



US00D927931S

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

(10) **Patent No.:** **US D927,931 S**  
(45) **Date of Patent:** **\*\* Aug. 17, 2021**

(54) **MIXING IMPELLER**

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

(21) Appl. No.: **29/730,507**

(22) Filed: **Apr. 6, 2020**

(51) **LOC (13) Cl.** ..... **31-00**

(52) **U.S. Cl.**  
USPC ..... **D7/412; D7/376; D7/378; D7/383**

(58) **Field of Classification Search**  
USPC ..... D7/372, 376–386, 412–413, 602, 629, D7/665–666, 669, 679, 693–694; D13/115; D23/200; D24/220  
CPC .... A21C 1/02; A21C 1/04; A23N 1/00; A23N 1/02; A47J 43/04; A47J 43/25; A47J 43/27; A47J 43/042; A47J 43/044; A47J 43/046; A47J 43/075; A47J 43/0722; A47J 43/0727; B01F 3/00; B01F 3/0807; B01F 3/0853; B01F 7/00341; B01F 7/00633; B01F 7/22; B01F 13/0059; B01F 13/0064; B01F 15/00019; B02C 1/08; B02C 2/04; B02C 4/42; B02C 4/142; B02C 4/143; B02C 4/423; B02C 13/1835; B02C 18/20; B28C 5/10; B28C 5/12; B28C 5/14; B28C 5/16

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for mixing impeller, as shown and described.

**DESCRIPTION**

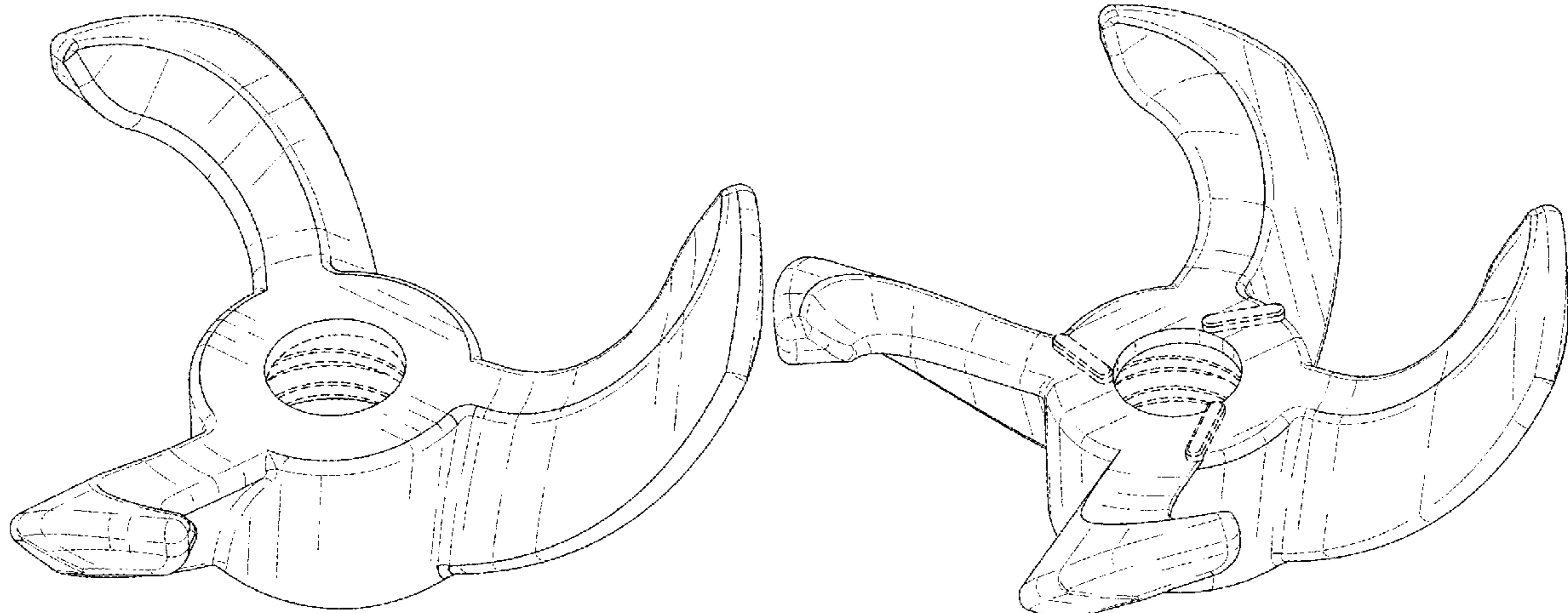
FIG. 1 is a top perspective view of a mixing impeller showing an embodiment of our new design; FIG. 2 is a bottom perspective view thereof; FIG. 3 is a front view thereof; FIG. 4 is a right side view thereof; FIG. 5 is a top view thereof; FIG. 6 is a bottom view thereof; FIG. 7 is a top perspective view of a mixing impeller showing another embodiment of our new design; FIG. 8 is a bottom perspective view thereof; FIG. 9 is a front view thereof; FIG. 10 is a top view thereof; and, FIG. 11 is a bottom view thereof.

The broken lines are for environmental purposes only and form no part of the claimed design.

The mixing impeller of the embodiment of FIGS. 1-6 is rotationally symmetrical at 120° intervals around a central vertical axis thereof.

The mixing impeller of the embodiment of FIGS. 7-11 is being rotationally symmetrical at 90° intervals around a central vertical axis thereof, such that the right side, left side and rear views are substantially identical to the front view of FIG. 9.

