



US00D989592S

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

(10) **Patent No.:** **US D989,592 S**

(45) **Date of Patent:** **\*\* Jun. 20, 2023**

(54) **KNIFE SHARPENER**

(71) Applicant: **YANGJIANG YANGDONG ZAFIRA ENTERPRISE CO., LTD.**, Yangjiang (CN)

(72) Inventor: **Guozhong Chen**, Yangjiang (CN)

(73) Assignee: **YANGJIANG YANGDONG ZAFIRA ENTERPRISE CO., LTD.**, Yangjiang (CN)

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

(21) Appl. No.: **29/813,102**

(22) Filed: **Oct. 26, 2021**

(30) **Foreign Application Priority Data**

May 24, 2021 (CN) ..... 202130312133.3

(51) **LOC (14) Cl.** ..... **08-05**

(52) **U.S. Cl.**  
USPC ..... **D8/93**

(58) **Field of Classification Search**  
USPC ..... D8/63, 90, 91, 92, 93  
CPC .... B24B 3/54; B24B 3/36; B24B 3/58; B24B 3/00; B24B 23/08; B24D 15/00; B24D 15/06; B24D 15/063; B24D 15/08; B24D 15/081

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,502,254 A \* 3/1985 Carter ..... B24D 15/081  
451/555  
D470,382 S \* 2/2003 Kurz ..... D8/93

D640,523 S \* 6/2011 Stutz ..... D8/93  
D640,909 S \* 7/2011 Stutz ..... D8/93  
D680,846 S \* 4/2013 Smith ..... D8/93  
D763,650 S \* 8/2016 Severinson ..... D8/93  
D773,913 S \* 12/2016 Severinson ..... D8/93  
D876,199 S \* 2/2020 Zhu ..... D8/93  
D924,652 S \* 7/2021 Guo ..... D8/93  
D928,581 S \* 8/2021 Hong ..... D8/93  
D929,200 S \* 8/2021 Huagn ..... D8/93  
D962,033 S \* 8/2022 Li ..... D8/93  
D967,688 S \* 10/2022 Li ..... D8/93

