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

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(54) **MOVEMENT ASSISTANCE DEVICE—THIGH COMPONENT**

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

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**Related U.S. Application Data**

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(51) **LOC (11) Cl.** ..... **24-04**

(52) **U.S. Cl.**  
USPC ..... **D24/188**

(58) **Field of Classification Search**  
USPC ..... D24/183, 188, 190  
CPC ..... A61H 33/0087; A61H 33/0095; A61H 2033/0016; A63B 22/02  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 3,491,385 A \* 1/1970 Werner ..... A61G 13/00 5/633
- 3,672,361 A \* 6/1972 Fourneron ..... A63B 21/0023 482/132
- 4,102,336 A \* 7/1978 Wiener ..... A61H 1/0218 606/241

- 4,817,588 A \* 4/1989 Bledsoe ..... A61F 5/0125 602/16
- 4,915,101 A \* 4/1990 Cuccia ..... A61H 1/0229 606/244
- 5,282,834 A \* 2/1994 Remy ..... A61H 1/02 128/845
- D346,028 S \* 4/1994 Lengyel ..... D24/190
- 5,472,401 A \* 12/1995 Rouillard ..... A63B 23/0233 482/142
- 5,980,435 A \* 11/1999 Joutras ..... A43B 1/0054 482/114
- 6,331,152 B1 \* 12/2001 Holle ..... A47C 3/02 434/55
- 6,428,496 B1 \* 8/2002 Sargent ..... A61F 5/04 602/32
- 6,436,065 B1 \* 8/2002 Mitchell ..... A61F 5/01 2/44

(Continued)

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(57) **CLAIM**

The ornamental design for a movement assistance device—thigh component, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a movement assistance device—thigh component showing my design.

FIG. 2 is a left side view thereof.

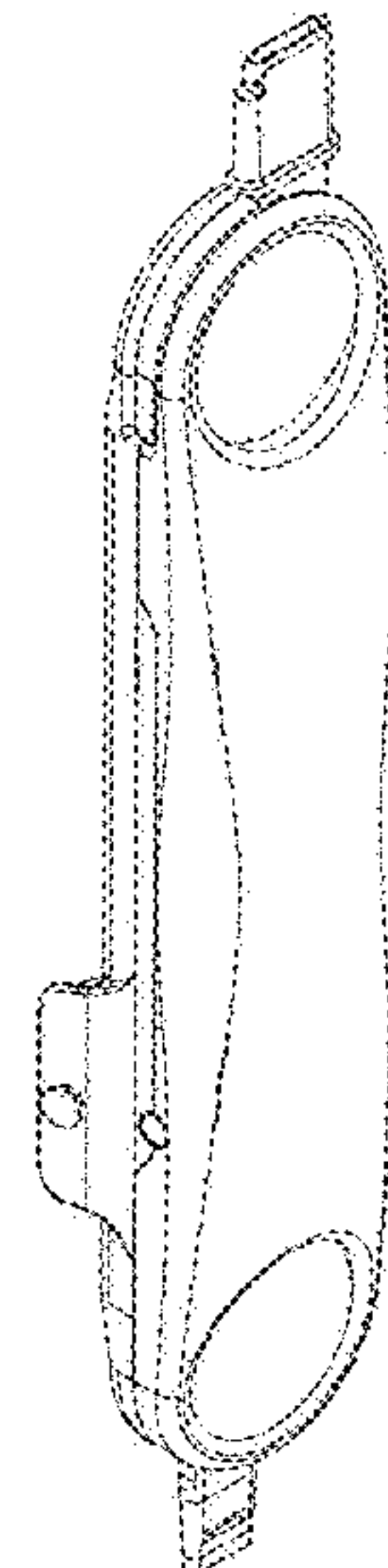
FIG. 3 is a front view thereof.

FIG. 4 is a right side view thereof; and,

FIG. 5 is a rear view thereof.

It is understood that the appearance of any part of the article not shown in the drawing or described in the specification forms no part of the claimed design. The broken lines shown in the figures represent portions of the movement assistance device—thigh component that form no part of the claimed design.

