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Olsen et al.

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(54) WHEEL WITH CARRIAGE

FOREIGN PATENT DOCUMENTS

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CN 107495816 A 12/2017
CN 108903569 A 11/2018

(Continued)

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OTHER PUBLICATIONS

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Yap, Jules. "Hack a ceiling track for shower curtain", IKEAHackers; <https://ikeahackers.net/2013/10/hack-a-ceiling-track-for-shower-curtain.html>; Oct. 17, 2013. 6 pages.

(Continued)

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Assistant Examiner — Kayla Marie Bennett

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(52) U.S. Cl.

USPC D8/373

(58) Field of Classification Search

(57) CLAIM

USPC D8/349, 354, 373, 377, 382, 499, 370,
D8/371; D12/101, 102, 105, 106, 400,
D12/401, 403, 223; D25/48.4, 48.5, 48.7,
D25/39

The ornamental design for a wheel with carriage, as shown and described.

CPC A47H 15/02; A47H 2001/045;
Y10T 16/355; Y10T 16/375; Y10T
16/373; Y10T 16/376; Y10T 16/3813;
Y10T 16/3825; E06B 9/32; E06B 9/361;
E05D 15/0608; E05Y 2900/20; E05Y
2800/00; E01B 2202/025

DESCRIPTION

See application file for complete search history.

FIG. 1 is a top front perspective view of a wheel with carriage shown in an environment of use.
FIG. 2 is a top front perspective view thereof.
FIG. 3 is a front view thereof.
FIG. 4 is a rear view thereof.
FIG. 5 is a left-side view thereof.
FIG. 6 is a right-side view thereof.
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.

The broken lines shown in FIG. 1 are for purposes of illustrating environmental subject matter only and forms no part of the claimed design; the additional broken lines shown in FIGS. 1-8 are for purposes of illustrating portions of the wheel with carriage that forms no part thereof.

