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

(10) **Patent No.:** **US D705,134 S**
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(54) **WHEELCHAIR HANDLEBARS**
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RE30,954 E 6/1982 Smith et al.
4,486,048 A 12/1984 Meyer
4,572,577 A 2/1986 LaRue
4,593,929 A 6/1986 Williams
4,707,026 A 11/1987 Johansson
4,722,572 A 2/1988 Sata
4,733,755 A 3/1988 Manning
4,770,467 A 9/1988 Zinn
4,790,553 A 12/1988 Okamoto
4,805,259 A 2/1989 Kassai

(Continued)

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

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(21) Appl. No.: **29/428,117**

(57) **CLAIM**

The ornamental design for wheelchair handlebars, as shown and described.

(22) Filed: **Jul. 26, 2012**

(51) **LOC (10) Cl.** **12-12**

(52) **U.S. Cl.**

USPC **D12/133**

(58) **Field of Classification Search**

USPC D12/128–133; 280/62, 647–650, 29, 280/200, 47.38, 250.1, 259, 642, 658, 280/304.1; 128/99.1, 100.1, 102.1, 876, 128/877

See application file for complete search history.

DESCRIPTION

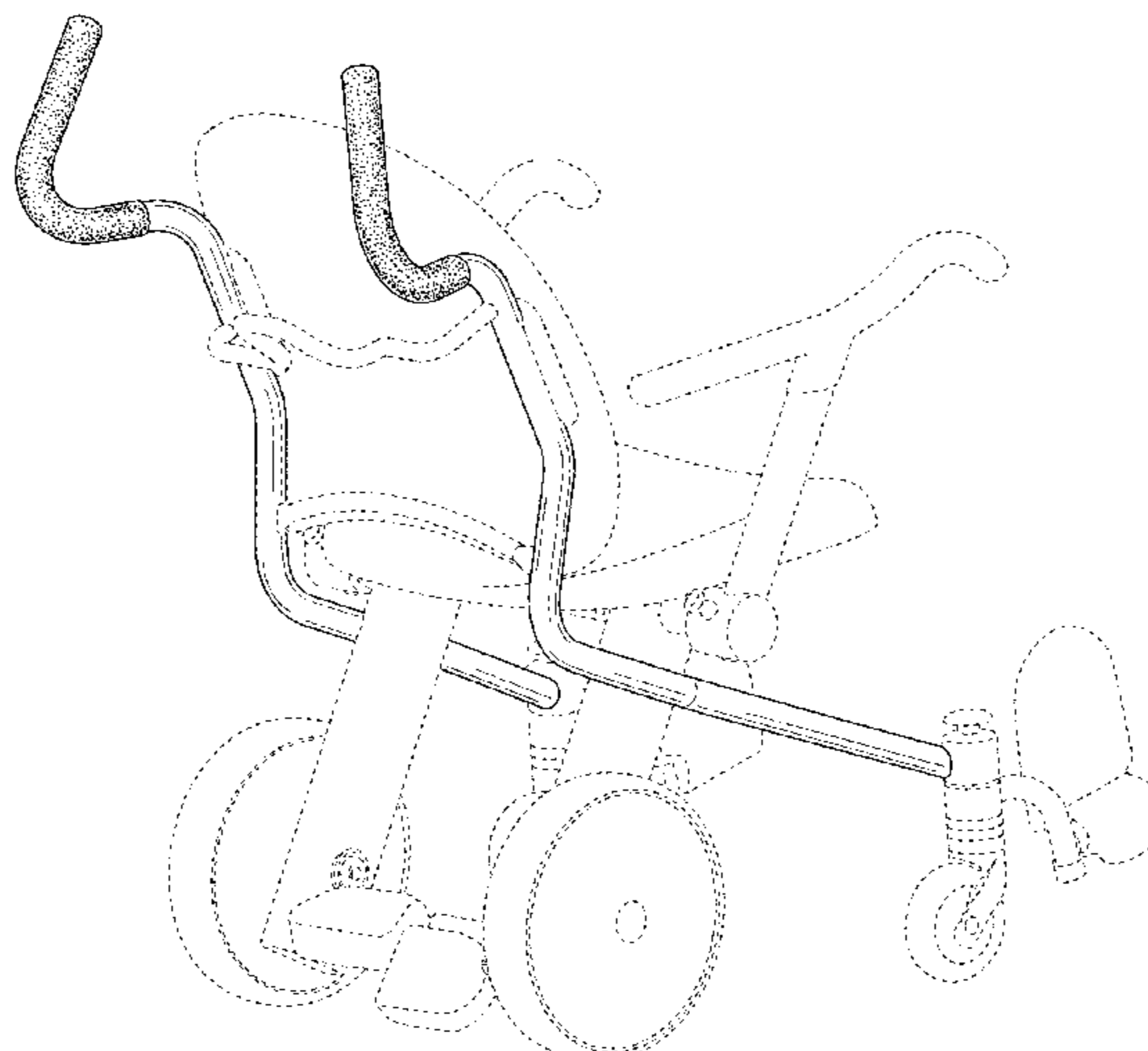
FIG. 1 is a rear perspective view of wheelchair handlebars showing our new design;
FIG. 2 is a front perspective view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a left side elevation view thereof, the right side being a mirror image;
FIG. 5 is a front elevation view thereof;
FIG. 6 is a plan view thereof;
FIG. 7 is a bottom view thereof;
FIG. 8 is a front perspective view thereof, the unclaimed environment removed for ease of illustration;
FIG. 9 is a right side elevation view thereof, the left side being a mirror image;
FIG. 10 is a front elevation view thereof;
FIG. 11 is a rear elevation view thereof;
FIG. 12 is a plan view thereof; and,
FIG. 13 is a bottom view thereof.
The broken line showing of the wheelchair is included for the purpose of illustrating environment and forms no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

371,373 A	10/1887	Scarritt
902,092 A	10/1908	Latimer
1,856,297 A	5/1932	Marie et al.
2,591,246 A	4/1952	Everest et al.
2,609,864 A	9/1952	Gates, Jr.
2,746,527 A	5/1956	Liebich
2,841,208 A	7/1958	Duke
3,185,527 A	5/1965	Pivacek
3,854,774 A	12/1974	Limpach
3,857,606 A	12/1974	Rodaway
3,990,744 A	11/1976	Rodaway
4,176,879 A	12/1979	Rodaway

