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(12) **United States Design Patent** (10) **Patent No.:** **US D812,160 S**  
**Dennis et al.** (45) **Date of Patent:** **\*\* Mar. 6, 2018**

(54) **HINGED RESISTANCE EXERCISE DEVICE**

(71) Applicants: **Douglas S. Dennis**, Loveland, OH  
(US); **David W. Frey**, Loveland, OH  
(US)

(72) Inventors: **Douglas S. Dennis**, Loveland, OH  
(US); **David W. Frey**, Loveland, OH  
(US)

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**Related U.S. Application Data**

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Jan. 19, 2012, now Pat. No. 9,248,332.

(51) **LOC (11) Cl.** ..... **21-02**

(52) **U.S. Cl.**  
USPC ..... **D21/692**

(58) **Field of Classification Search**  
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D11/133; D19/97, 82, 96; D27/156;  
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84/265; D8/303; D24/211; 74/558;  
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See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,132,862 A 10/1938 Pilates  
2,529,347 A 11/1950 Mohler et al.

2,725,232 A 11/1955 Magida  
2,806,699 A 9/1957 Spooner  
3,349,621 A \* 10/1967 Mullen ..... A61B 5/225  
482/122  
4,022,463 A \* 5/1977 Scott, Jr. .... A63B 21/023  
482/122  
4,210,323 A 7/1980 Feather  
4,374,588 A 2/1983 Ruggles  
D277,593 S 2/1985 Terrian et al.  
4,629,186 A 12/1986 Aldridge  
4,733,861 A 3/1988 Plunkett  
4,861,022 A \* 8/1989 Boatcallie ..... A63B 21/0004  
482/126  
D322,827 S 12/1991 Bennstrom et al.  
5,072,927 A \* 12/1991 Santos ..... A63B 21/045  
482/44

(Continued)

**OTHER PUBLICATIONS**

CrossToner by CrossToner dated no date given. Found online [Sep.  
25, 2017] <http://www.crosstoner.com/>.\*

*Primary Examiner* — Robert M. Spear  
*Assistant Examiner* — Ryan Harvey  
(74) *Attorney, Agent, or Firm* — Wood Herron & Evans  
LLP

