

US00D638929S

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

(10) **Patent No.:** **US D638,929 S**

(45) **Date of Patent:** **** May 31, 2011**

(54) **RESPIRATOR HEAD HARNESS**

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(73) Assignee: **3M Innovative Properties Company**, St. Paul, MN (US)

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

(21) Appl. No.: **29/282,531**

(22) Filed: **Jul. 23, 2007**

(51) **LOC (9) Cl.** **24-02**

(52) **U.S. Cl.** **D24/110.1**

(58) **Field of Classification Search** D24/108-110.5;
128/206.12, 206.19, 206.27, 205.25, 206.15,
128/206.18, 206.21

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,481,763	A	1/1996	Brostrom et al.	
5,717,991	A *	2/1998	Nozaki et al.	2/9
6,173,712	B1 *	1/2001	Brunson	128/206.19
6,257,235	B1 *	7/2001	Bowen	128/206.21
D449,377	S *	10/2001	Henderson et al.	D24/110.1
D458,364	S *	6/2002	Curran et al.	D24/110.1
D459,471	S *	6/2002	Curran et al.	D24/110
6,584,976	B2 *	7/2003	Japuntich et al.	128/206.15
6,732,733	B1	5/2004	Brostrom et al.	
6,833,519	B1	12/2004	Bruchmann	
7,178,528	B2 *	2/2007	Lau et al.	128/207.18
D575,390	S *	8/2008	Scott et al.	D24/110.6
D613,850	S *	4/2010	Holmquist-Brown et al.	D24/110.1
D620,104	S *	7/2010	Curran et al.	D24/110.1

OTHER PUBLICATIONS

U.S. Appl. No. 11/278,269; Inventors: Nathan A. Abel, James R.

Betz, Sean M. Burke, Michael J. Lynch, Matthew D. Reier, and Andrew S. Viner; filed Mar. 31, 2006; total pp. 31 including drawings. Product Literature: 3M Company, "Full Facepiece Respirator 7000 Series—User Instructions", 2004, 19 pgs. Product Literature: 3M Company, "Half and Full Facepiece Respirators", Jan. 2002, 6 pgs. Product Literature: MSA, "Advantage 1000 Low Maintenance Respirator", Mar. 2001, 4 pgs. Product Literature: Drager Safety, "X-Plore 6570 Full Face Masks", (date unknown but believed to be prior to the date of the filing of the present application), 2 pgs. Product Literature: Drager Safety, "X-Plore 5500 Full Face Mask", (date unknown but believed to be prior to the date of the filing of the present application), 2 pgs. Product Literature: North Safety Products, "North Respiratory Protection", 2005, pp. 1, 9, 13, 17, 22, 34, 36, 37.

(Continued)