1 Claim, 13 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,953,667 A	9/1990	Bigo	6,883,871 B2	4/2005	Nae et al.
4,985,960 A	1/1991	Zun	7,036,838 B2	5/2006	Leffler
4,988,114 A	1/1991	Thornton, Jr. et al.	7,175,004 B2	2/2007	Kassai et al.
4,997,066 A	3/1991	Bigo	7,185,952 B1	3/2007	Chen et al.
5,112,076 A	5/1992	Wilson	7,243,997 B1	7/2007	Tornero
5,191,675 A	3/1993	Ishikura	7,367,432 B2 *	5/2008	Chen 188/19
5,242,138 A	9/1993	Kornberg	7,367,578 B2	5/2008	Jansen
5,370,408 A	12/1994	Eagan	7,404,567 B2	7/2008	Moller
5,378,041 A	1/1995	Lee	7,487,989 B2	2/2009	Crosby, II
5,379,866 A	1/1995	Pearce et al.	7,527,335 B2	5/2009	Eberlein et al.
5,415,459 A	5/1995	Schultz	7,537,093 B2	5/2009	Chen
5,419,571 A	5/1995	Vaughan	D598,816 S *	8/2009	Ahlbertz D12/131
5,713,591 A	2/1998	Zarkhin et al.	7,571,966 B2 *	8/2009	Chen et al. 301/111.01
5,765,665 A	6/1998	Cheng et al.	7,635,142 B2	12/2009	Slagerman
5,984,334 A	11/1999	Dugas	7,708,119 B2	5/2010	Chen
6,022,042 A	2/2000	Hartenstine	7,832,805 B1	11/2010	Lai
6,053,578 A	4/2000	van Hekken et al.	7,988,171 B2	8/2011	Chong
6,203,101 B1	3/2001	Chou et al.	8,104,838 B2 *	1/2012	Tsai 297/411.37
D439,869 S	4/2001	Kjell et al.	D665,587 S *	8/2012	Lloyd et al. D6/335
6,234,576 B1	5/2001	Fleigle	8,490,757 B2 *	7/2013	Chen et al. 188/20
6,234,576 B1	5/2001	Fleigle	D688,907 S *	9/2013	Smith et al. D6/716.2
6,264,007 B1	7/2001	Norton et al.	2004/0099487 A1	5/2004	Melgarejo
6,273,443 B1	8/2001	Fleigle	2004/0178025 A1	9/2004	Zweideck
6,296,313 B1	10/2001	Wu	2006/0151259 A1	7/2006	Tomasi et al.
6,341,671 B1	1/2002	Ebersole	2006/0261659 A1	11/2006	Dykes
6,352,138 B1	3/2002	Duran et al.	2007/0057561 A1	3/2007	Liao
6,352,307 B1	3/2002	Engman	2009/0085317 A1	4/2009	Livengood et al.
6,499,756 B2	12/2002	Amirola	2010/0007114 A1	1/2010	Papi et al.
6,572,195 B1	6/2003	Lee	2010/0025969 A1	2/2010	Kent et al.
6,578,915 B2	6/2003	Jonas et al.	2010/0123346 A1	5/2010	Lin
6,598,712 B1	7/2003	Sun	2010/0301574 A1	12/2010	Derks et al.
6,659,560 B1	12/2003	Chi	2011/0175329 A1	7/2011	Gingras et al.
			2011/0227314 A1	9/2011	Lowenthal et al.