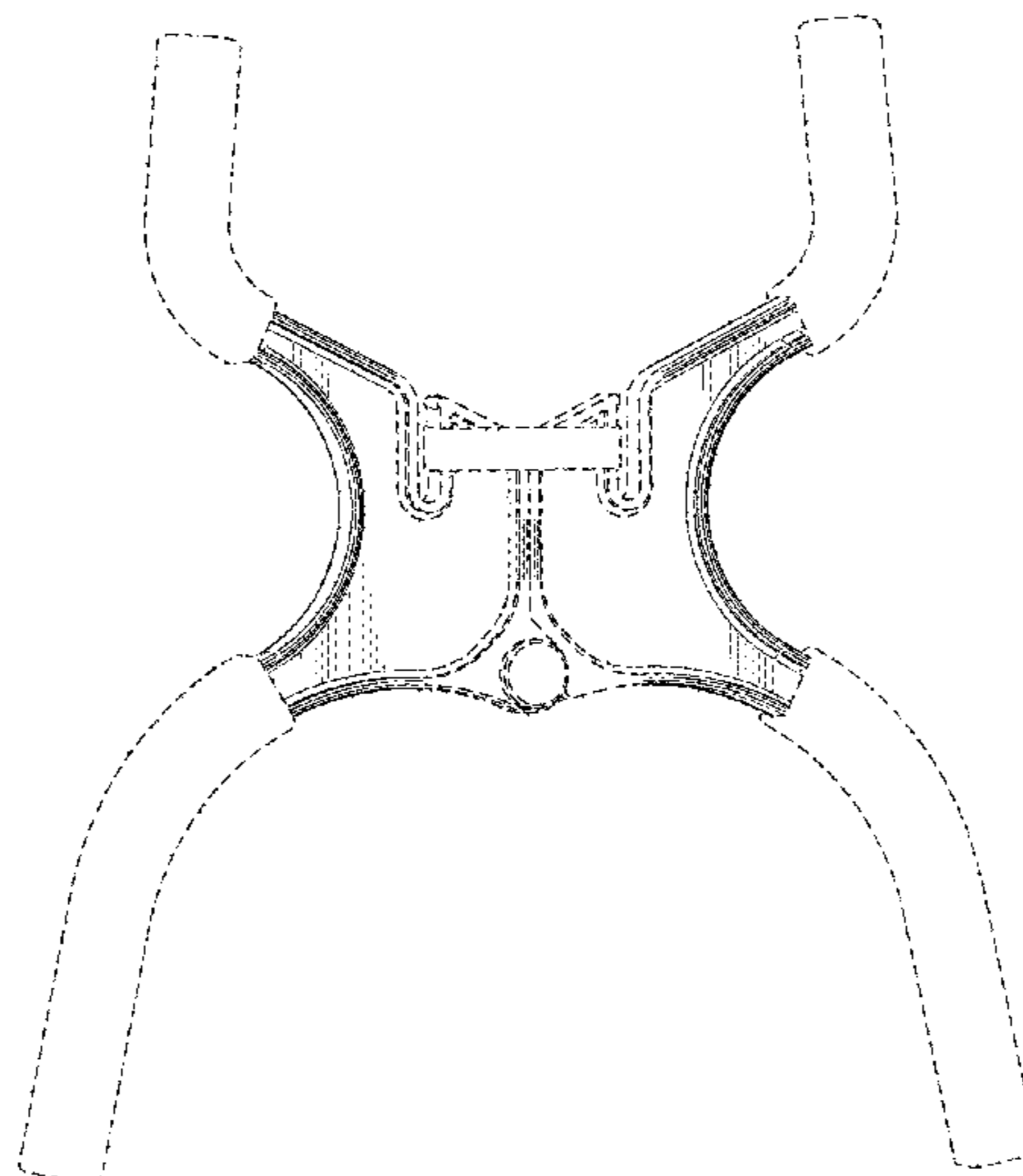
(57) **CLAIM**

We claim the ornamental design for the hinged resistance  
exercise device, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a hinged resistance  
exercise device showing our new design;  
FIG. 2 is a front view of the hinged resistance exercise  
device; and,  
FIG. 3 is a cross-sectional view taken along line 3-3 of FIG.  
2 of the hinged resistance exercise device.

**1 Claim, 2 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,141,478 A *	8/1992	Upper	.....	A63B 23/16	7,008,354 B2	3/2006	Wen	
				482/118	D521,086 S *	5/2006	Faulconer	..... D21/684
5,246,413 A *	9/1993	Koblick	.....	A63B 21/0004	7,134,986 B2 *	11/2006	Tiberio	..... A63B 23/032
				482/121				482/11
D346,632 S	5/1994	Castellanos			7,462,132 B2 *	12/2008	Kuehne	..... A63B 23/032
5,399,138 A	3/1995	Jones						128/861
5,496,245 A	3/1996	Du Verney			7,789,806 B2 *	9/2010	Yang	..... A63B 22/001
5,626,545 A	5/1997	Newman et al.						482/51
5,634,874 A	6/1997	Kest et al.			7,789,815 B2	9/2010	An	
5,674,164 A	10/1997	Kravitz			8,500,666 B2 *	8/2013	Clementes	..... A61H 7/003
5,690,596 A	11/1997	Parker						601/133
D420,072 S *	2/2000	Hershey	.....	D21/684	9,211,430 B1 *	12/2015	Higginbotham,	
6,024,679 A	2/2000	Castallanos et al.					III	..... A63B 21/0004
6,364,816 B1 *	4/2002	Tang	.....	A63B 21/0004	D747,167 S *	1/2016	Harkin	..... D8/72
				482/121	9,713,733 B2 *	7/2017	Dennis	..... A63B 21/02
D457,409 S *	5/2002	Noniewicz	.....	D8/395	9,757,606 B2 *	9/2017	Hao	..... A63B 21/023
6,620,082 B1 *	9/2003	Siegel	.....	A63B 21/0004	2007/0066459 A1	3/2007	Lemmex	
				482/124	2009/0239721 A1 *	9/2009	Bisson	..... A63B 21/0004
6,672,995 B2 *	1/2004	Baltodano	.....	A63B 21/0004				482/126
				482/121	2012/0264577 A1 *	10/2012	Dennis	..... A63B 21/0557
								482/126