Primary Examiner — Ian Simmons

Assistant Examiner — Charles D Hanson

(74) *Attorney, Agent, or Firm* — Kenneth D. Wood

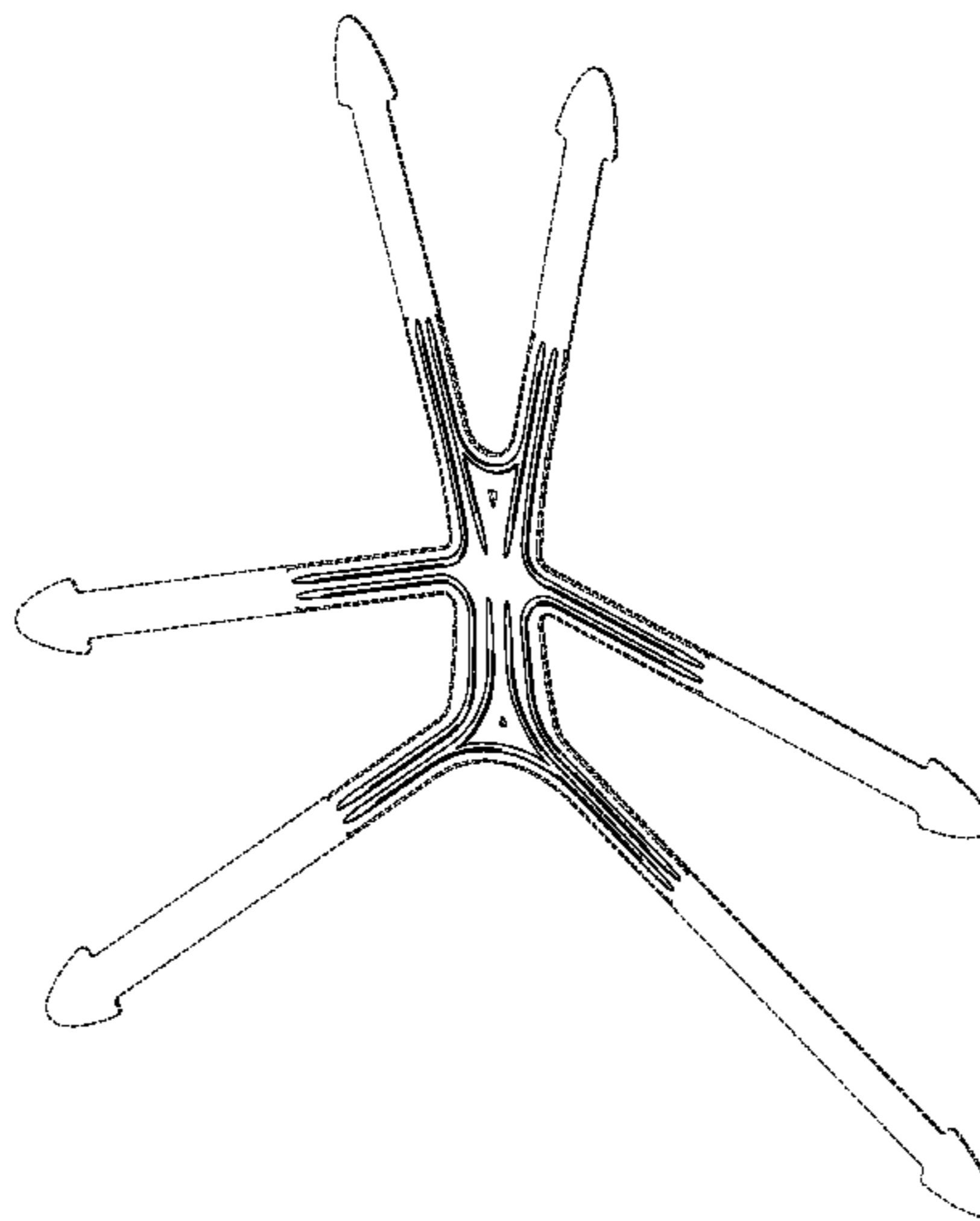
(57) **CLAIM**

The ornamental design for a respirator head harness, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a respirator head harness showing our new design; FIG. 2 is a top view thereof; FIG. 3 is a bottom view thereof; FIG. 4 is a left side view thereof, the right side view being a mirror image of the left side view; FIG. 5 is a front view thereof; FIG. 6 is a rear view thereof; and, FIG. 7 is a magnified view of the central portion of FIG. 2. The broken line showing is included for the purpose of illustrating environment and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets



OTHER PUBLICATIONS

Product Literature: Aearo Technologies, "AOSafety Respiratory Protection", 2006, 20 pgs.

Product Literature: Tyco/Scott, "Air Purifying Respirators", Sep. 2004, 8 pgs.

Product Literature: Survivair, "Survivair Product Guide", Sep. 2006, 24 pgs.

Product Literature: Survivair, "Survivair Max Instruction Manual", Jun. 2003, 23 pgs.

