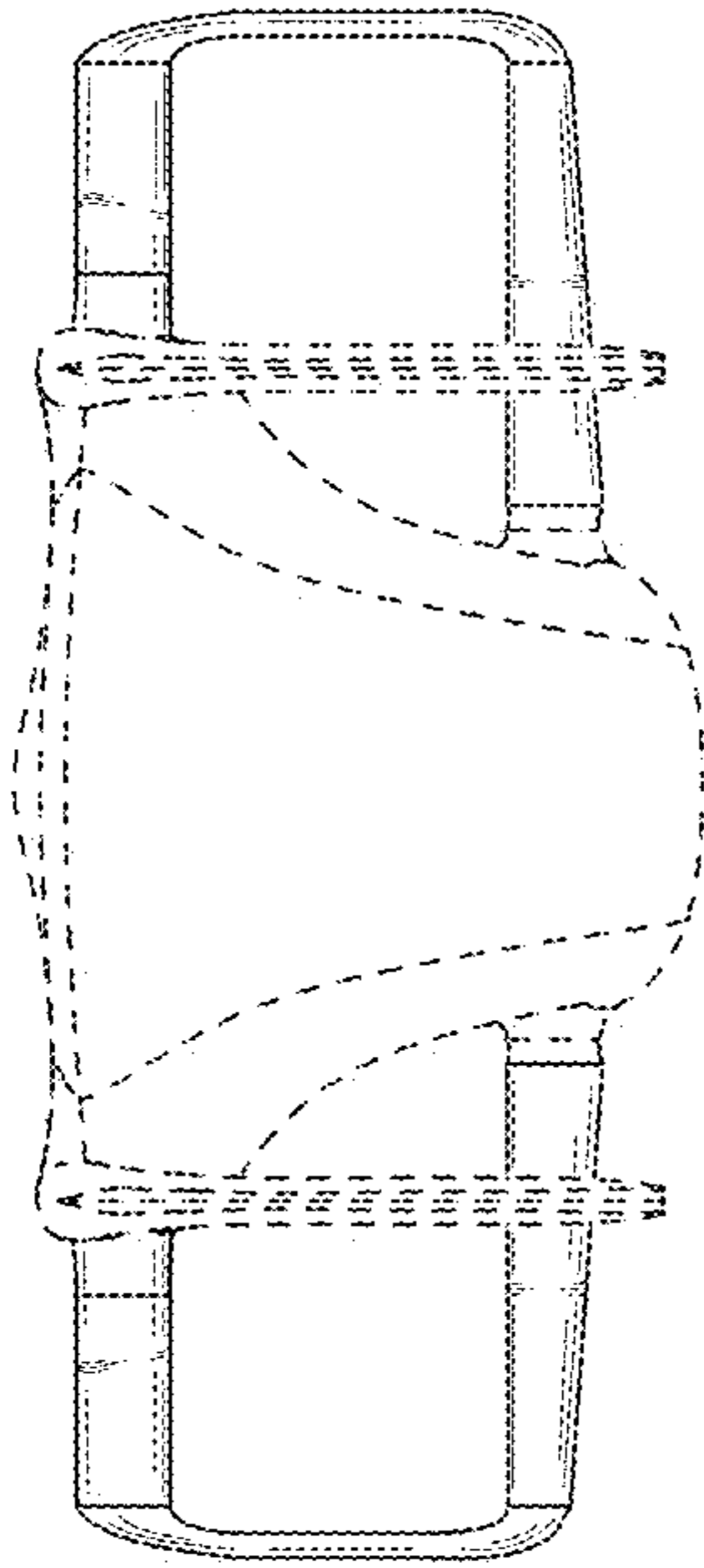


FIG. 4

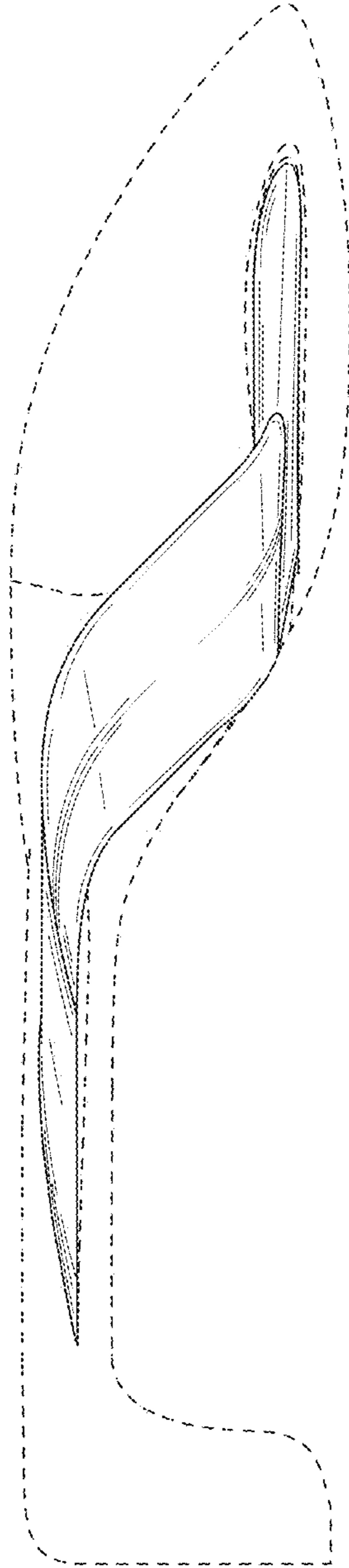