\* cited by examiner

*Primary Examiner* — Philip S Hyder

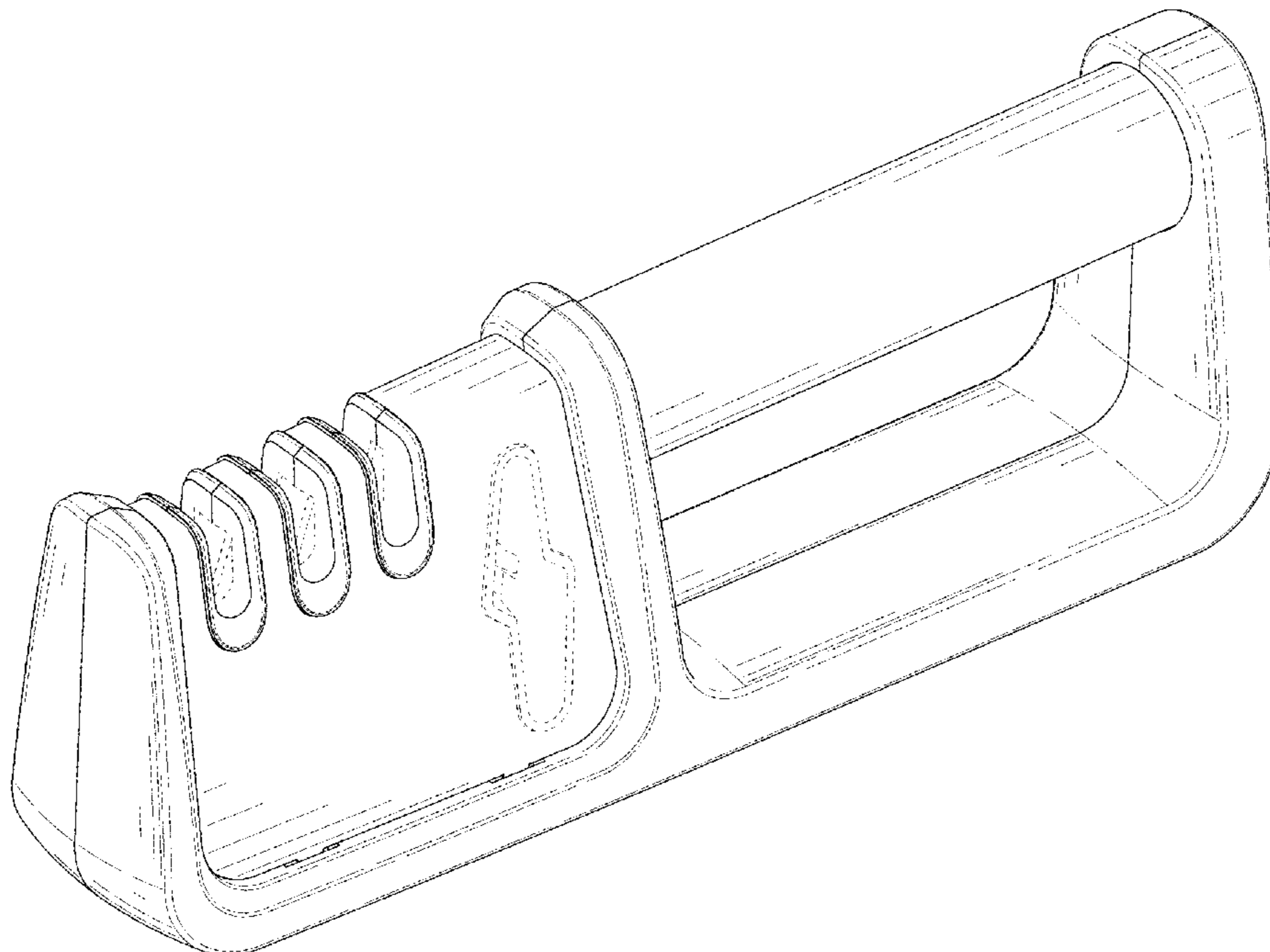
(57) **CLAIM**

The ornamental design for a knife sharpener, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a knife sharpener showing my new design;  
FIG. 2 is another perspective view thereof;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a rear elevational view thereof;  
FIG. 5 is a left side elevational view thereof;  
FIG. 6 is a right side elevational view thereof;  
FIG. 7 is a top plan view thereof; and,  
FIG. 8 is a bottom plan view thereof.  
The broken lines in the drawings depict portions of the knife sharpener that form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