\* cited by examiner

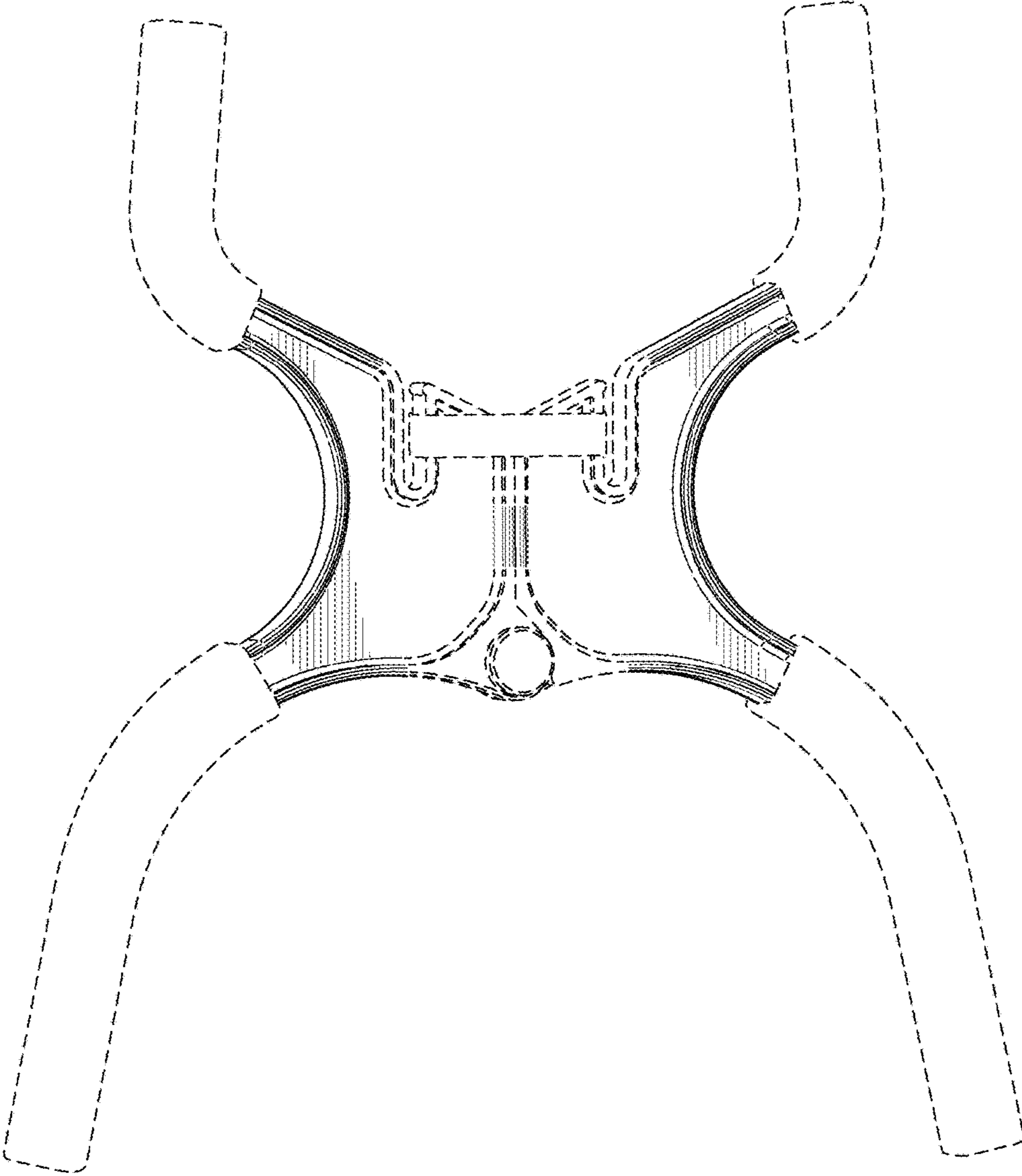