FIG. 5

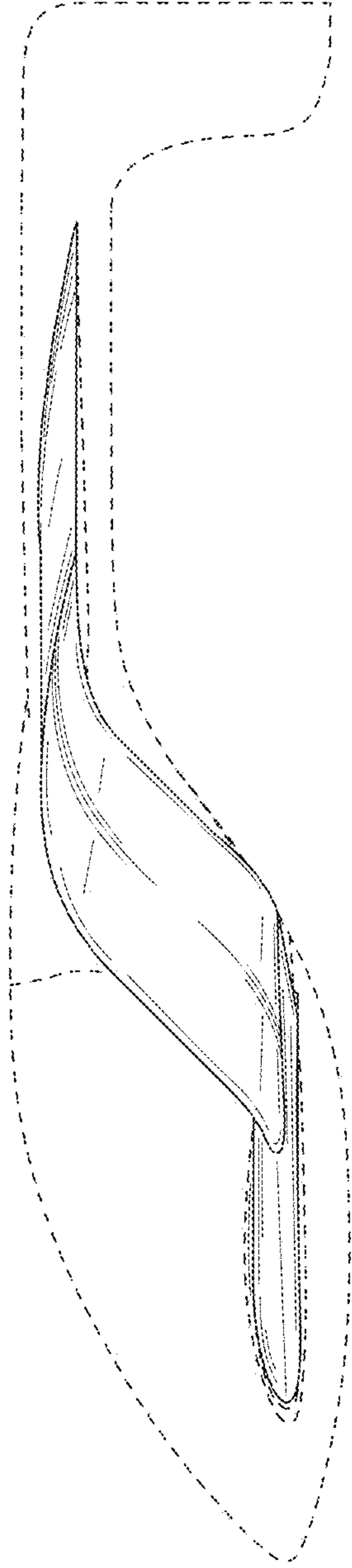


FIG. 6