* cited by examiner

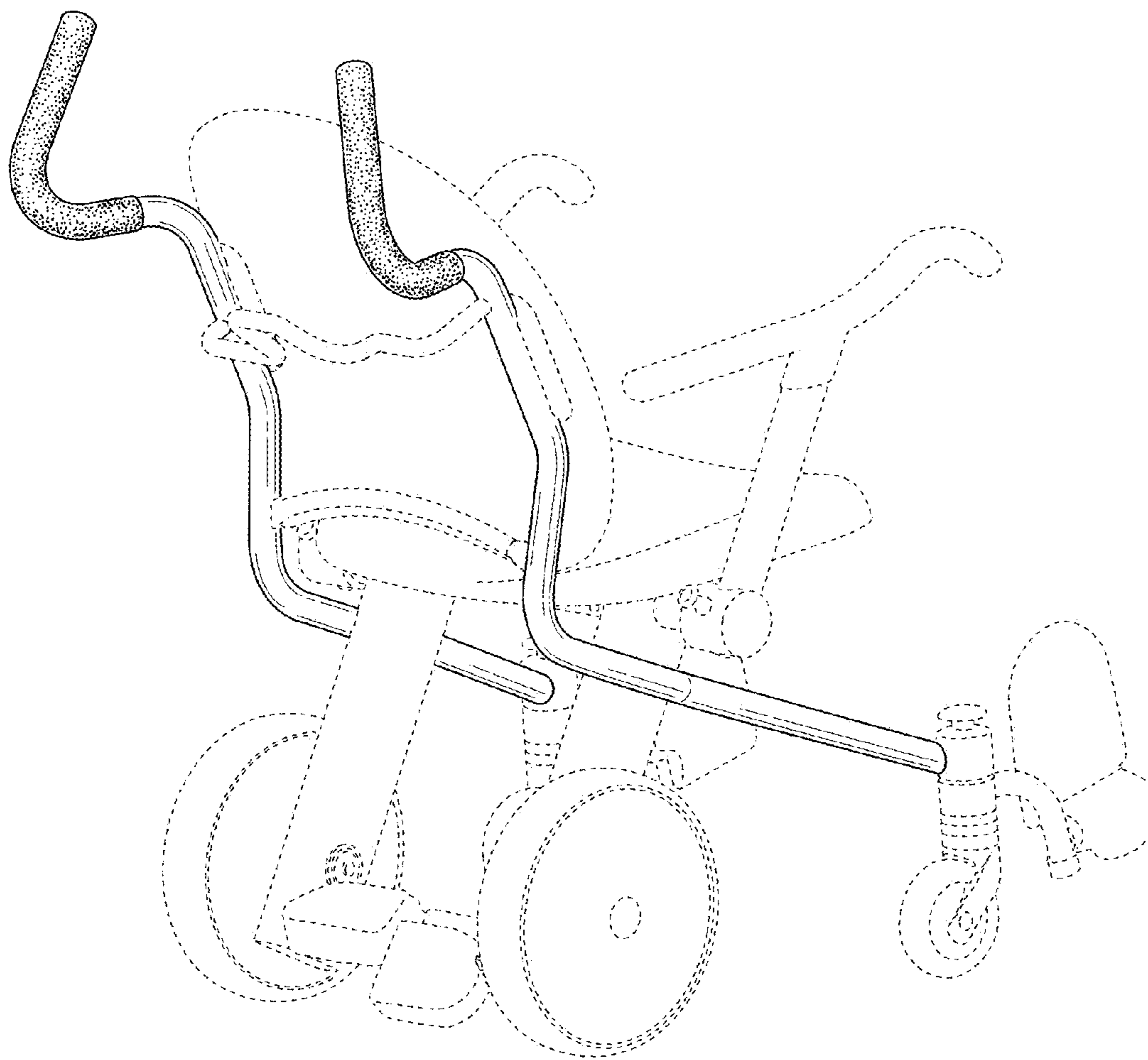


FIG. 1

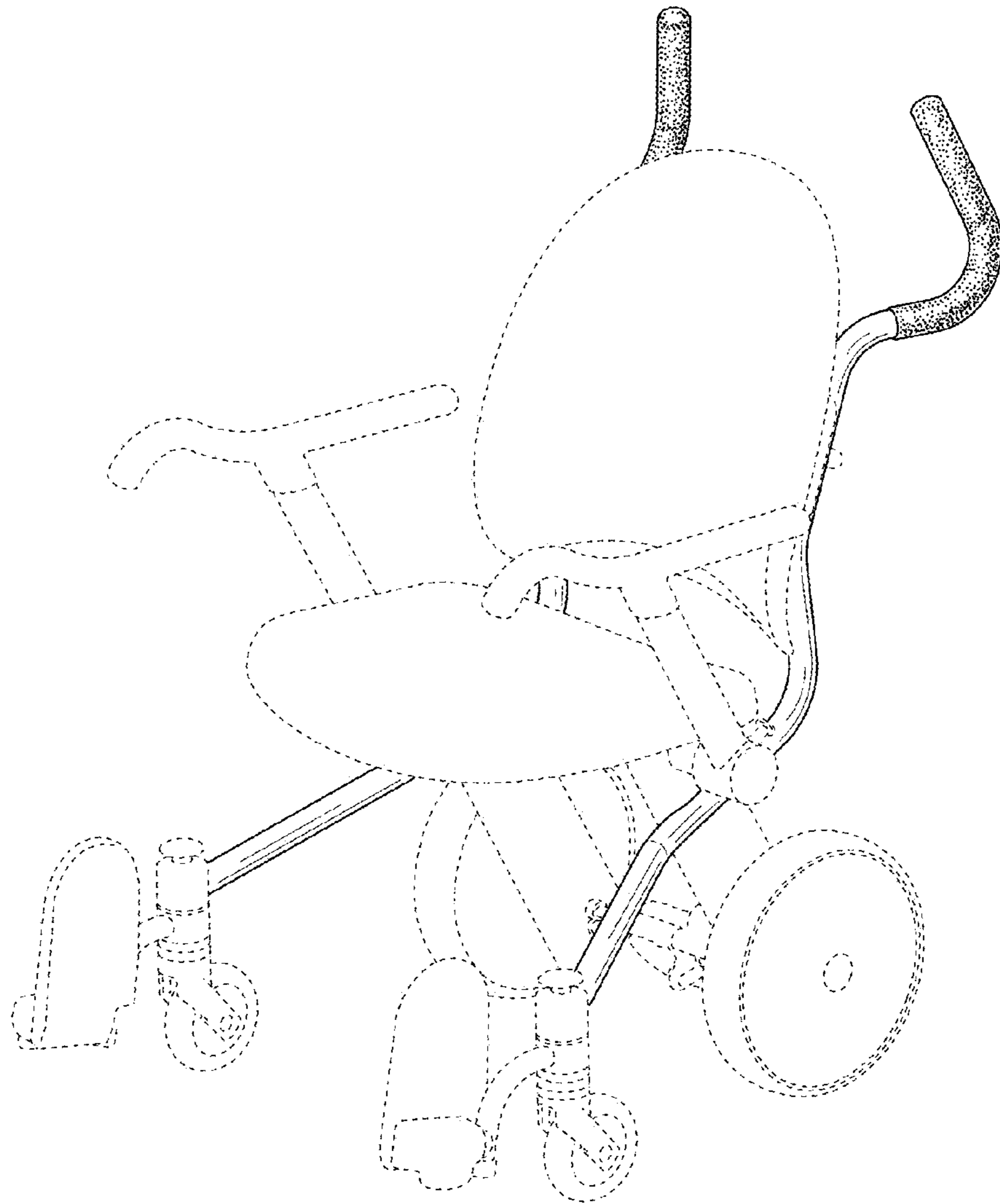