FIG. 1

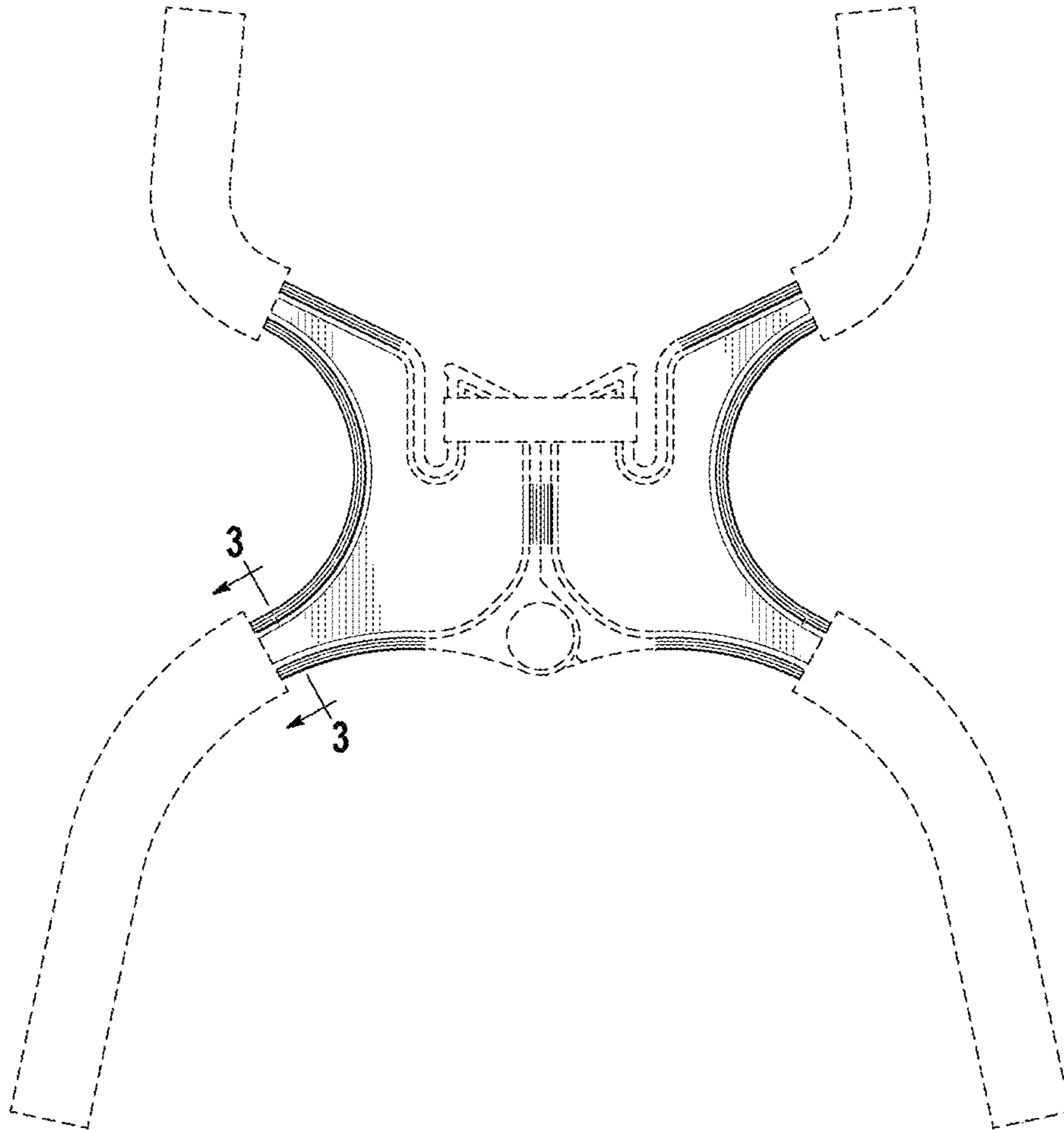