**1 Claim, 6 Drawing Sheets**



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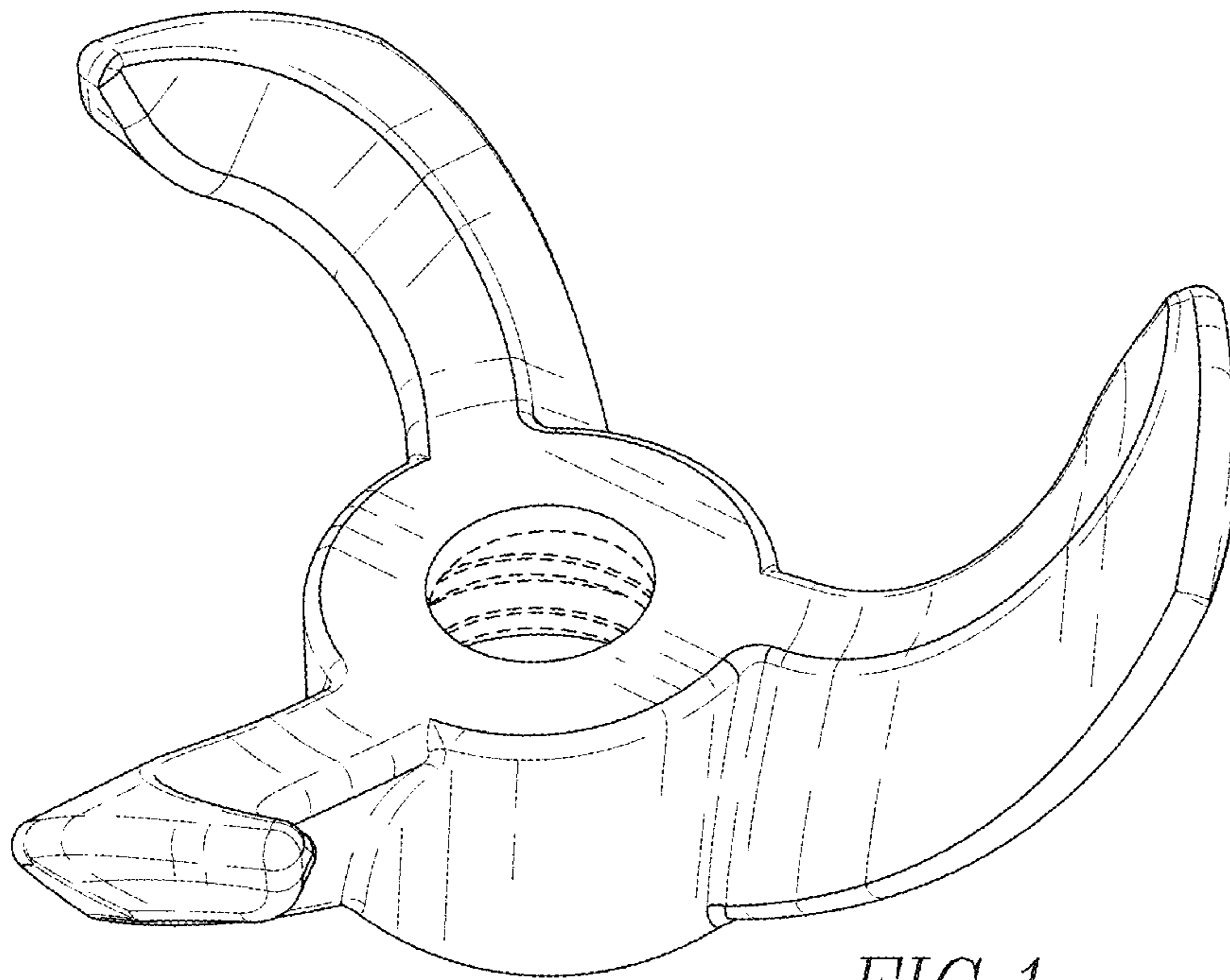