FIG. 2

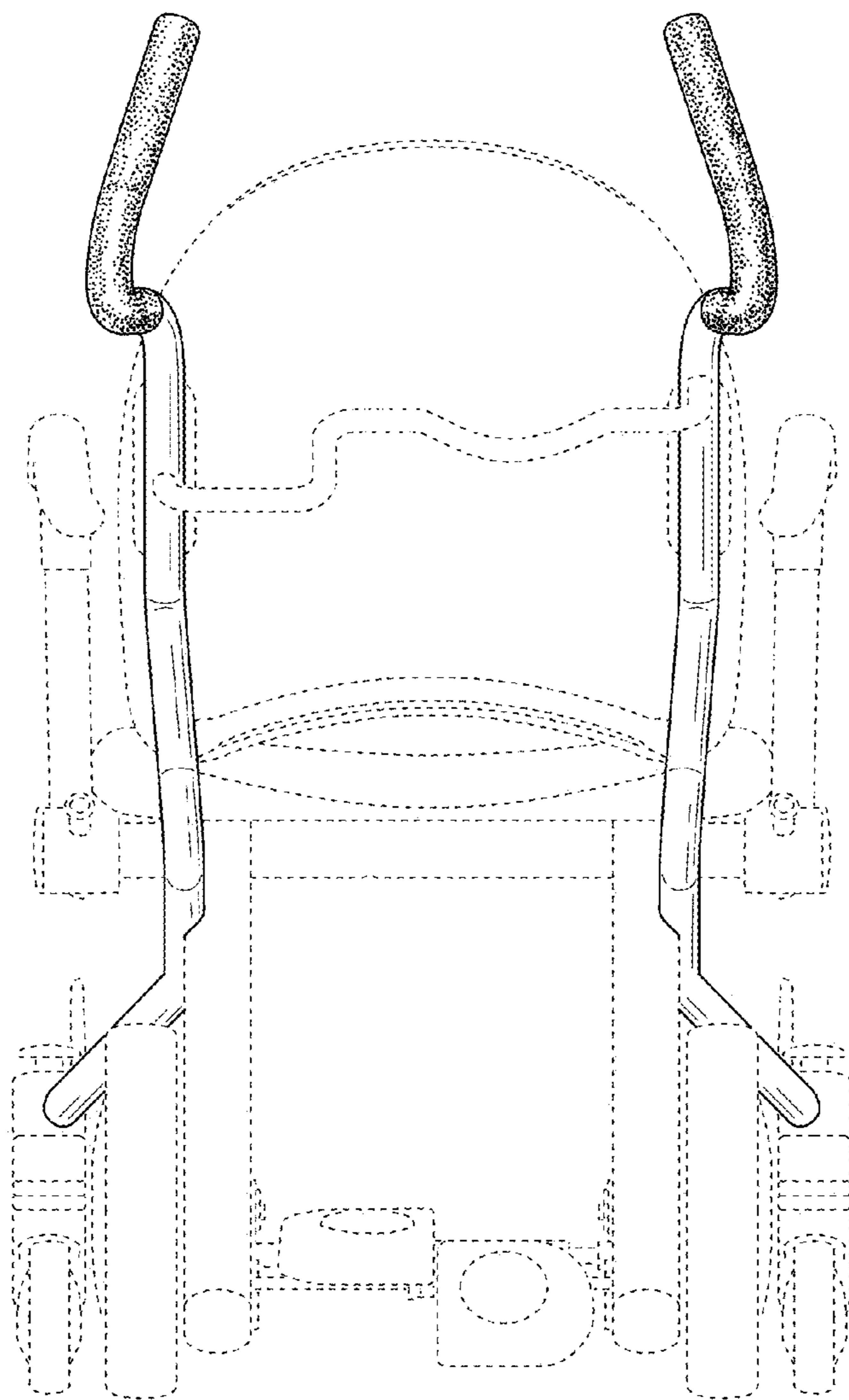


FIG. 3

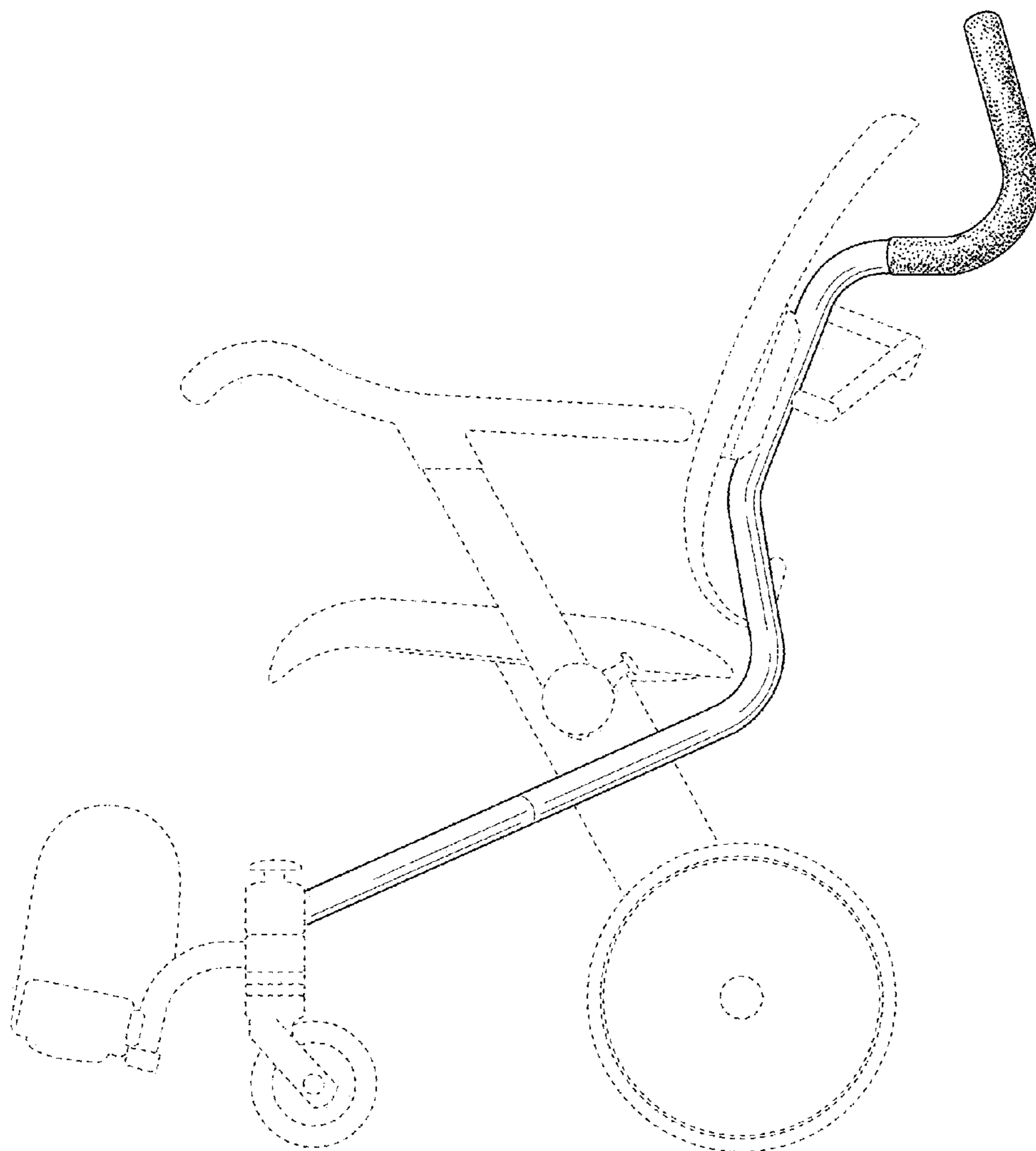


FIG. 4