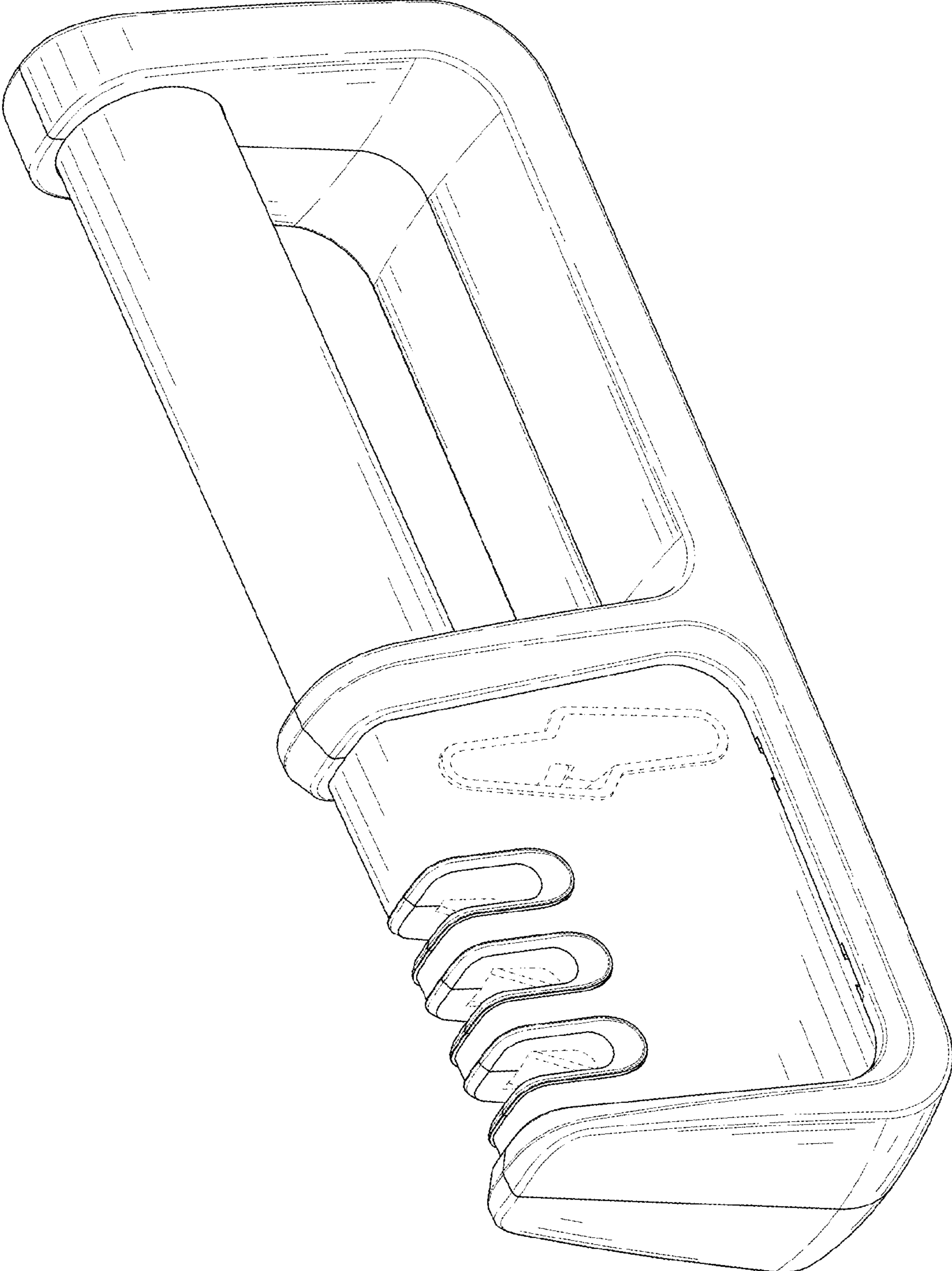


FIG. 1