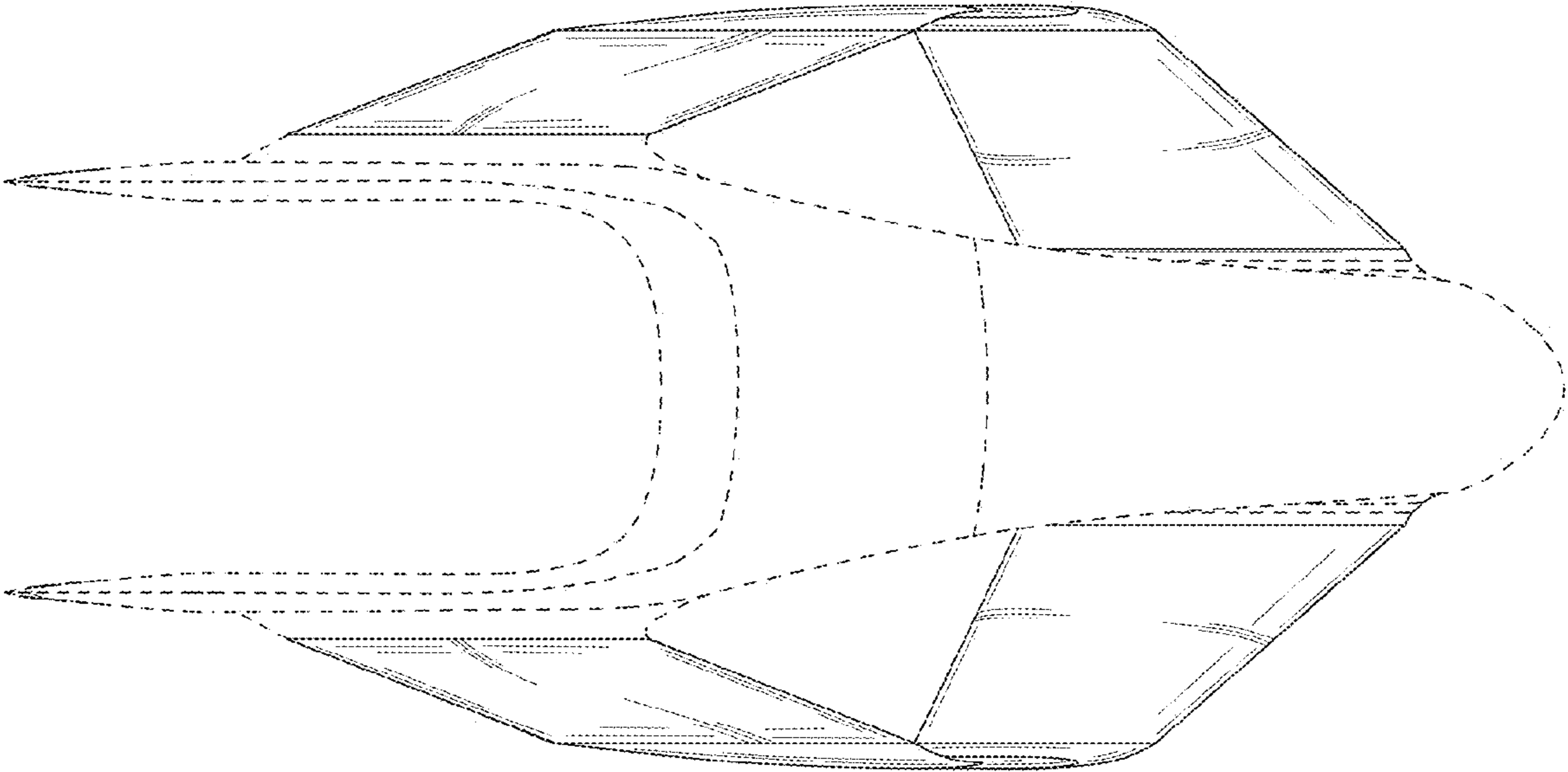


FIG. 7

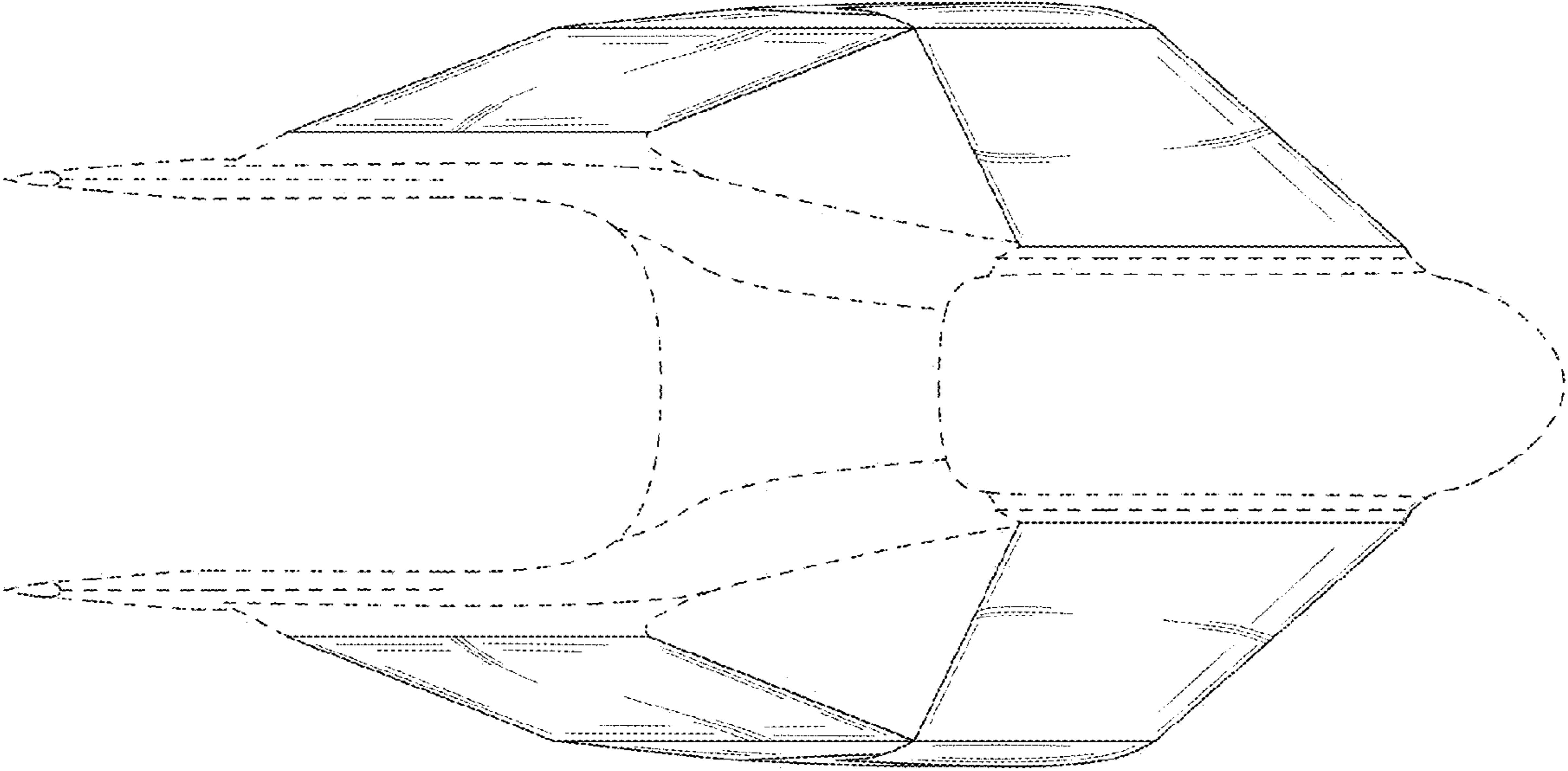


FIG. 8