FIG.1

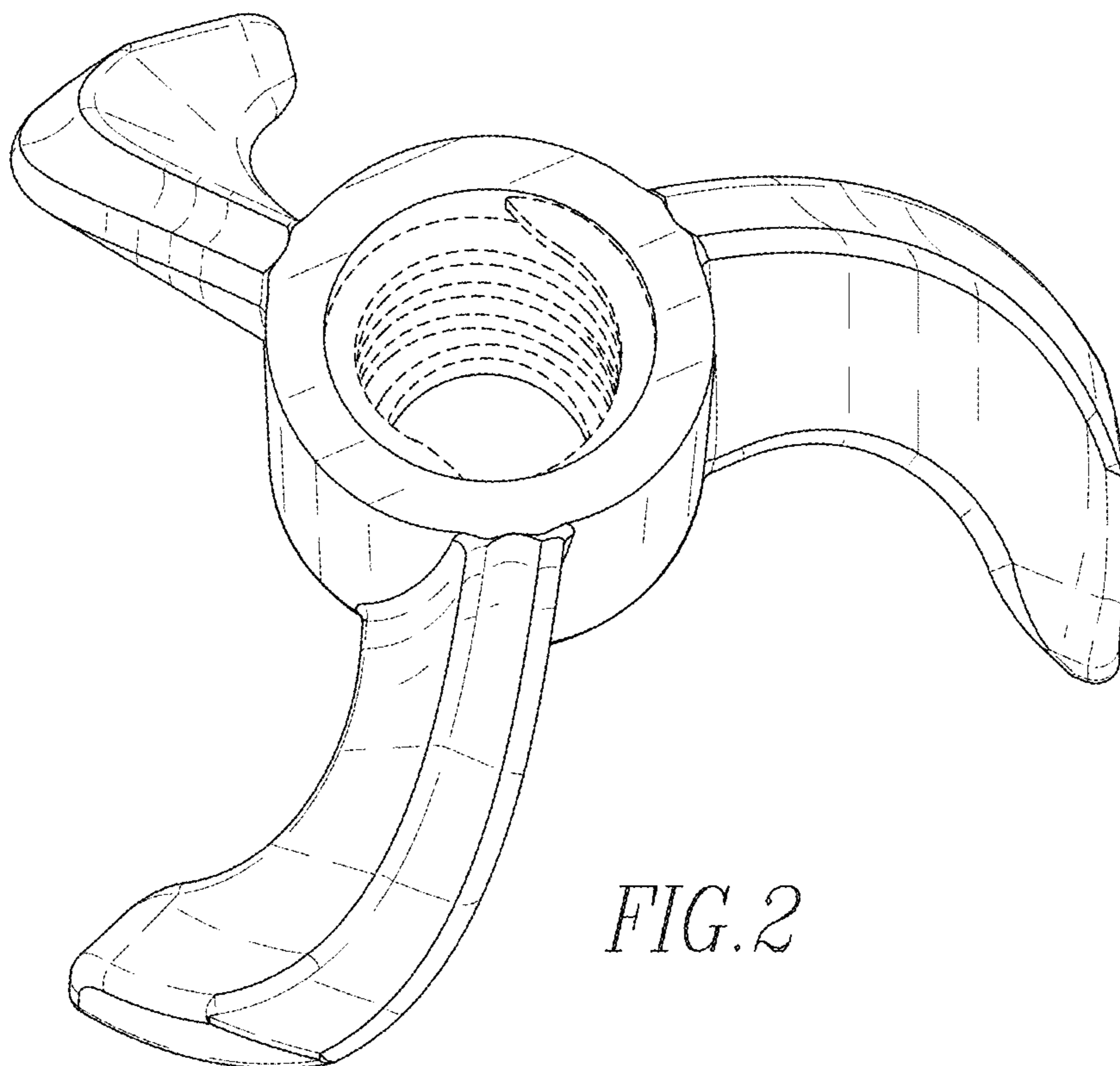
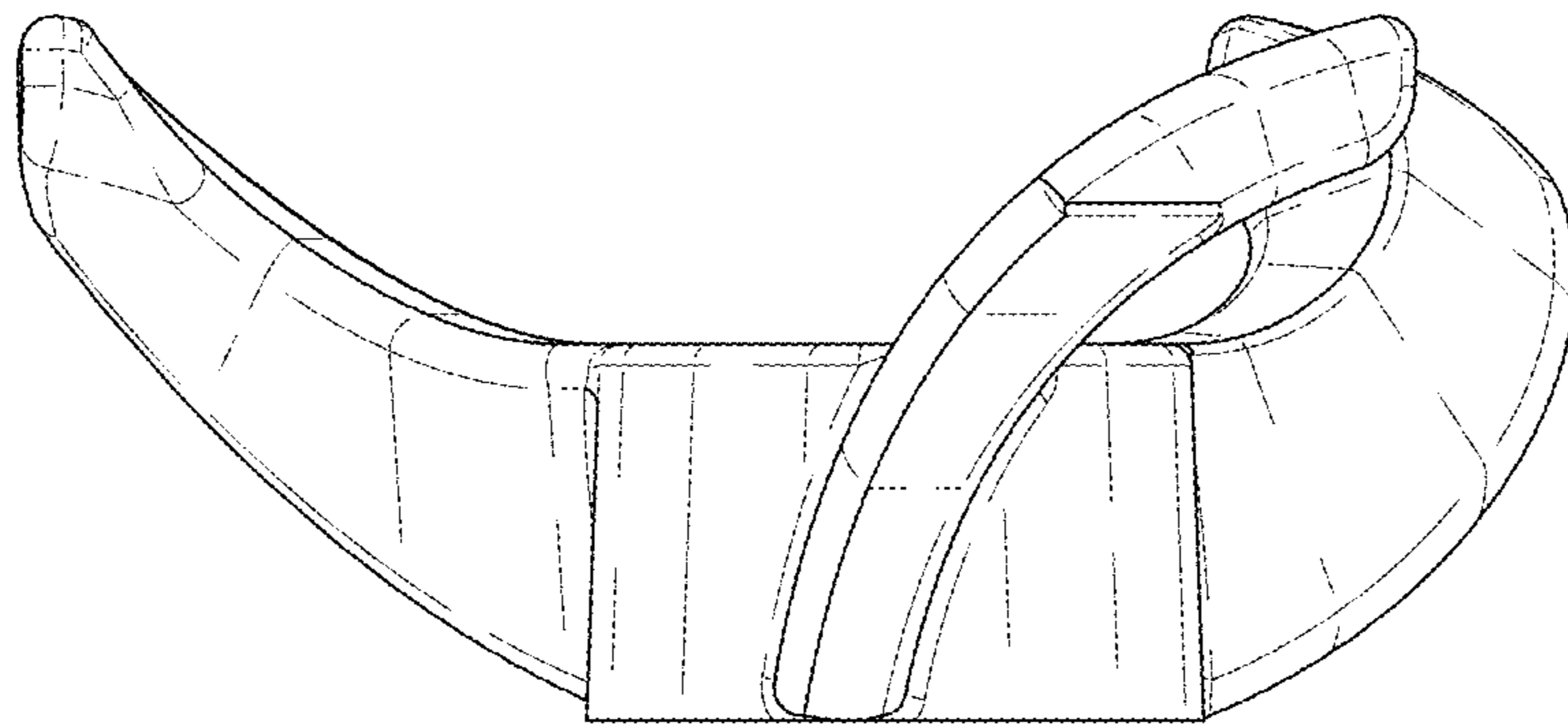
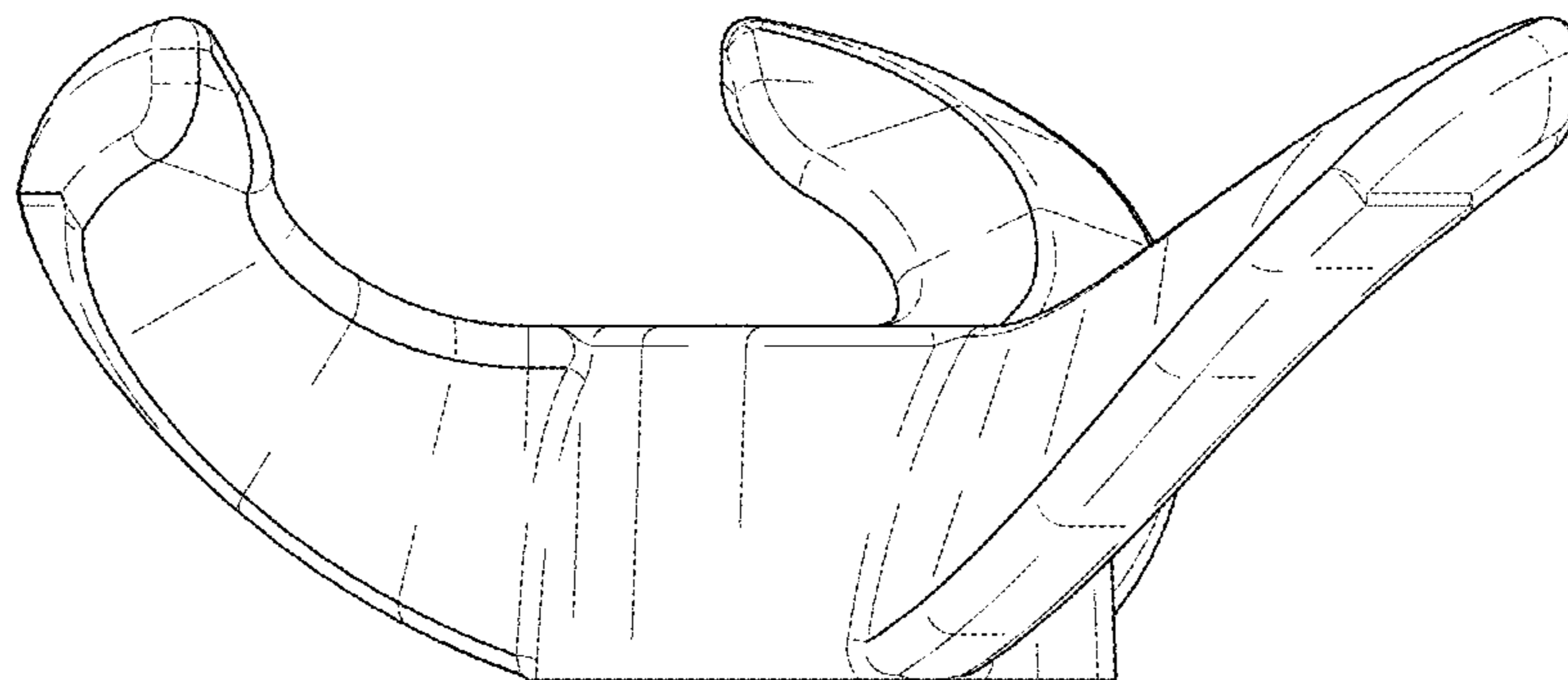