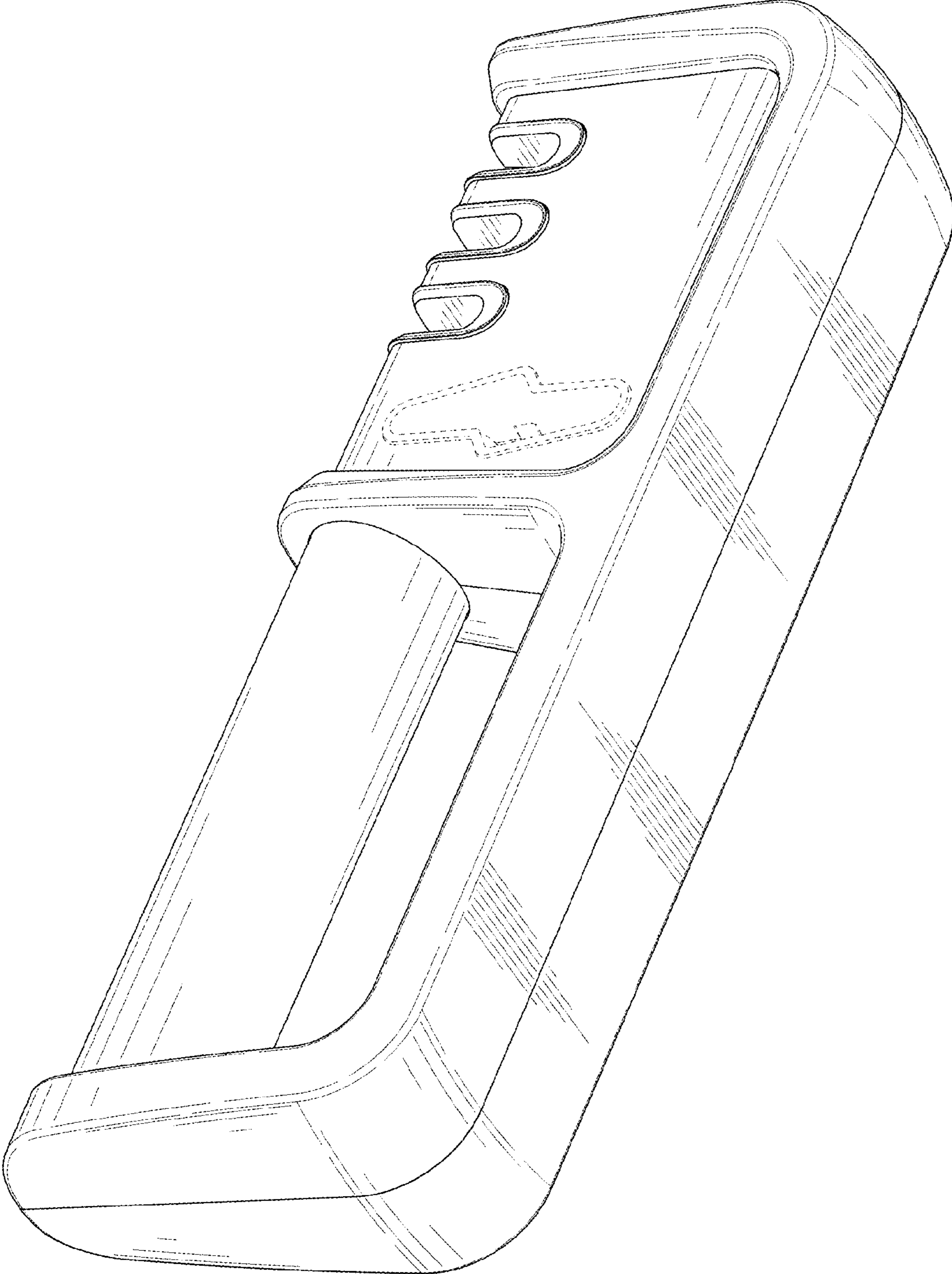


FIG. 2

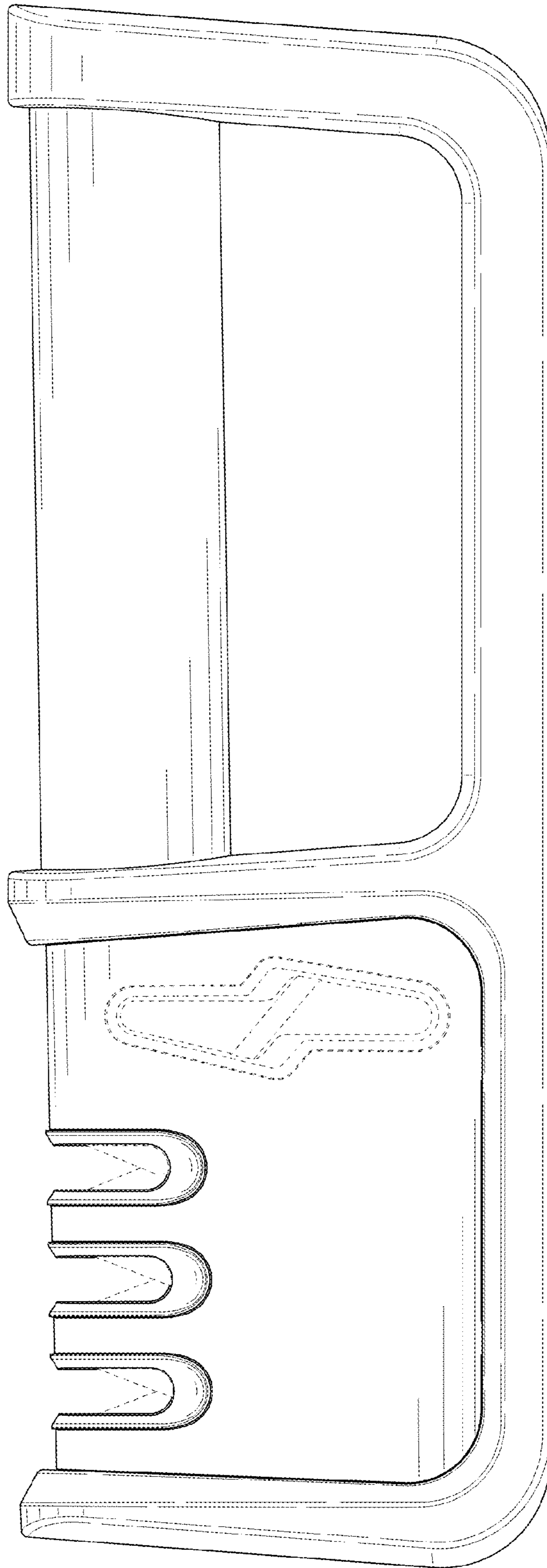