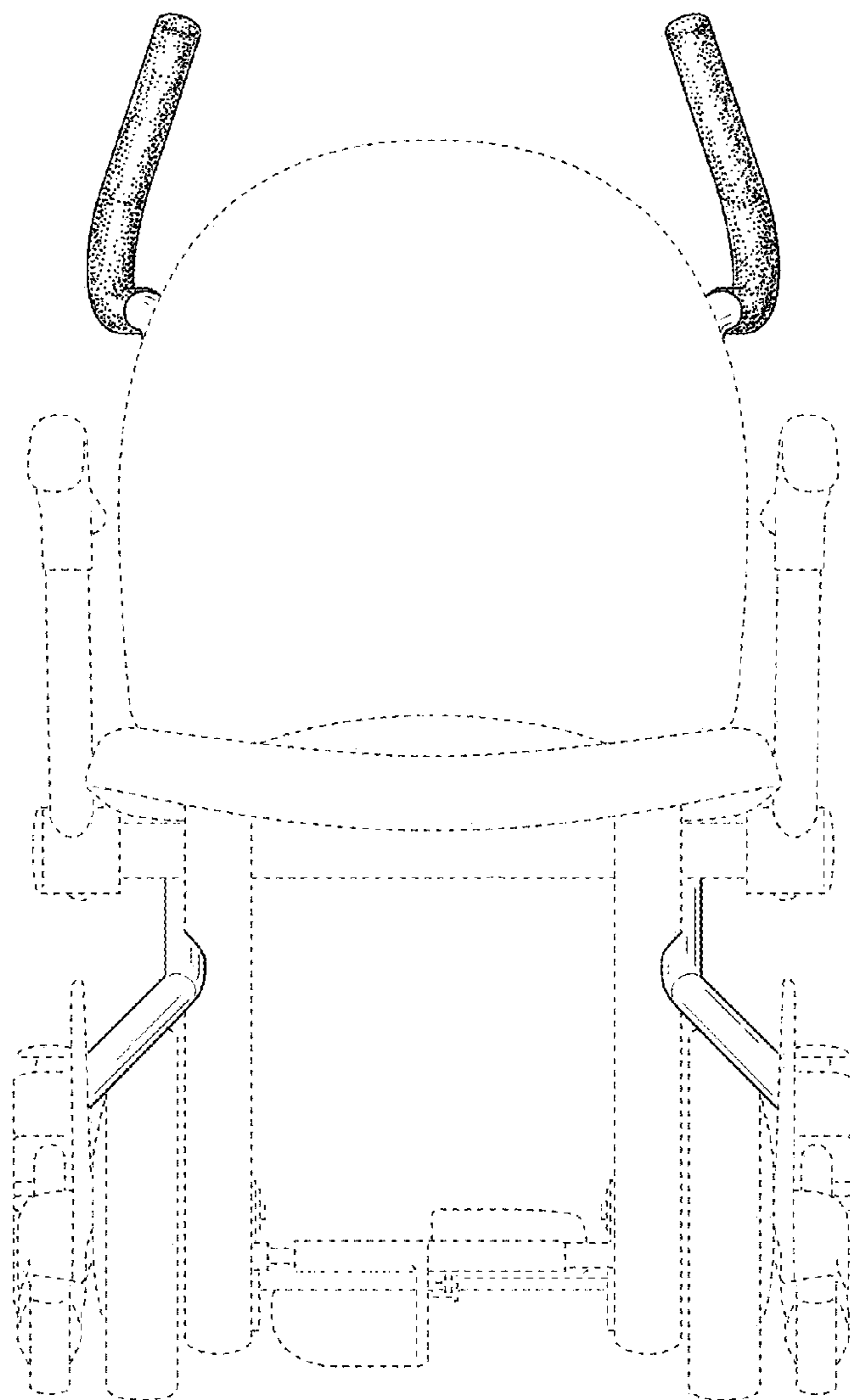


FIG. 5

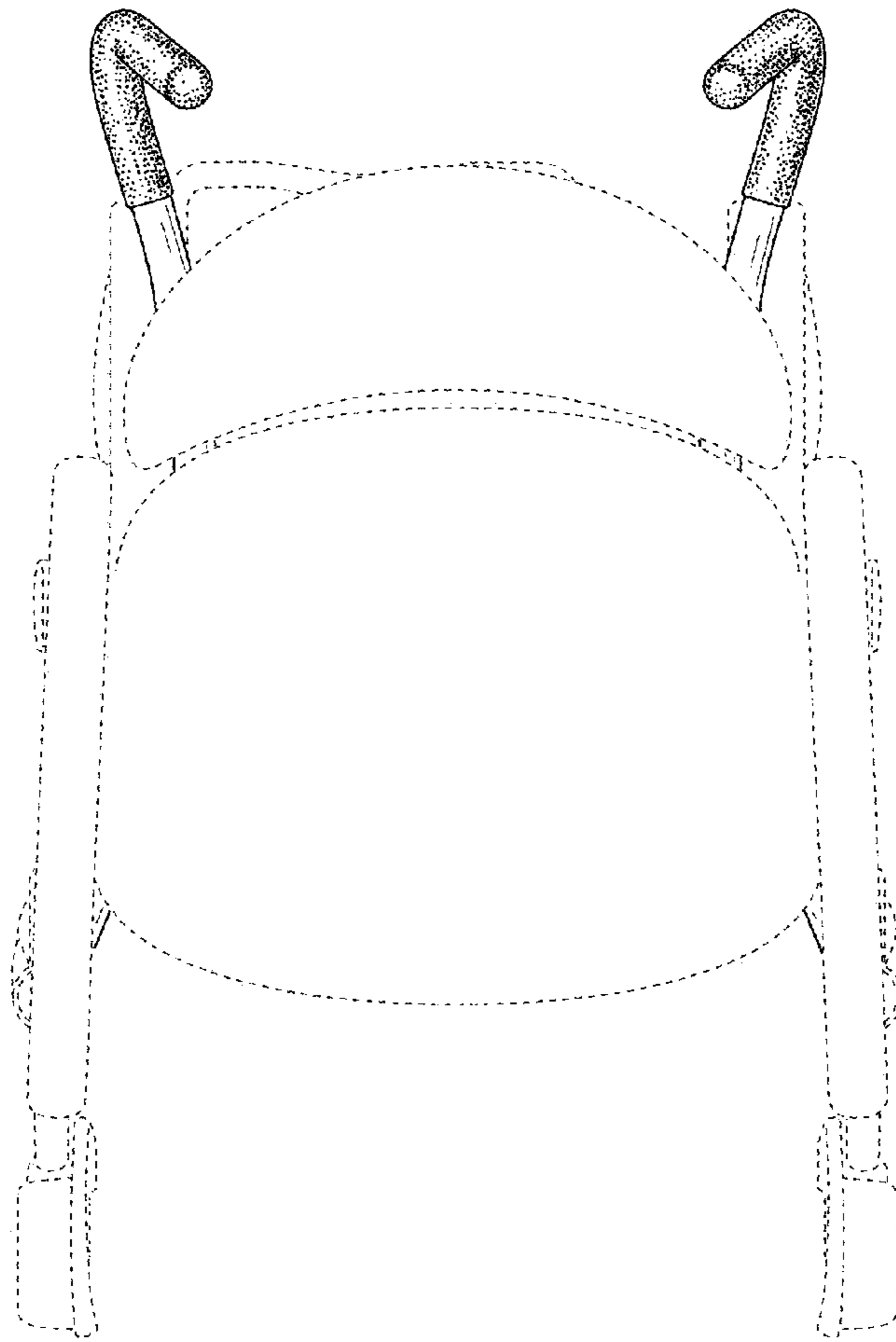


FIG. 6