**1 Claim, 3 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

6,976,944 B1 *	12/2005	Damasio	.....	A61H 1/0222	482/112	2008/0188784 A1 *	8/2008	Ceriani	.....	A61F 5/0123	602/16
D530,426 S *	10/2006	Muehlenberend	.....	D24/190		2010/0262052 A1 *	10/2010	Lunau	.....	A61B 5/6828	602/5
7,144,353 B2 *	12/2006	Sjuragari	.....	A63B 21/00047		2011/0009786 A1 *	1/2011	Chan	.....	A61F 5/0125	602/16
D546,955 S *	7/2007	Bauerfiend	.....	D24/190		2011/0082402 A1 *	4/2011	Oddou	.....	A61F 5/0125	602/16
D660,971 S *	5/2012	Franke	.....	D24/192		2011/0282255 A1 *	11/2011	Nace	.....	A61F 5/0123	602/16
8,301,575 B2 *	10/2012	Bonnet	.....	A61B 5/1116	600/545	2013/0006159 A1 *	1/2013	Nakashima	.....	A61H 1/024	602/23
D693,930 S *	11/2013	Manalo	.....	D24/190		2013/0012852 A1 *	1/2013	Imaida	.....	A61F 5/01	602/16
D726,925 S *	4/2015	Fraser	.....	D24/190		2014/0339391 A1 *	11/2014	Hsu	.....	A61G 5/046	248/371
D731,663 S *	6/2015	Jung	.....	D24/190		2015/0099970 A1 *	4/2015	Schluesselberger	.	B25J 17/0208	600/437
2002/0188238 A1 *	12/2002	Townsend	.....	A61F 5/0125	602/26						
2006/0052732 A1 *	3/2006	Shimada	.....	A61F 5/0102	602/5						
2006/0155232 A1 *	7/2006	Ceriani	.....	A61F 5/0125	602/23						