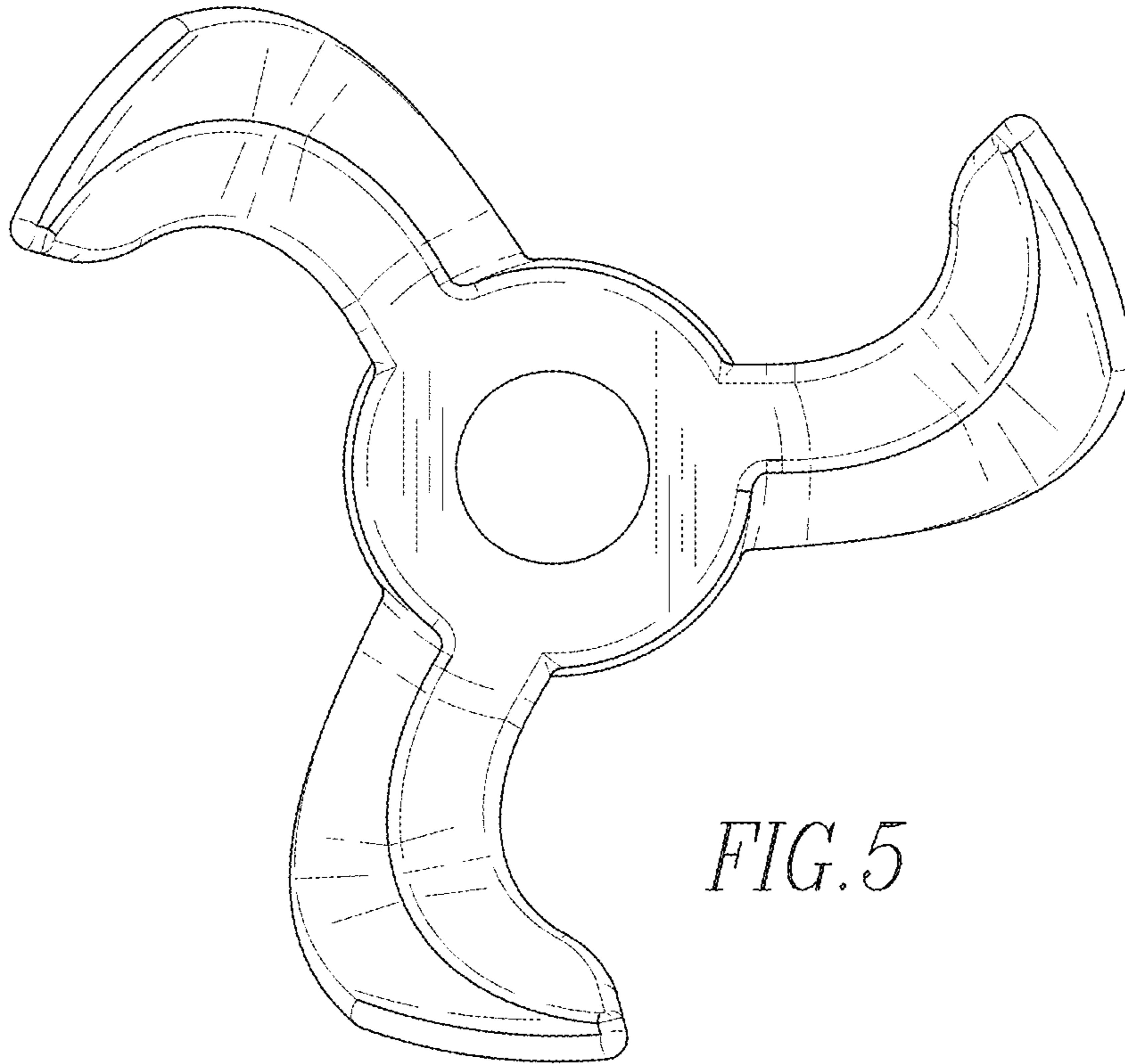
FIG.2



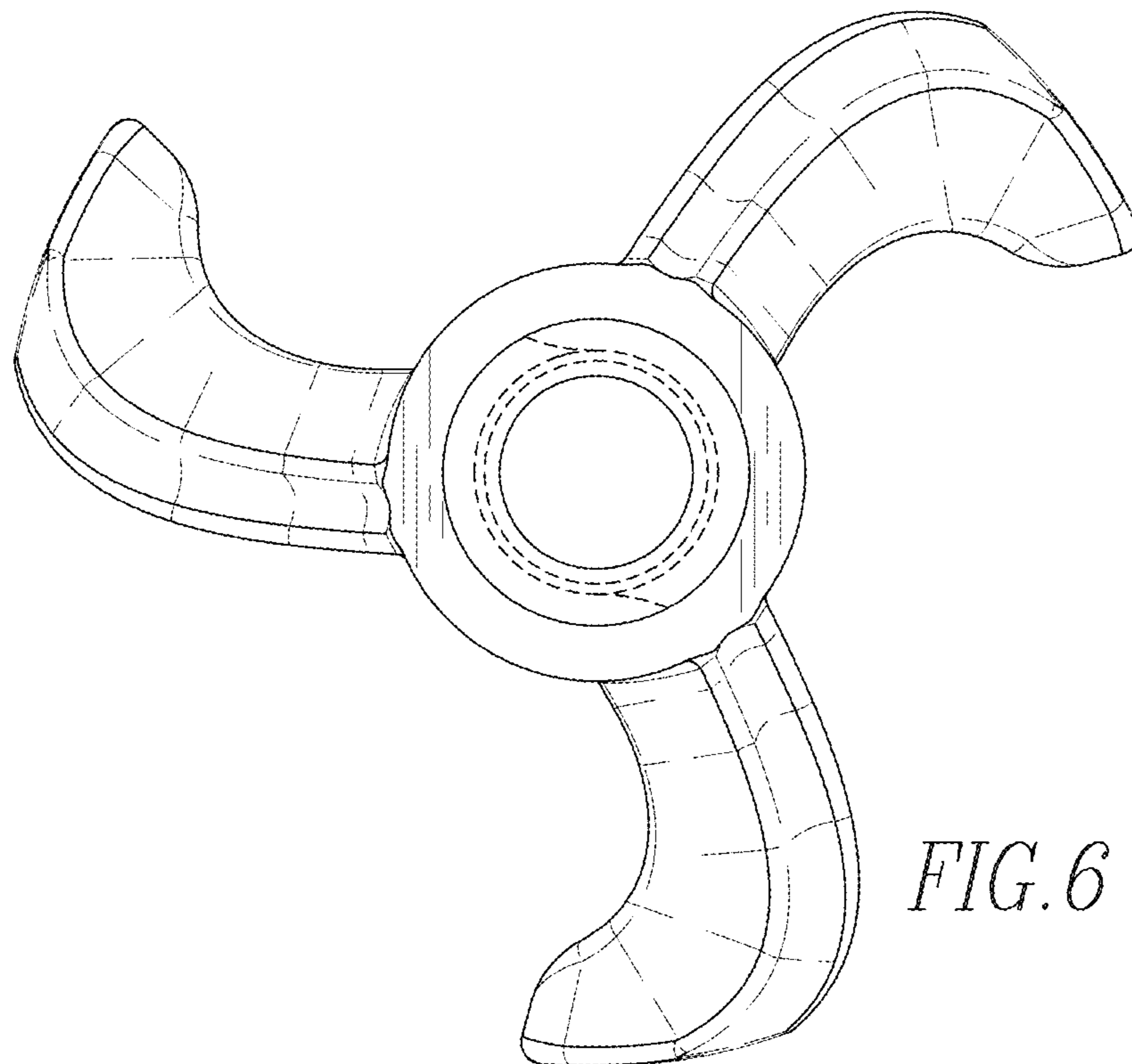