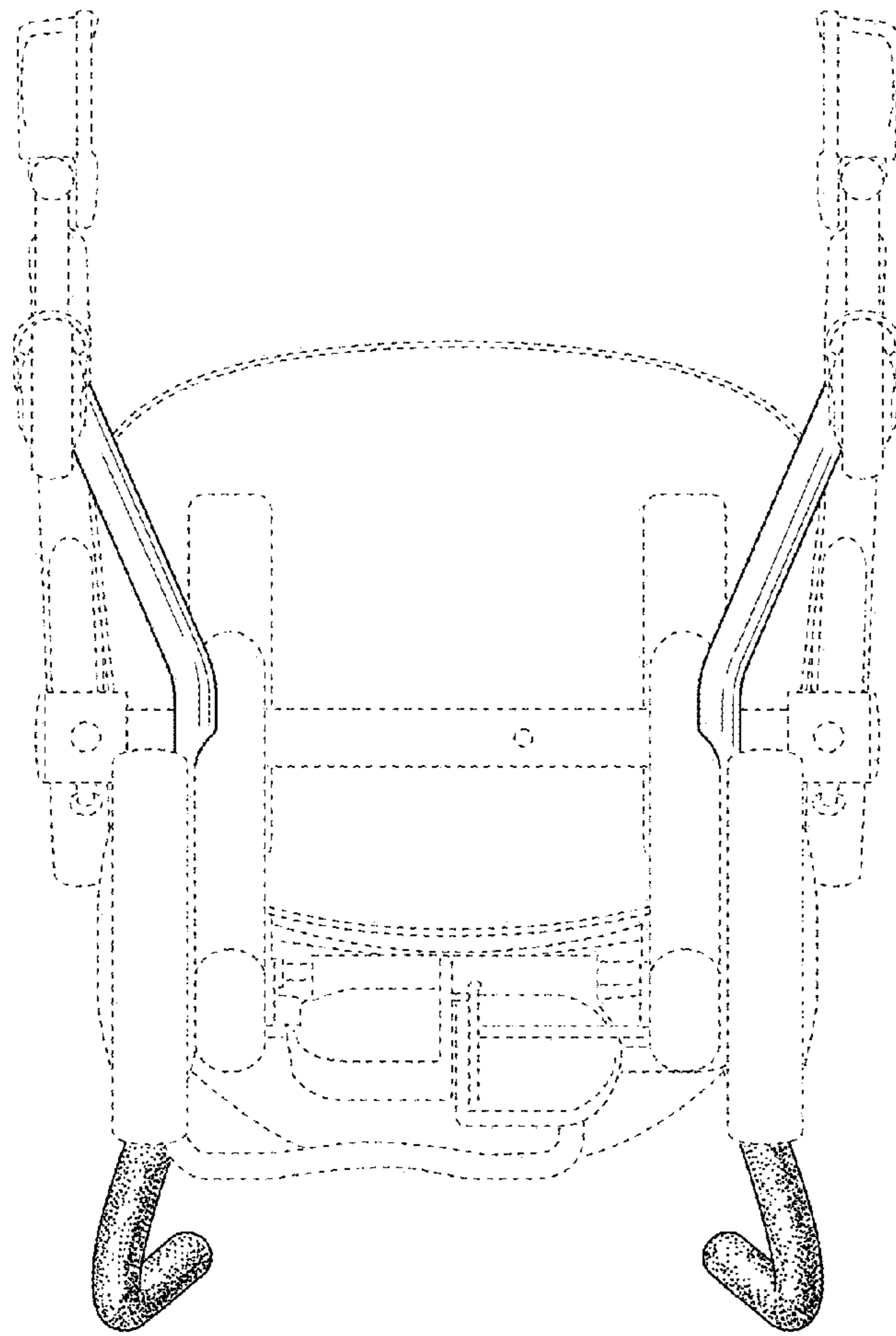


FIG. 7

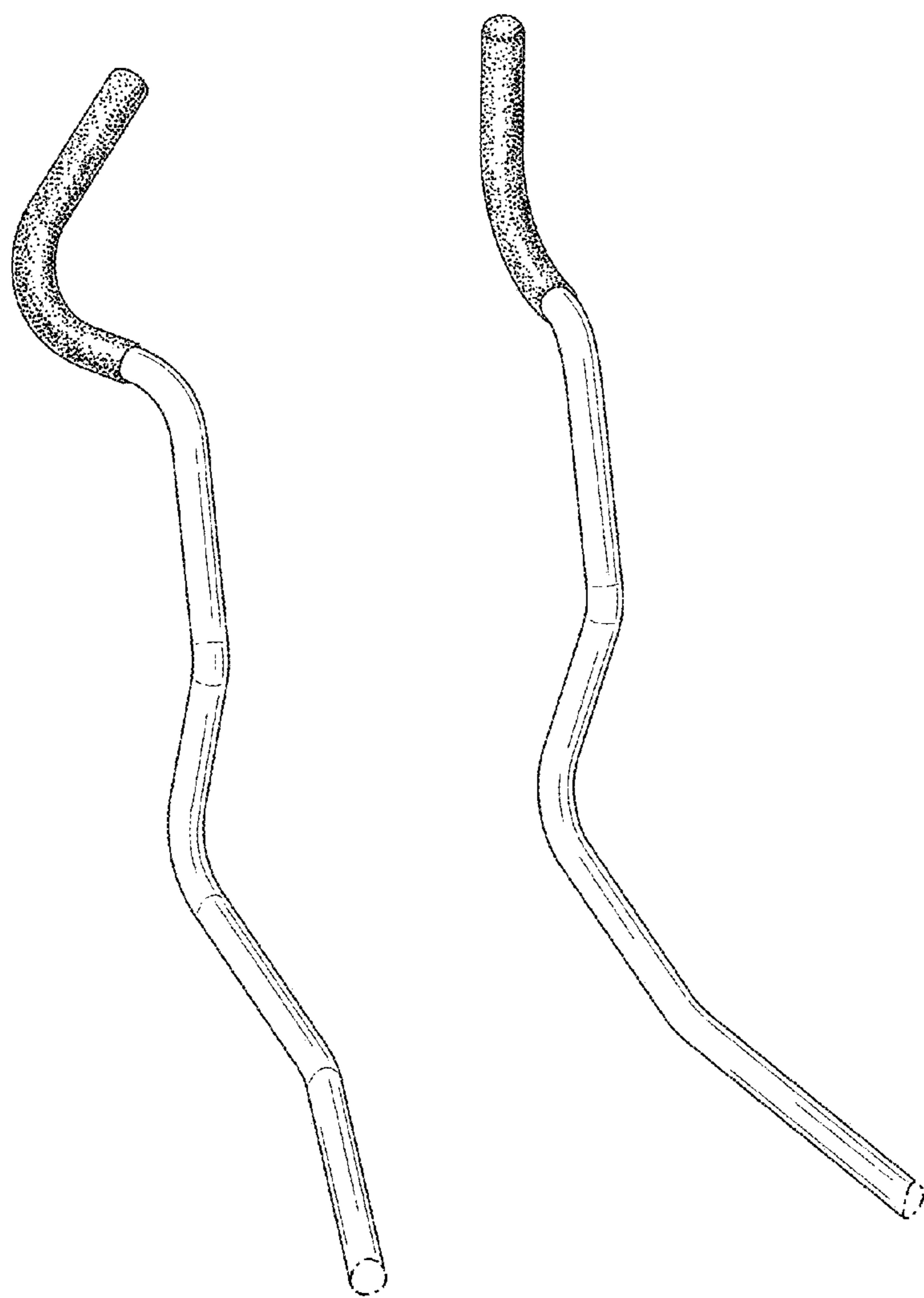


FIG. 8

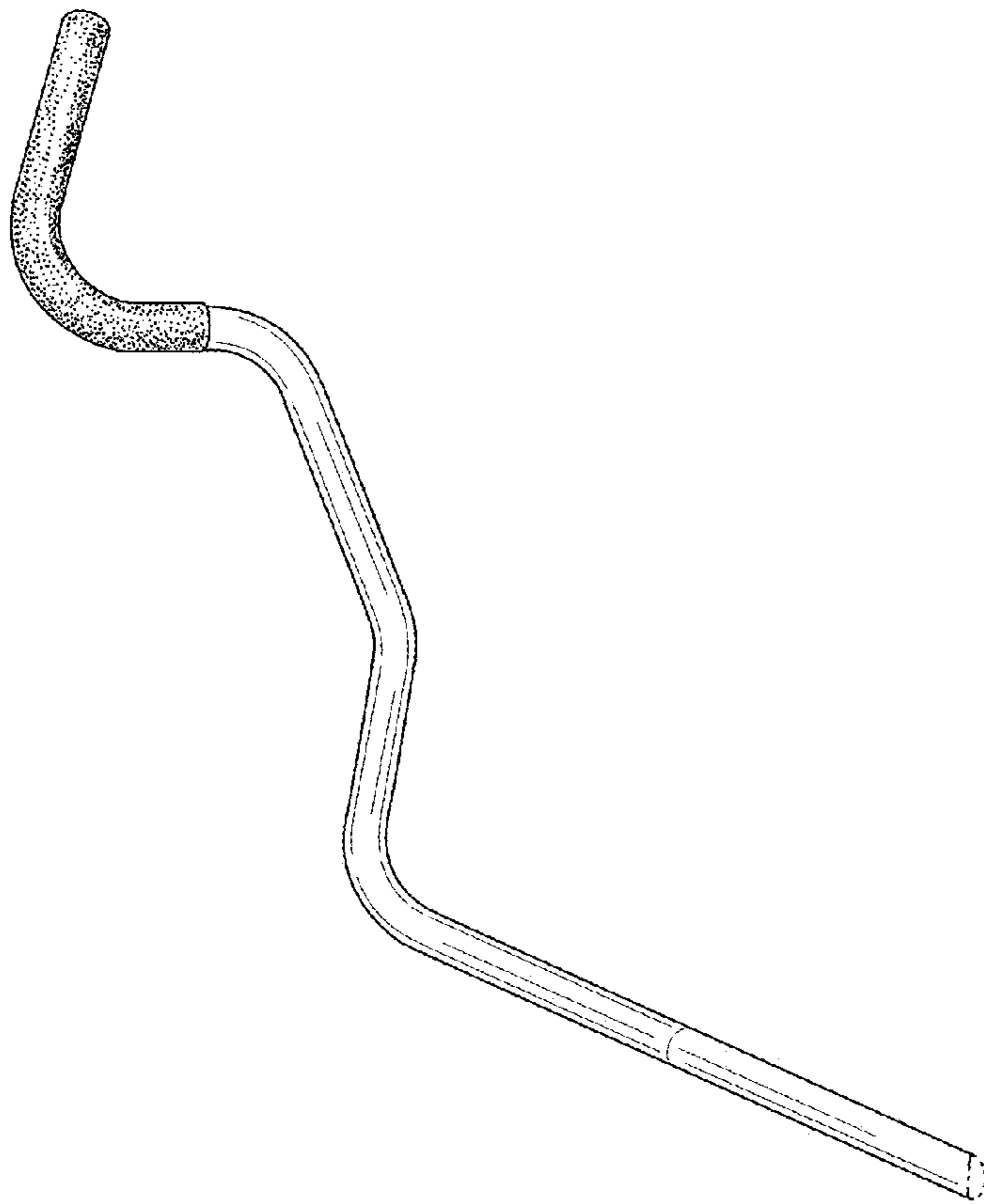