FIG. 3

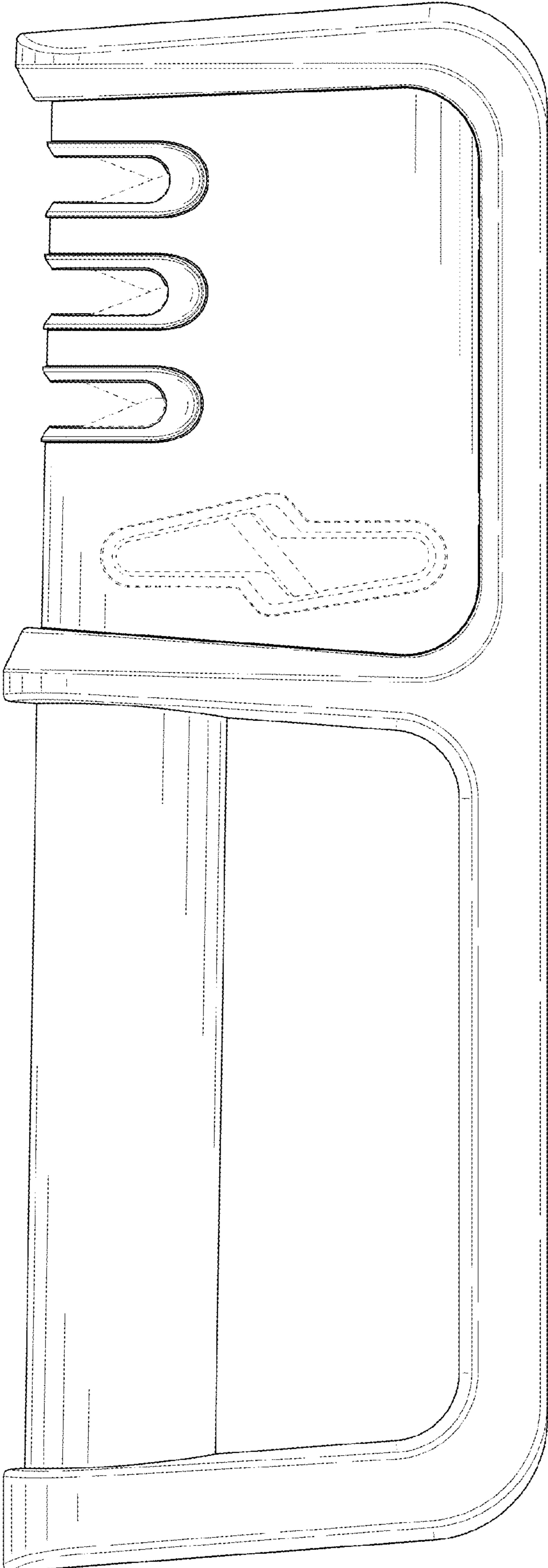


FIG. 4