*FIG. 3*



*FIG. 4*



*FIG. 5*



*FIG. 6*

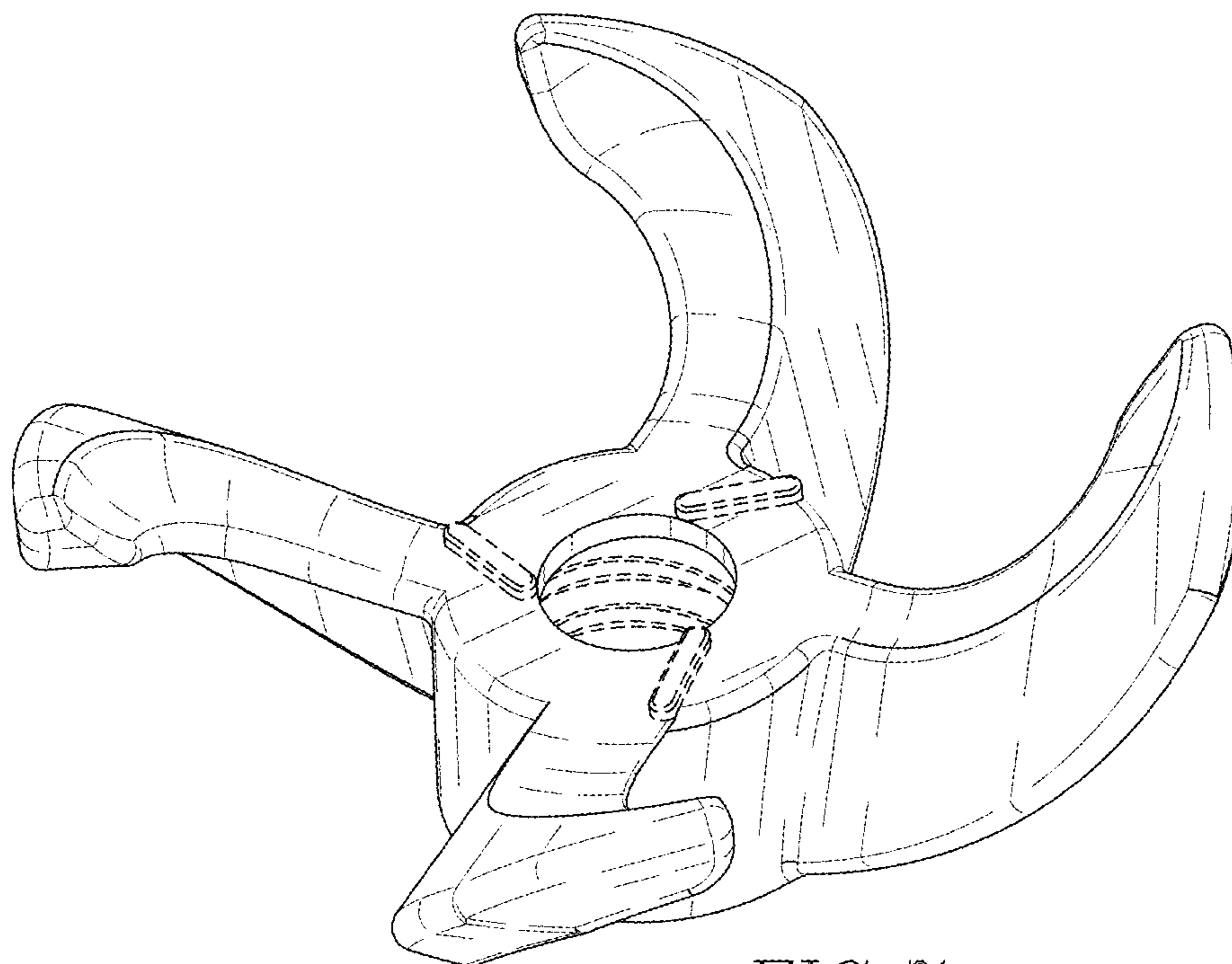


FIG. 7

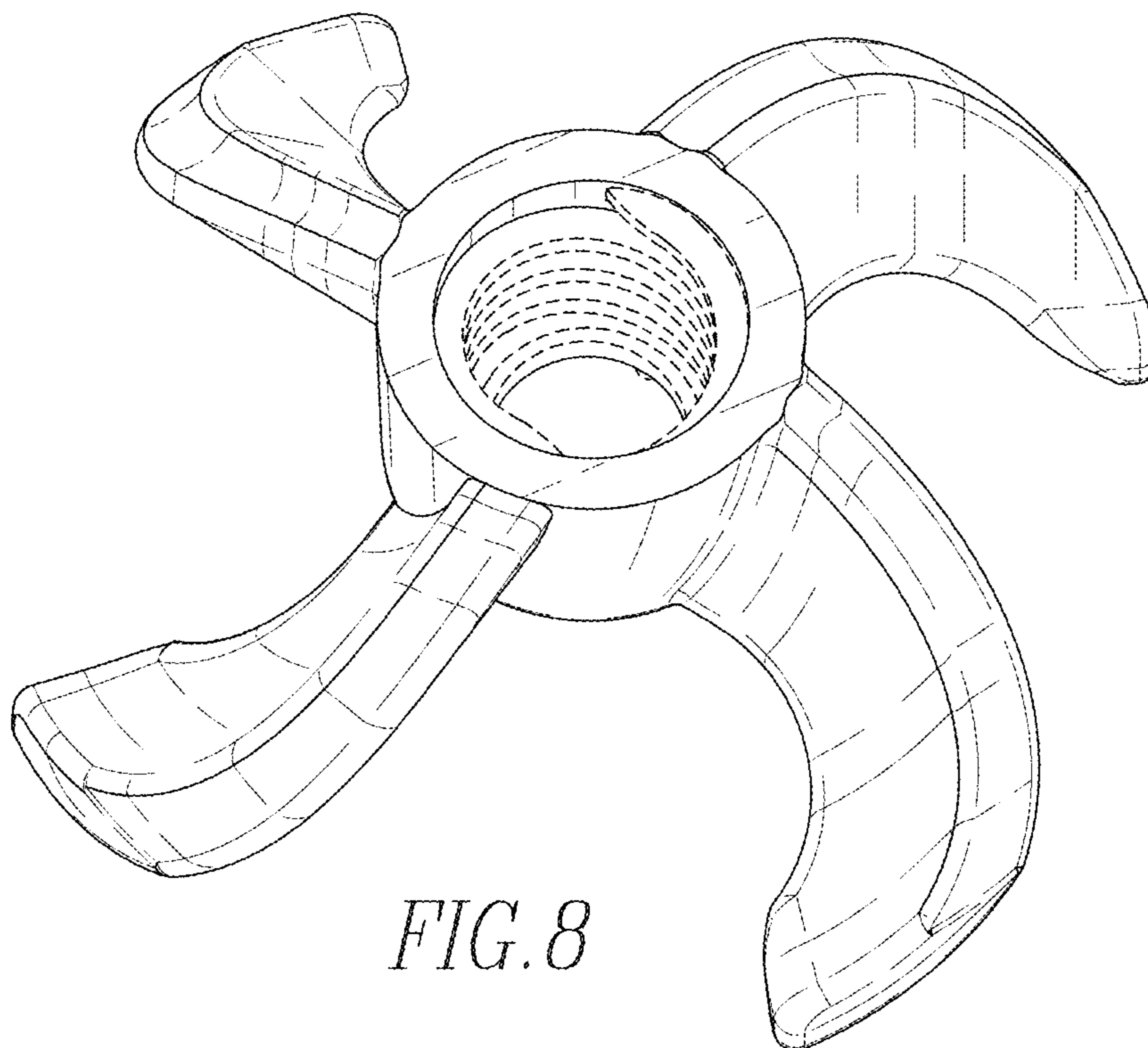