* cited by examiner

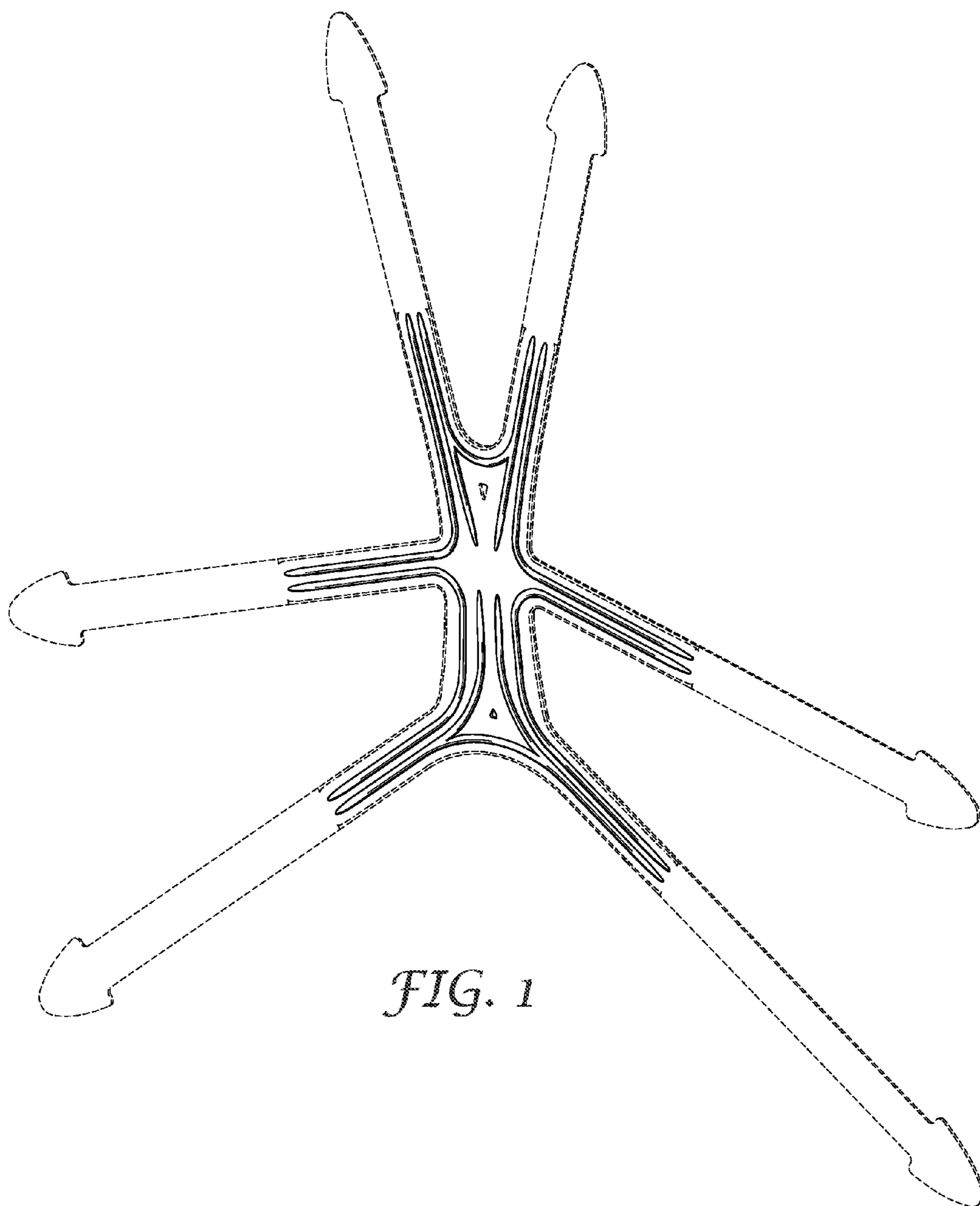


FIG. 1

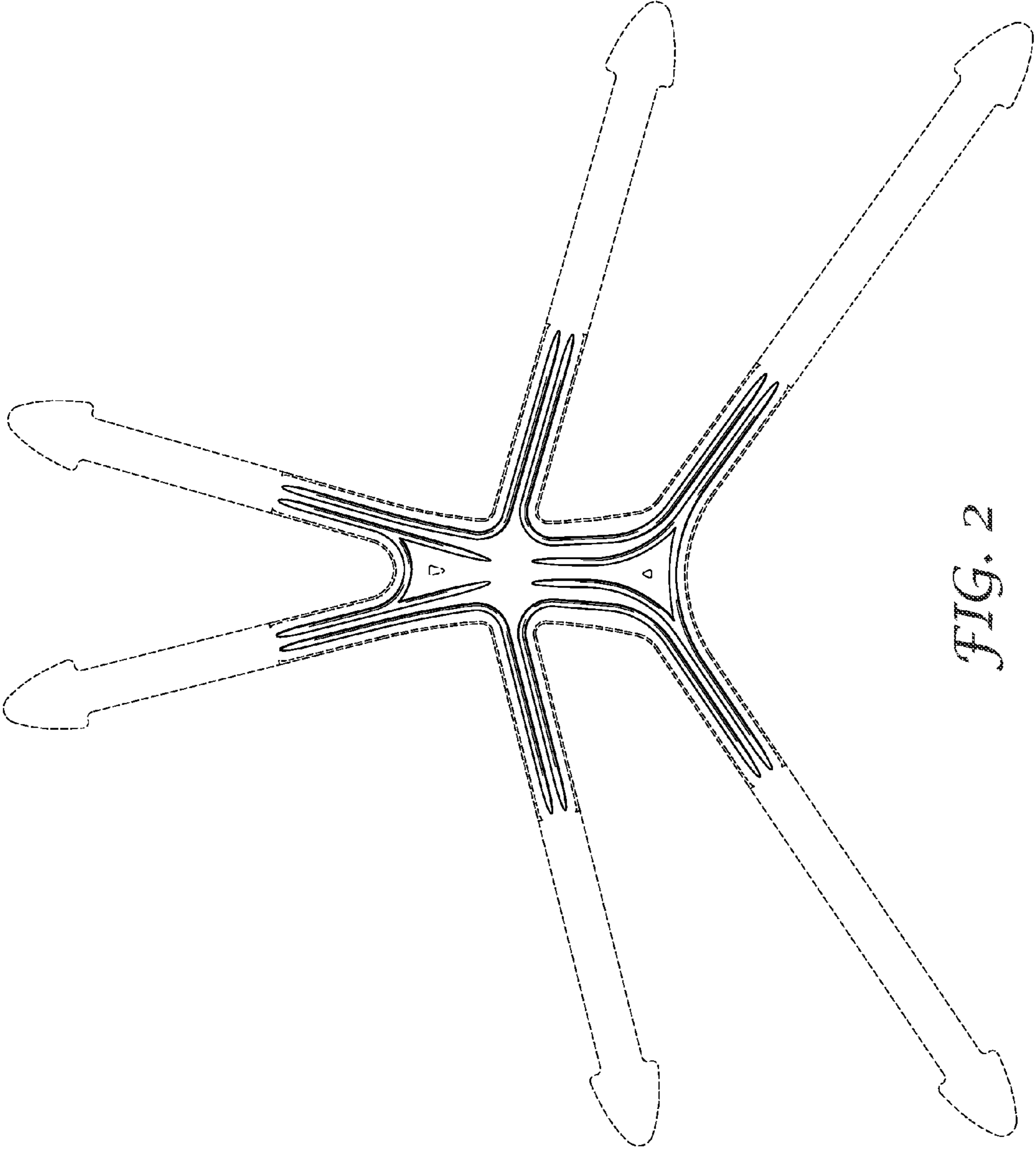


FIG. 2

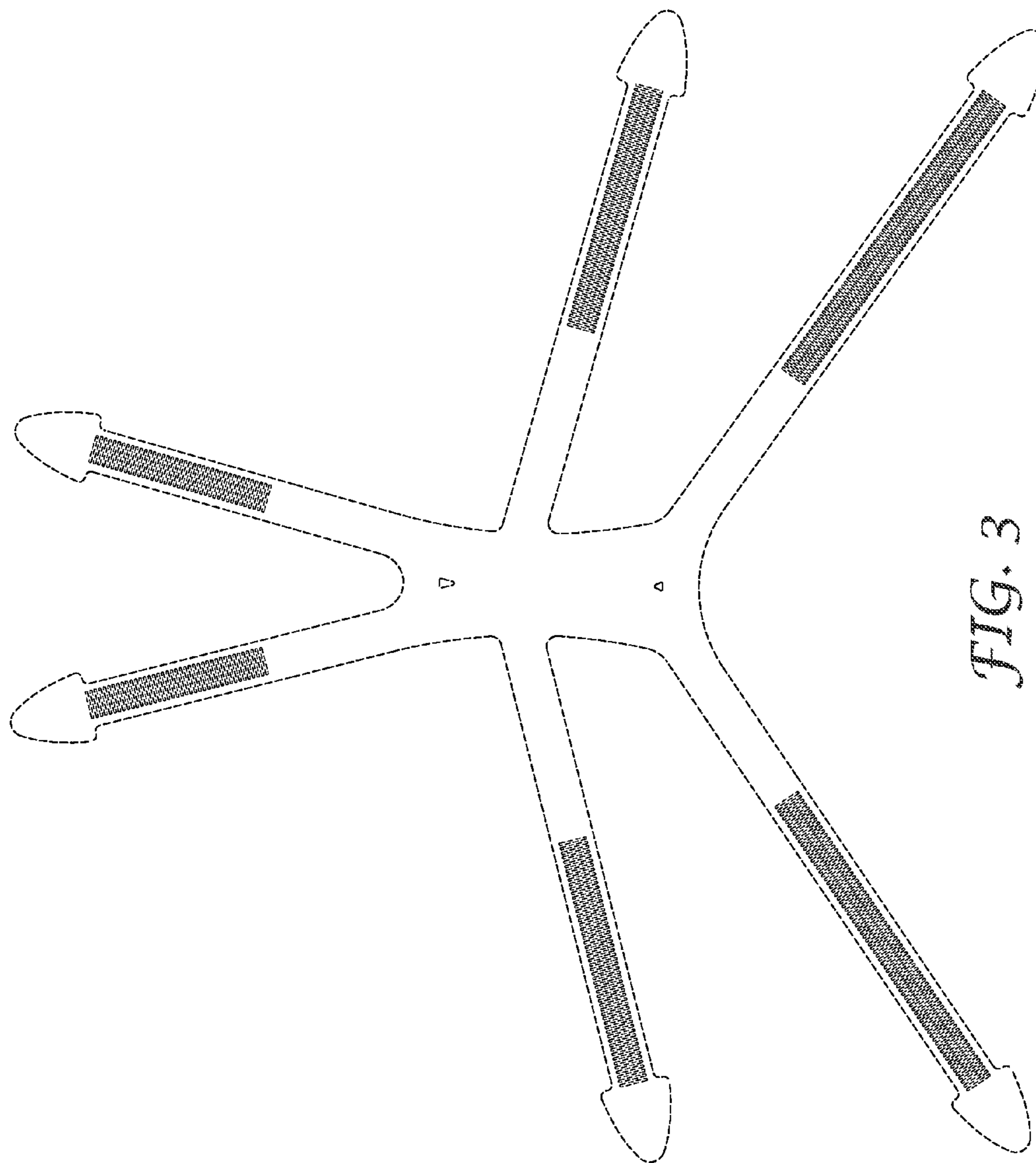


FIG. 3



FIG. 5



FIG. 6