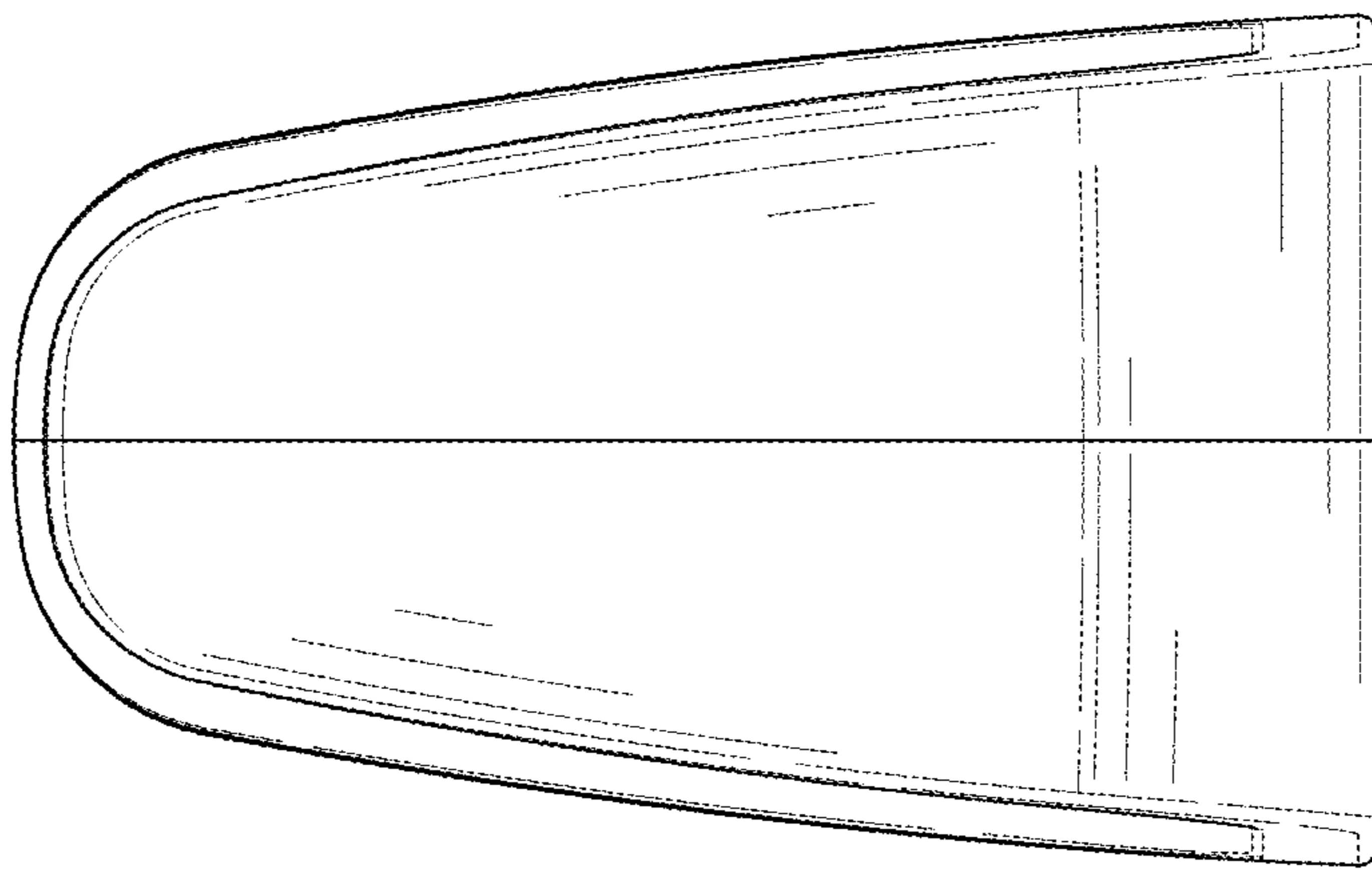


FIG. 5