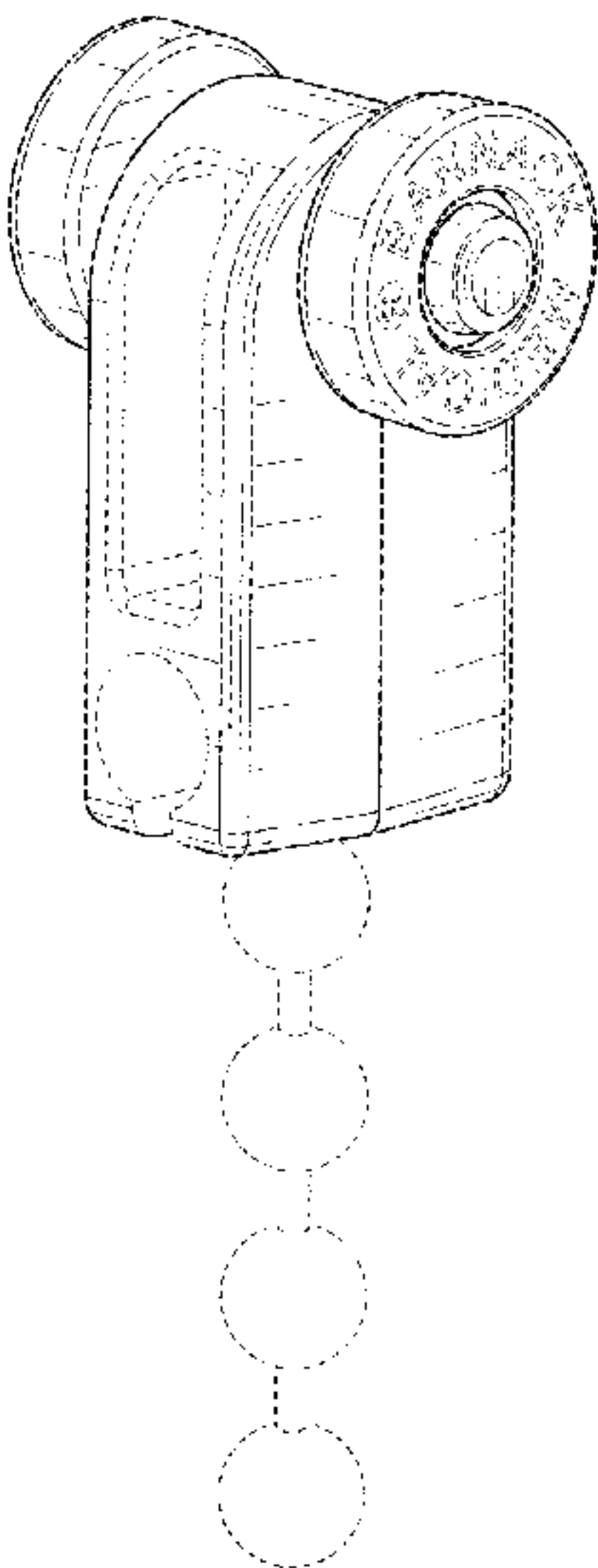
(56) References Cited

U.S. PATENT DOCUMENTS

1,571,394 A 2/1926 Chalmer
2,405,020 A * 7/1946 Dierking A47H 15/02
16/87.8
2,741,923 A 4/1956 Bradley
3,107,947 A * 10/1963 Hulterstrum E05D 15/0639
301/1
3,142,858 A 8/1964 Bieda

(Continued)

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,585,674 A 6/1971 Golden
3,616,486 A 11/1971 Ford et al.
3,626,429 A 12/1971 Toder
3,971,601 A * 7/1976 Sytsma B65G 17/20
16/98
4,023,235 A 5/1977 Cohen et al.
4,102,007 A 7/1978 Janson
4,141,106 A * 2/1979 Dixon E05D 15/0613
16/104
4,203,511 A 5/1980 Uhing
4,228,738 A * 10/1980 Forshee B61B 12/02
248/548
4,229,857 A * 10/1980 Toder E05D 15/0608
16/98
4,302,865 A * 12/1981 Dixon E05D 15/0613
16/104
4,576,096 A * 3/1986 Toder B61H 7/04
188/42
4,643,238 A 2/1987 Tachikawa et al.
4,837,891 A * 6/1989 Toma E05D 15/0613
104/111
4,915,153 A 4/1990 Toti
5,016,318 A * 5/1991 Harris E05D 15/0608
160/206
D379,060 S * 5/1997 Laga D8/373
D379,427 S * 5/1997 Laga D8/373
6,098,695 A 8/2000 Schwingle
6,098,699 A 8/2000 Junius
6,564,851 B1 5/2003 Liao
6,618,900 B2 9/2003 Spork et al.
D492,580 S * 7/2004 Tyburk D8/373
6,820,306 B2 * 11/2004 Huang A47H 5/032
16/102
7,360,576 B2 * 4/2008 Lin A47H 5/0325
160/331
7,698,781 B2 * 4/2010 Cai A47H 15/02
16/106
7,909,491 B2 3/2011 Hoets et al.
8,307,499 B2 11/2012 Ruffo et al.
8,397,346 B2 3/2013 Peters et al.
9,125,509 B2 9/2015 Graneto, III
9,320,379 B2 4/2016 Sourain et al.
9,458,654 B2 * 10/2016 Palsson E05D 15/0634
9,480,357 B2 11/2016 Price et al.
D795,157 S * 8/2017 Biesenbruck D12/223
10,570,662 B2 * 2/2020 Miroshnichenko E06B 9/581
10,758,072 B2 9/2020 Hatton et al.
1,129,796 A1 4/2022 Alonso et al.
11,399,650 B2 8/2022 Ko
D962,751 S 9/2022 Olsen et al.
D962,752 S 9/2022 Olsen et al.
D962,753 S 9/2022 Olsen et al.
D982,422 S 4/2023 Olsen et al.