FIG. 9

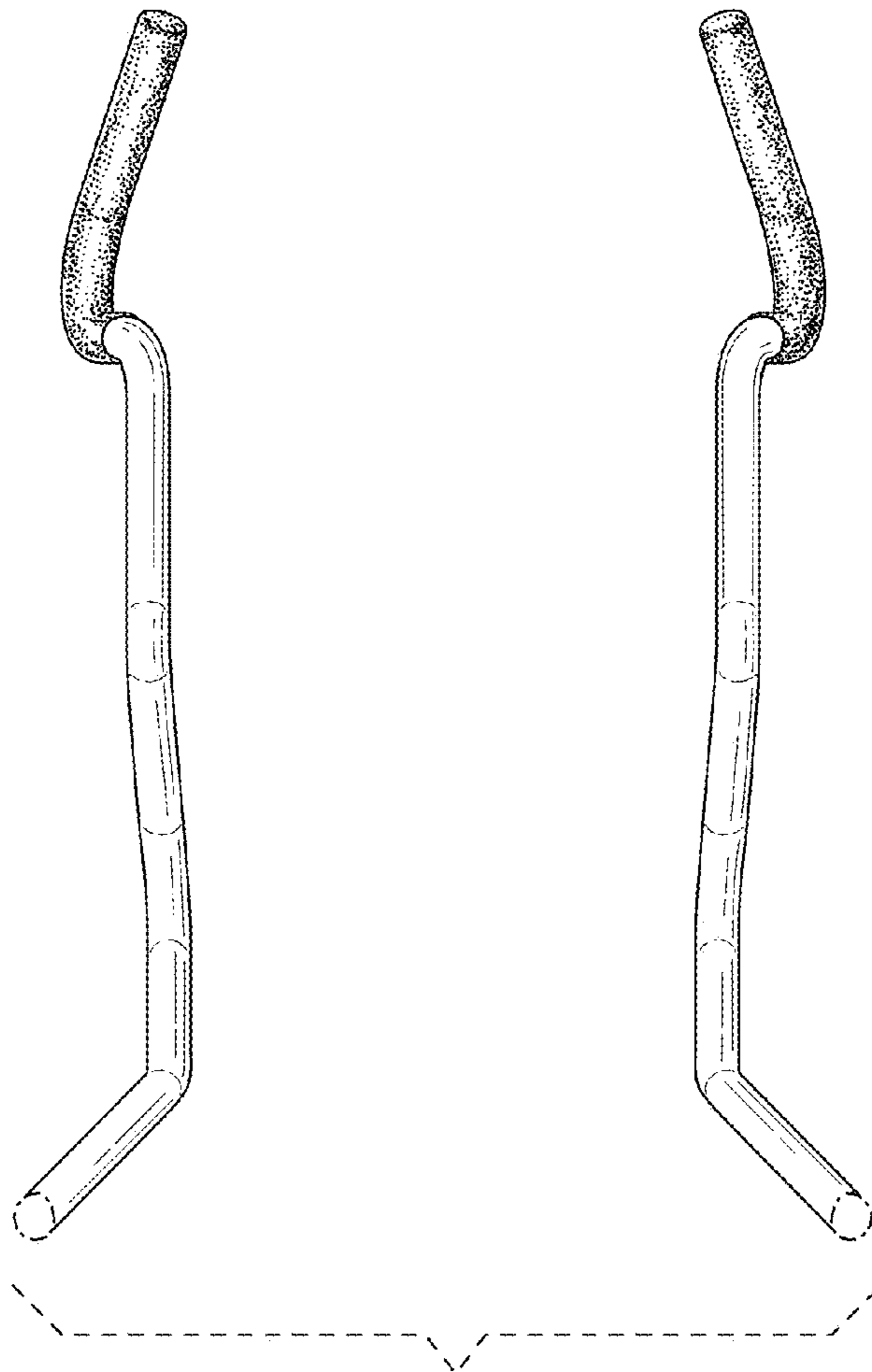


FIG. 10

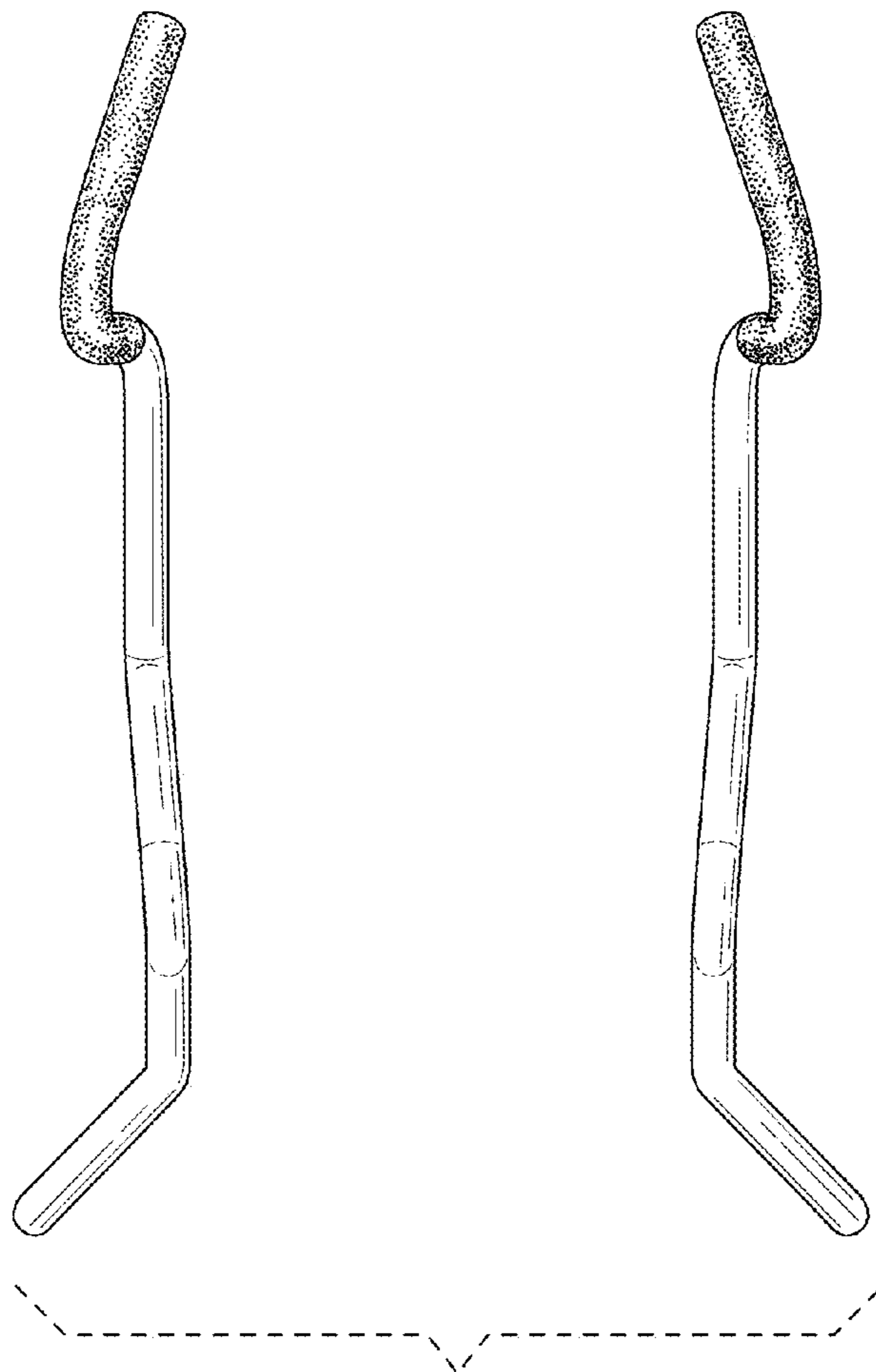