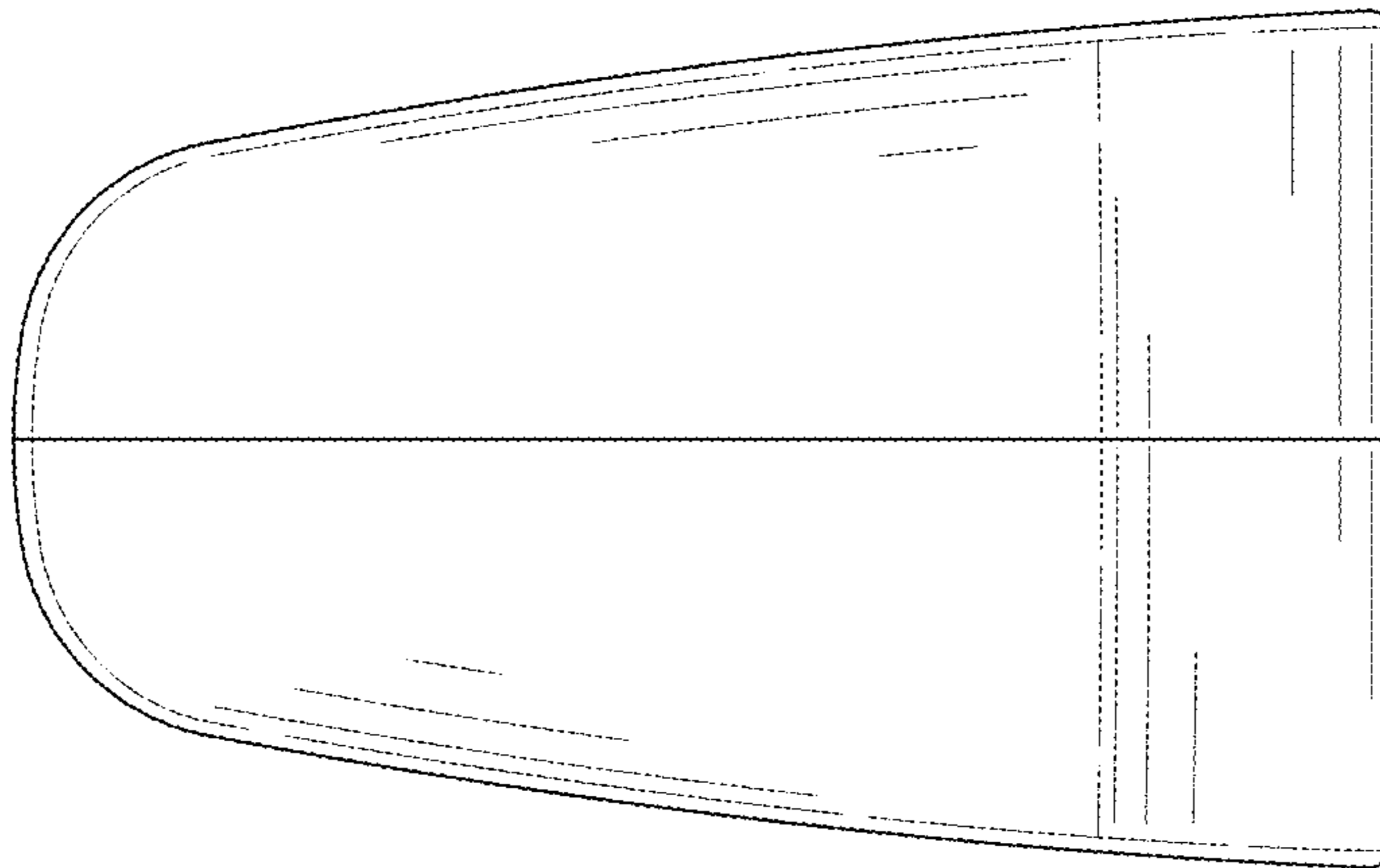


FIG. 6

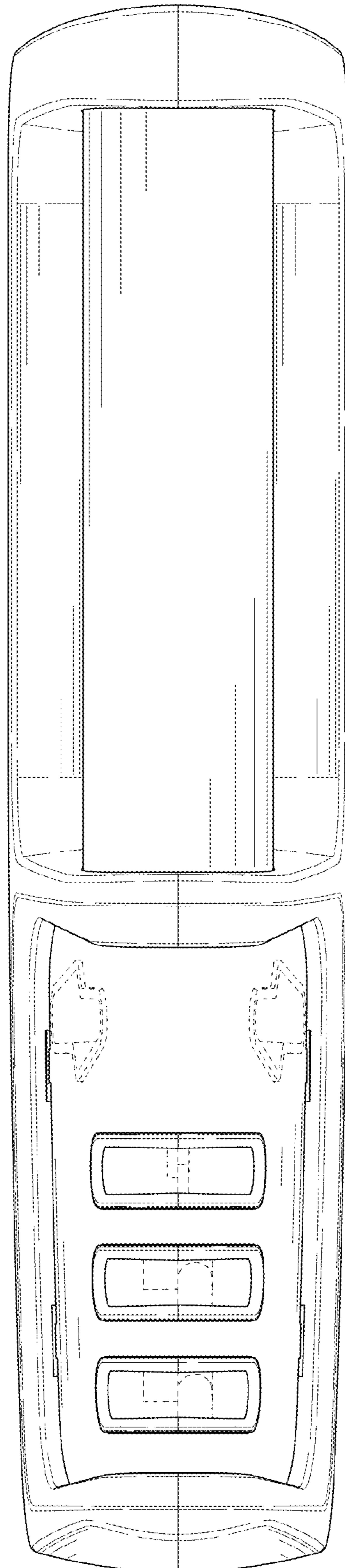