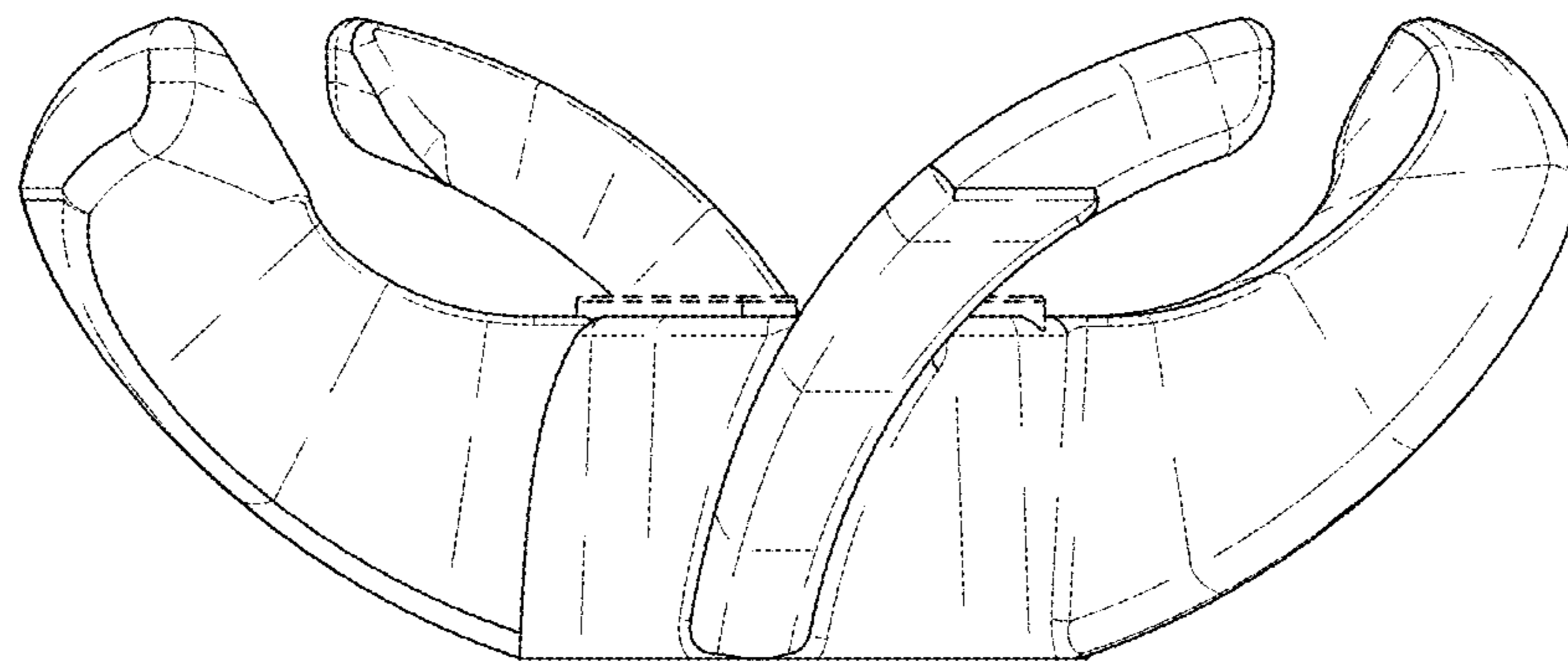
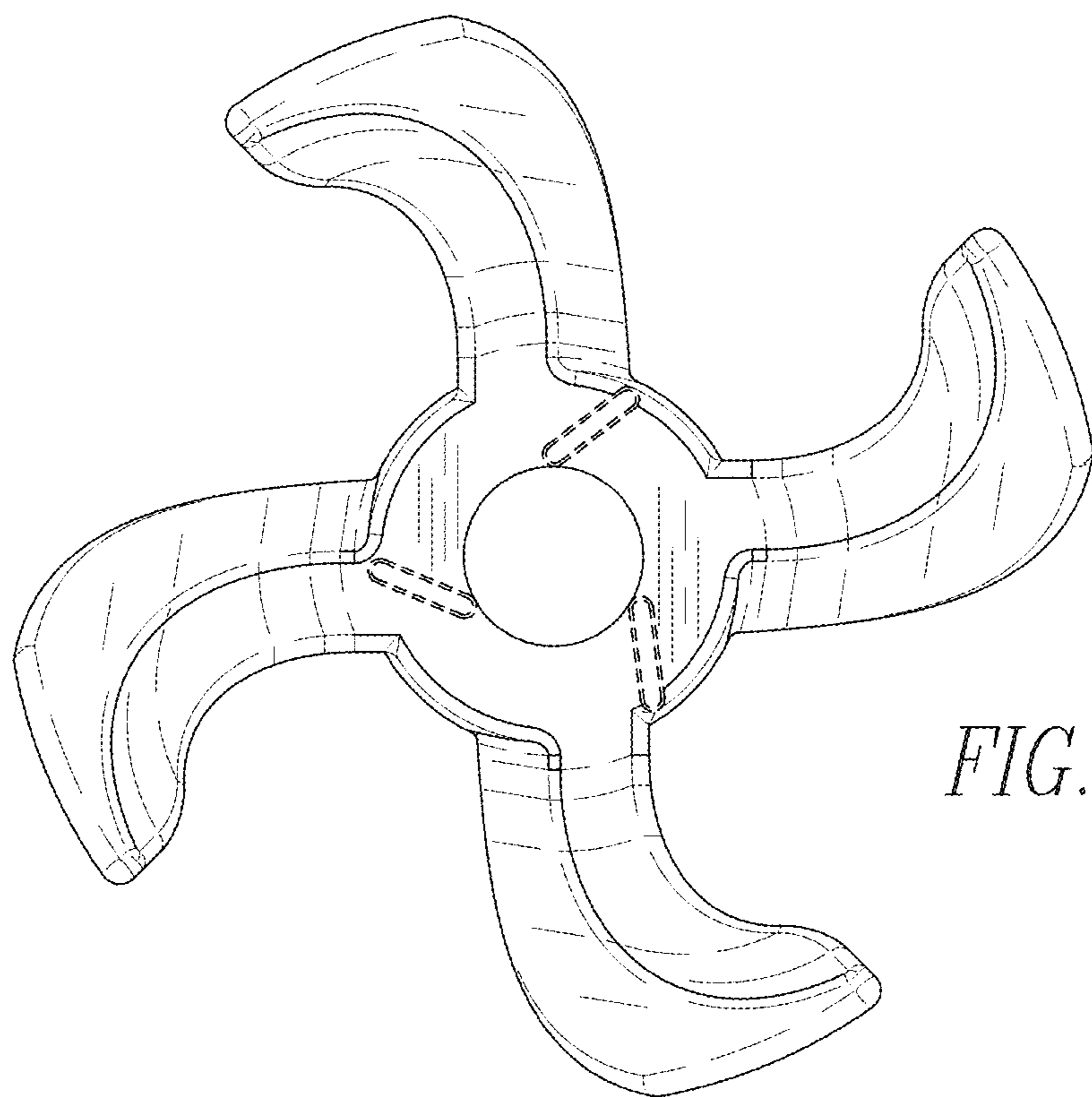