D1,011,869 S 1/2024 Olsen et al.
D1,012,551 S 1/2024 Olsen et al.
2004/0117945 A1 * 6/2004 Huang A47H 1/14
16/102
2005/0239588 A1 * 10/2005 Lin E06B 9/32
474/87
2007/0136986 A1 6/2007 Chen et al.
2009/0288785 A1 11/2009 Graneto, III
2010/0125987 A1 5/2010 Barkun
2012/0037324 A1 2/2012 Graneto, III
2012/0167350 A1 7/2012 Chou
2012/0198655 A1 8/2012 Lapping
2014/0026359 A1 1/2014 Borgerding et al.
2017/0231413 A1 8/2017 Schöpfer et al.
2017/0284155 A1 10/2017 Ganzi
2020/0080367 A1 3/2020 Daugaard
2022/0015564 A1 1/2022 Olsen et al.
2022/0015566 A1 1/2022 Olsen
2022/0049546 A1 2/2022 Daugaard
2022/0240707 A1 8/2022 Roberts et al.
2022/0265078 A1 8/2022 Hsu et al.
2022/0275682 A1 9/2022 Chuang
2022/0279954 A1 9/2022 Olsen et al.
2022/0322863 A1 * 10/2022 Olsen A47H 15/02
2023/0130071 A1 4/2023 Olsen et al.

FOREIGN PATENT DOCUMENTS

DE 102017010861 A1 5/2019
EP 3308680 A2 4/2018
FR 2333113 B1 3/1981
GB 2489485 A 10/2012
GB 2515504 A 12/2014
JP 2002165698 A 6/2002
JP 3562672 B2 9/2004
JP 2006314537 A 11/2006

OTHER PUBLICATIONS

Restriction Requirement (Mail Date Mar. 10, 2023) for U.S. Appl. No. 17/510,864, filed Oct. 26, 2021.
PCT International Search Report and Written Opinion of International Searching Authority mailed Mar. 15, 2023 corresponding to PCT International Application No. PCT/US22/46934 filed Oct. 18, 2022.
Notice of Allowance (Mail Date Mar. 27, 2023) for U.S. Appl. No. 29/813,043, filed Oct. 26, 2021.
Office Action (Mail Date Jun. 7, 2023) for U.S. Appl. No. 29/813,043, filed Oct. 26, 2021.
Notice of Allowance (Mail Date Mar. 27, 2023) for U.S. Appl. No. 29/813,033, filed Oct. 26, 2021.
Office Action (Mail Date Jun. 23, 2023) for U.S. Appl. No. 17/510,864, filed Oct. 26, 2021.