FIG. 7



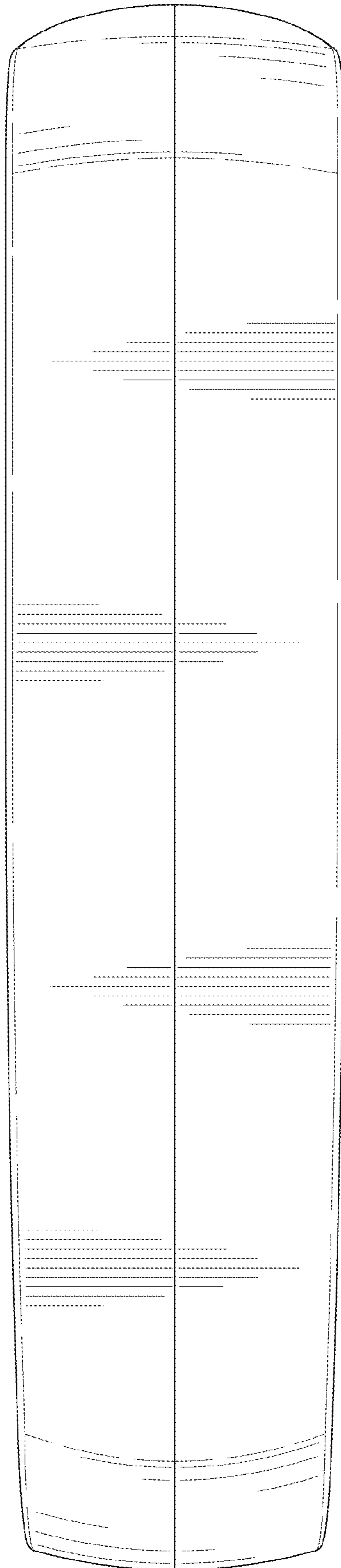


FIG. 8