FIG. 11

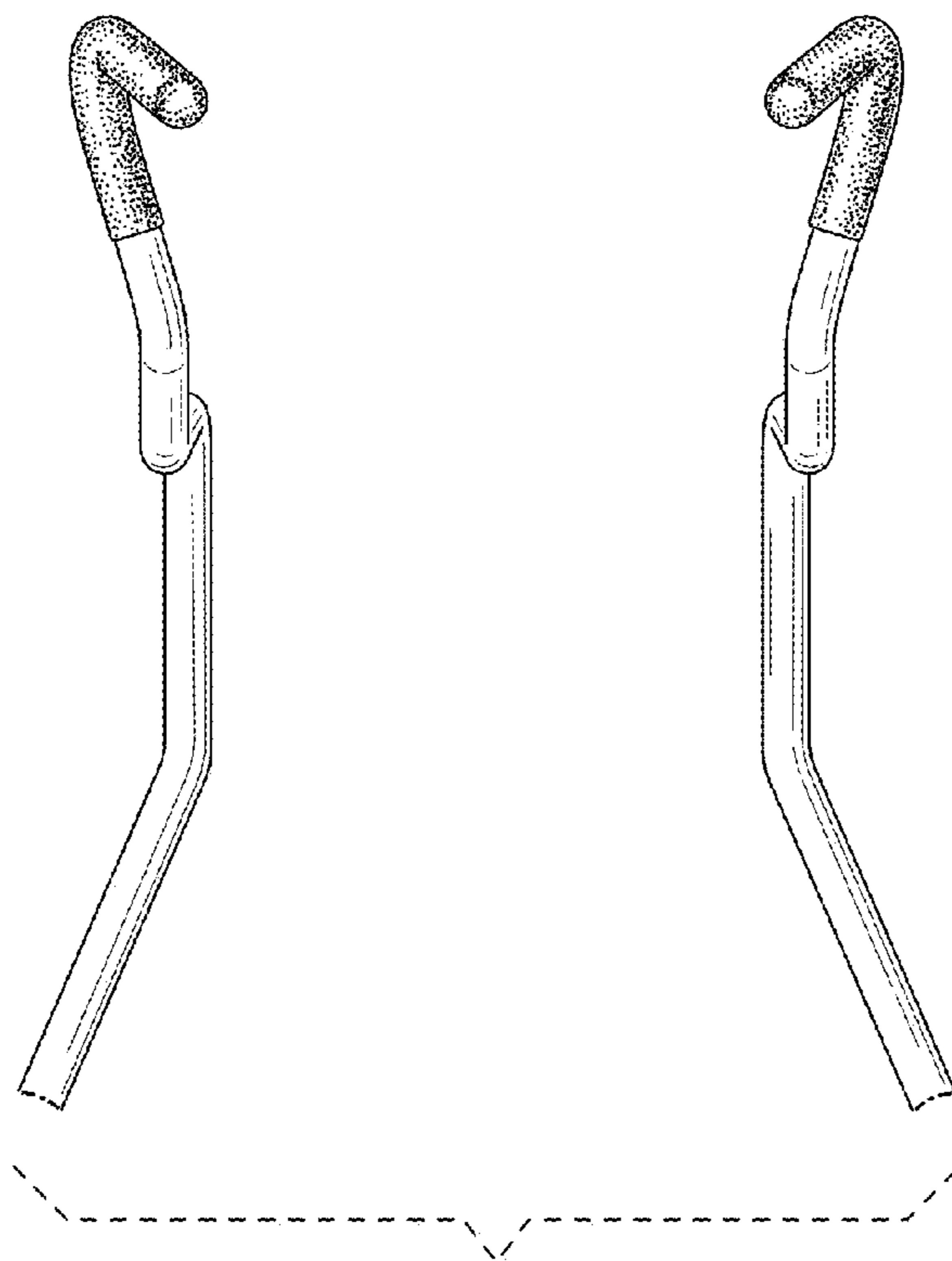


FIG. 12

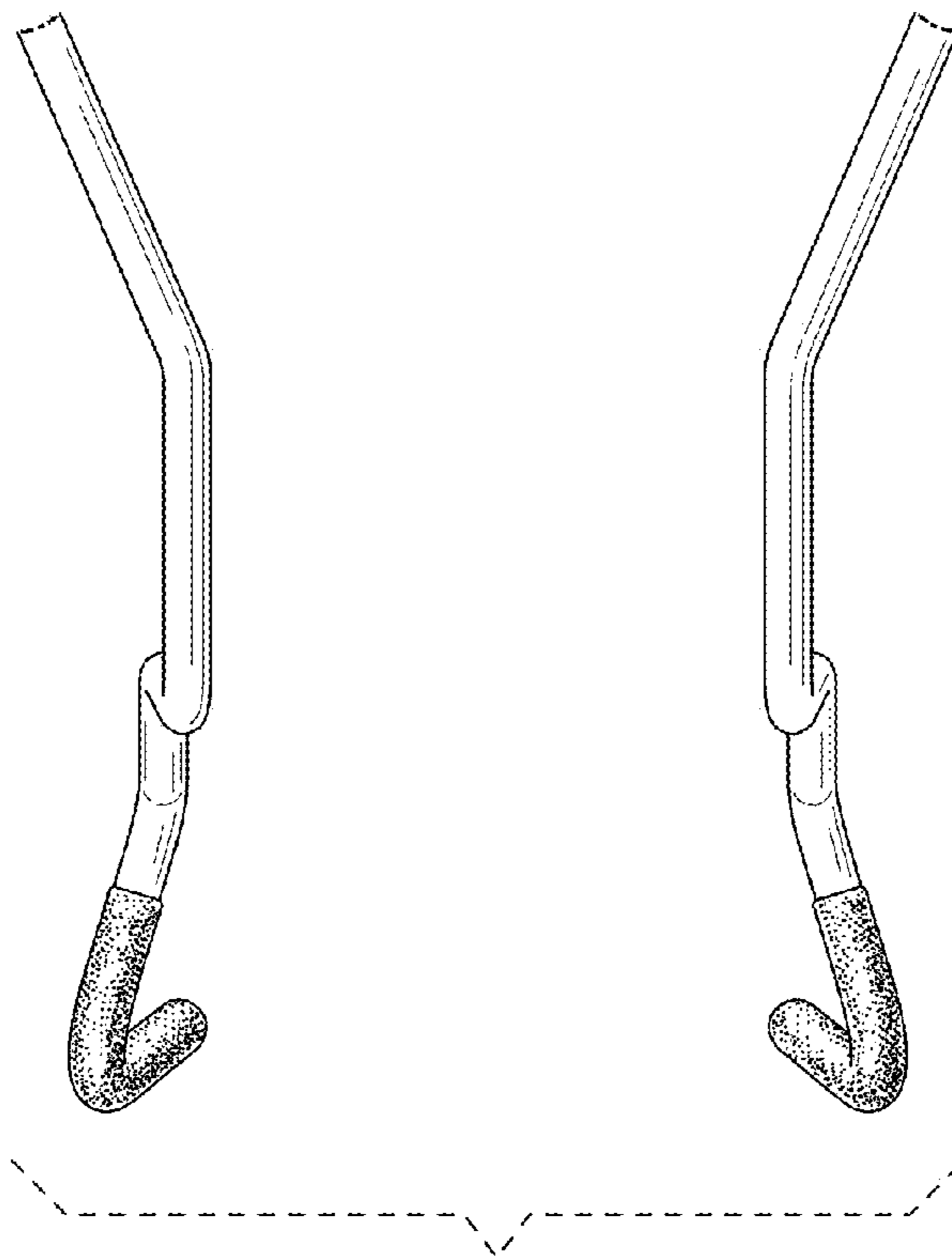


FIG. 13