* cited by examiner

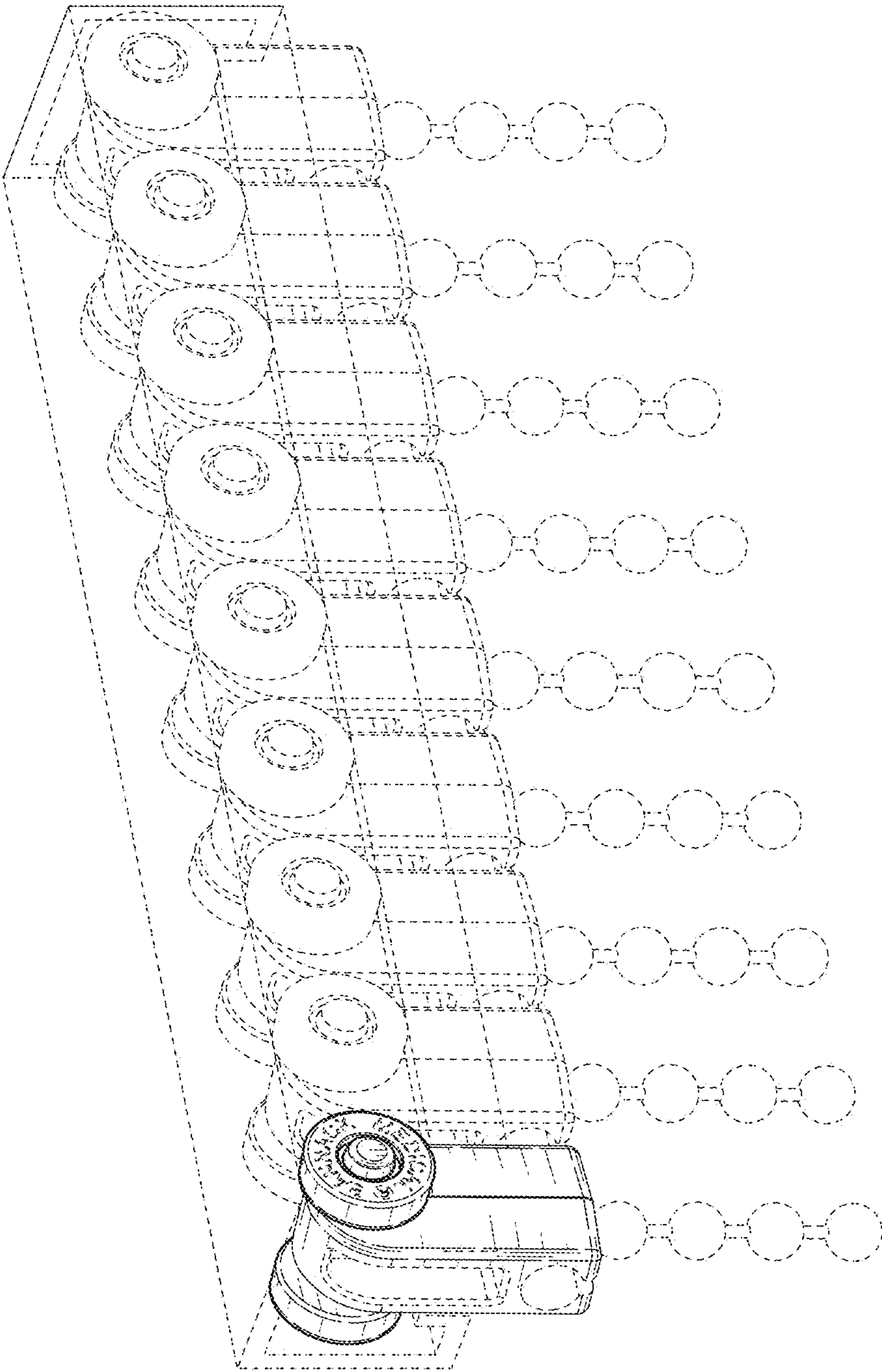


FIG. 1