\* cited by examiner

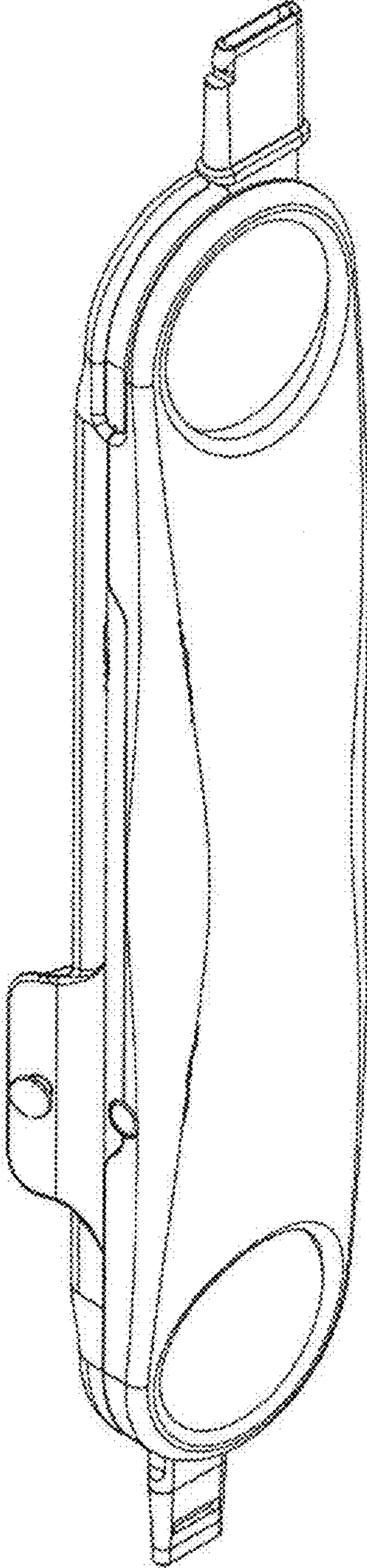


FIG. 1

FIG. 2

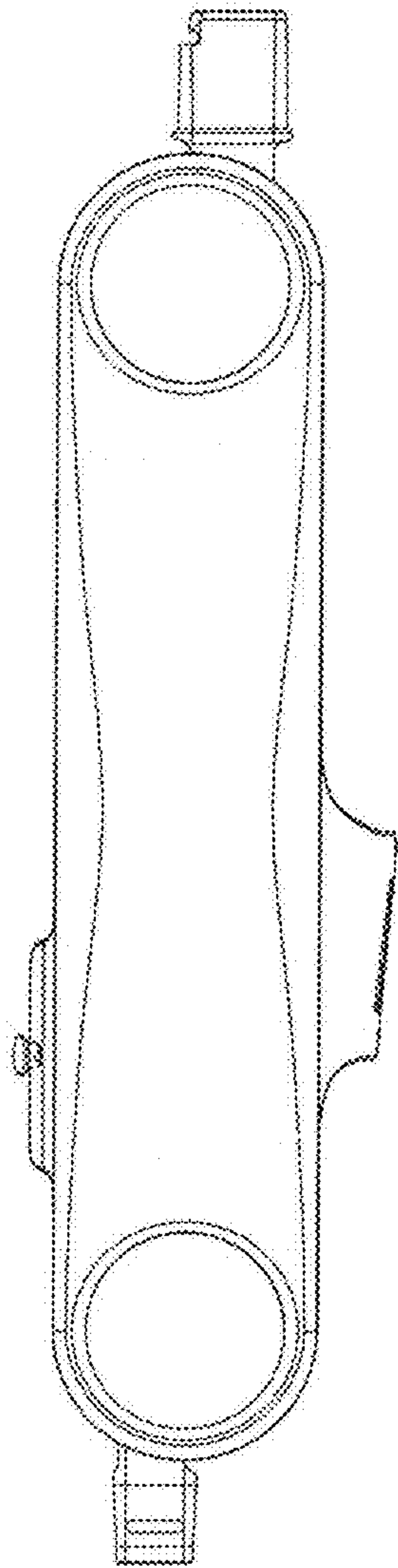
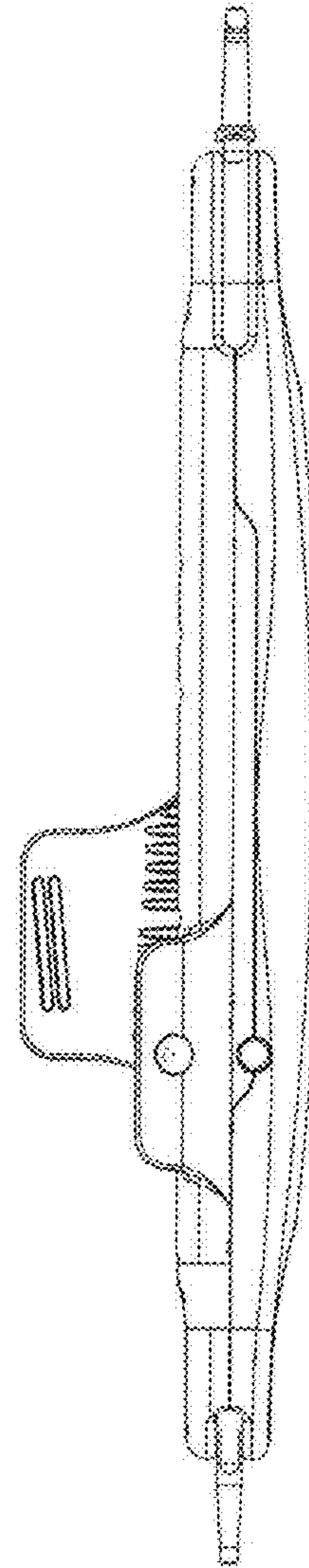


FIG. 3





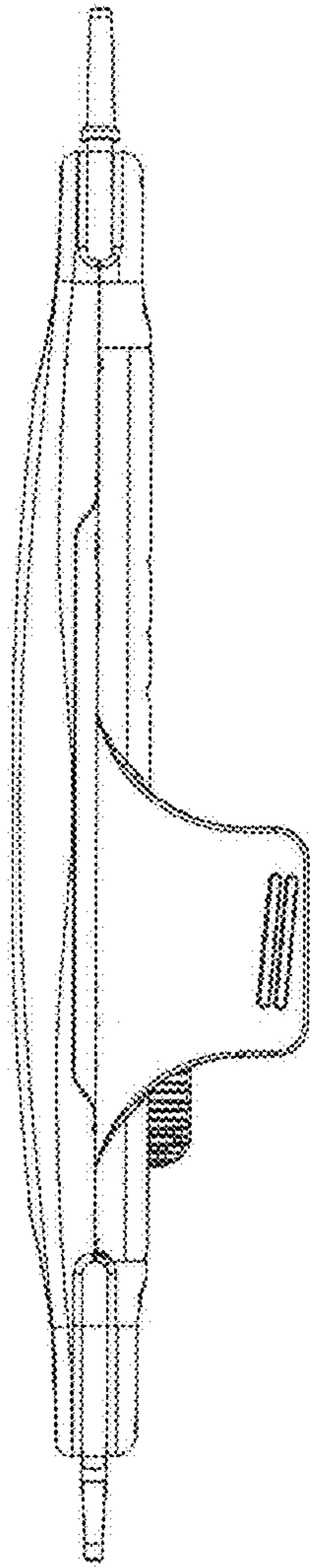


FIG. 5

FIG. 4