FIG. 4



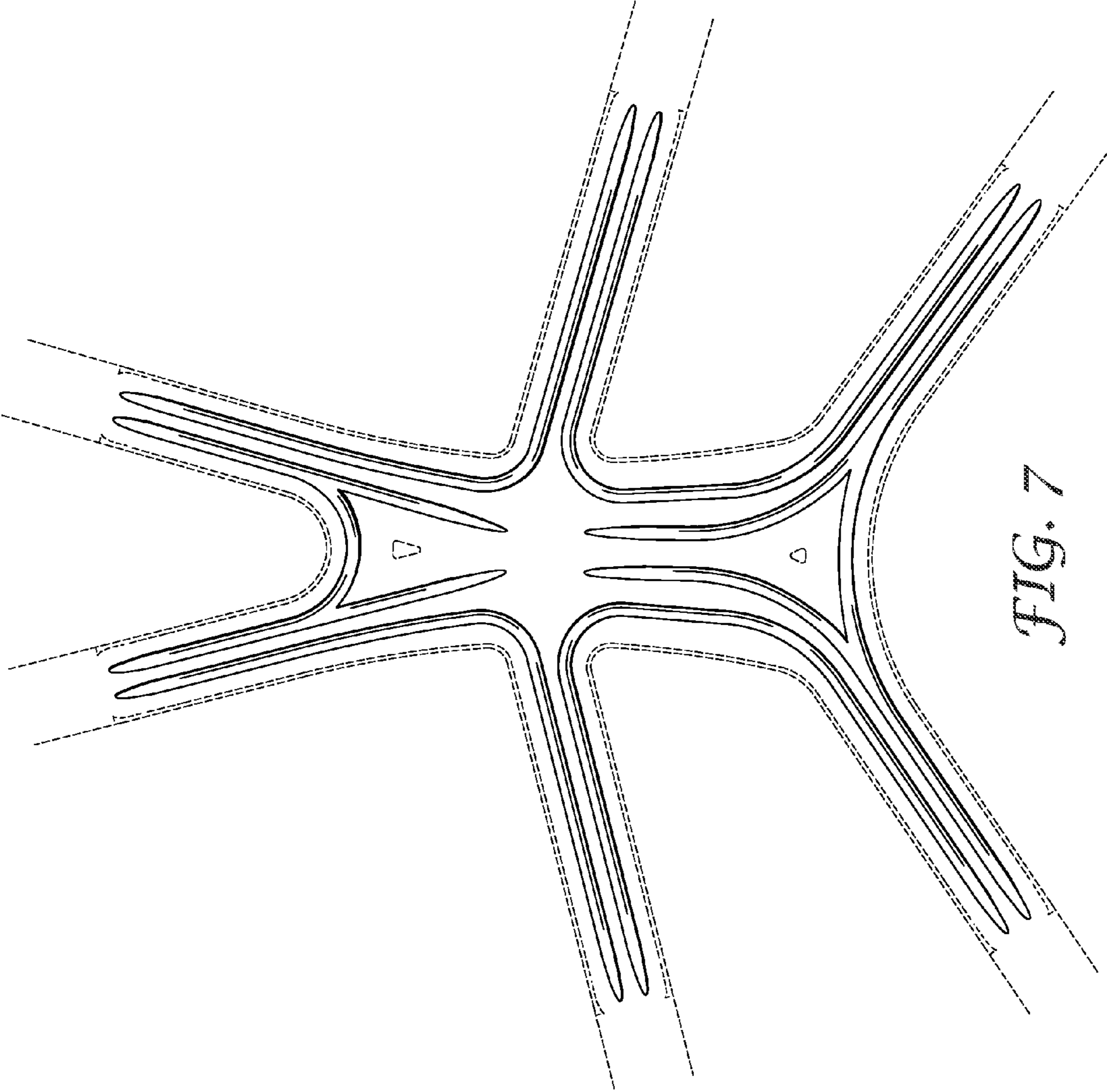


FIG. 7

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D638,929 S
APPLICATION NO. : 29/282531
DATED : May 31, 2011
INVENTOR(S) : Nathan Arlan Abel

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

First Page, Column 2

Line 1, delete "Kenneth D. Wood" and insert -- Kenneth B. Wood --, therefor.

Signed and Sealed this
Eighteenth Day of October, 2011

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive style with a large, stylized 'D' and 'K'.

David J. Kappos
Director of the United States Patent and Trademark Office