FIG. 2

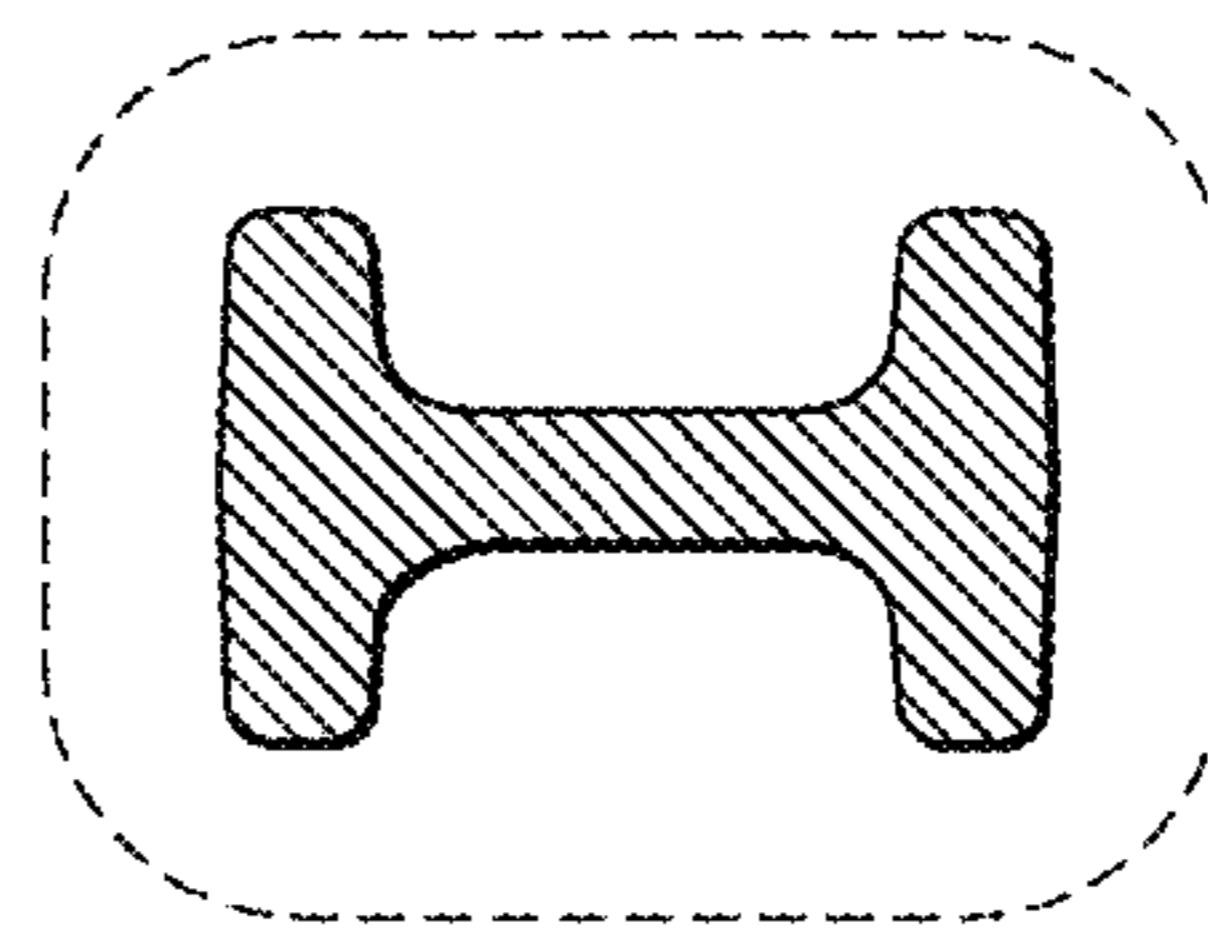


FIG. 3