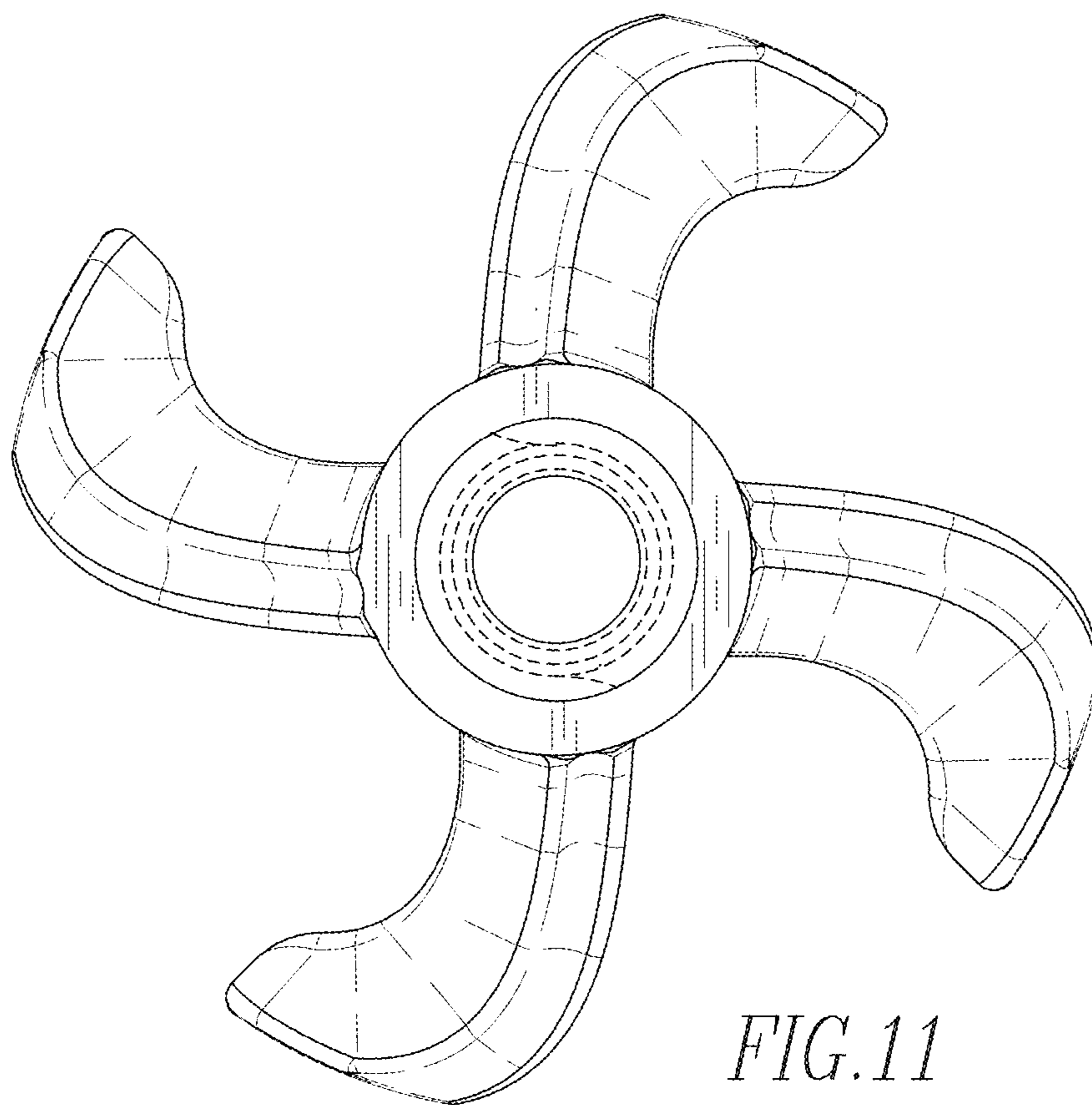
FIG. 8



*FIG. 9*



*FIG. 10*



*FIG. 11*