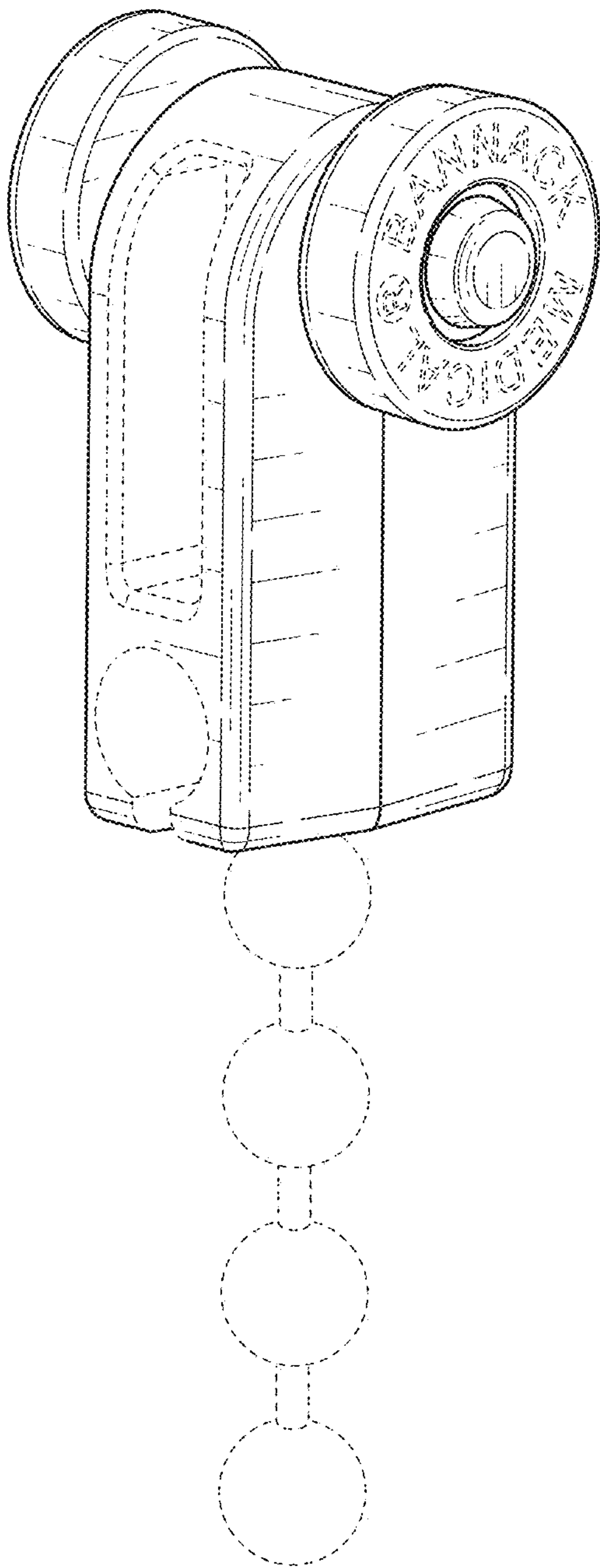


FIG. 2

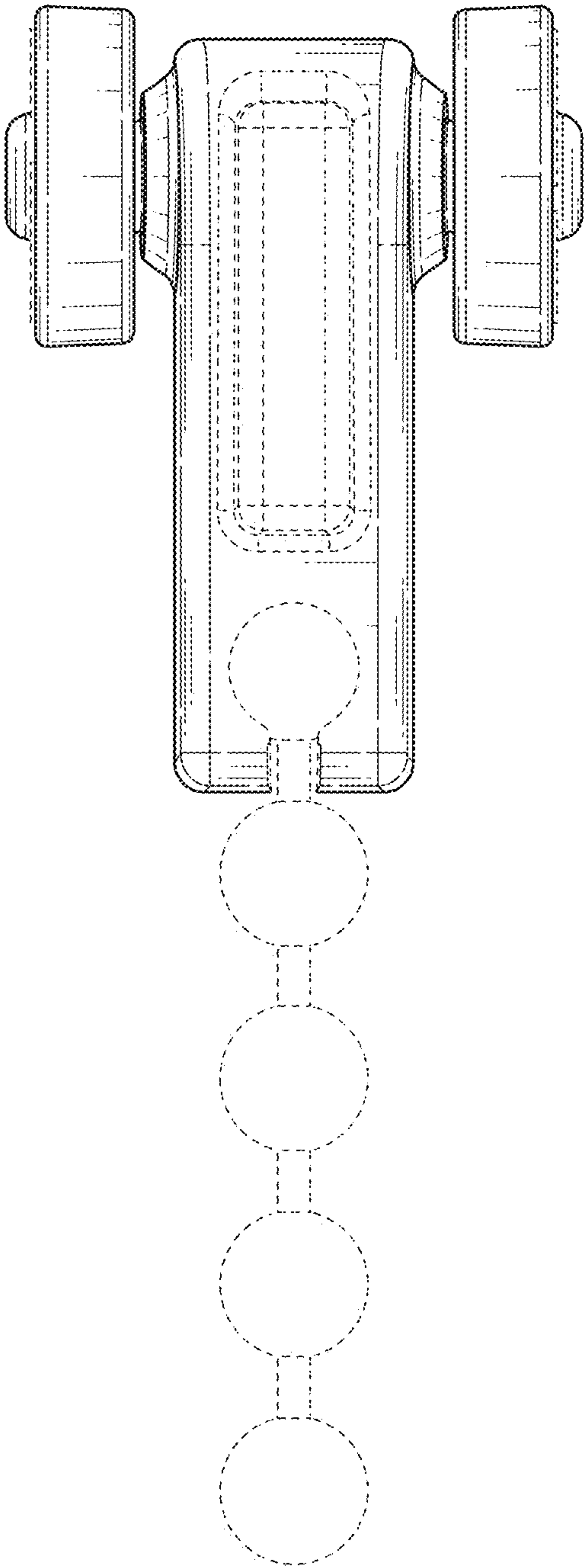


FIG. 3

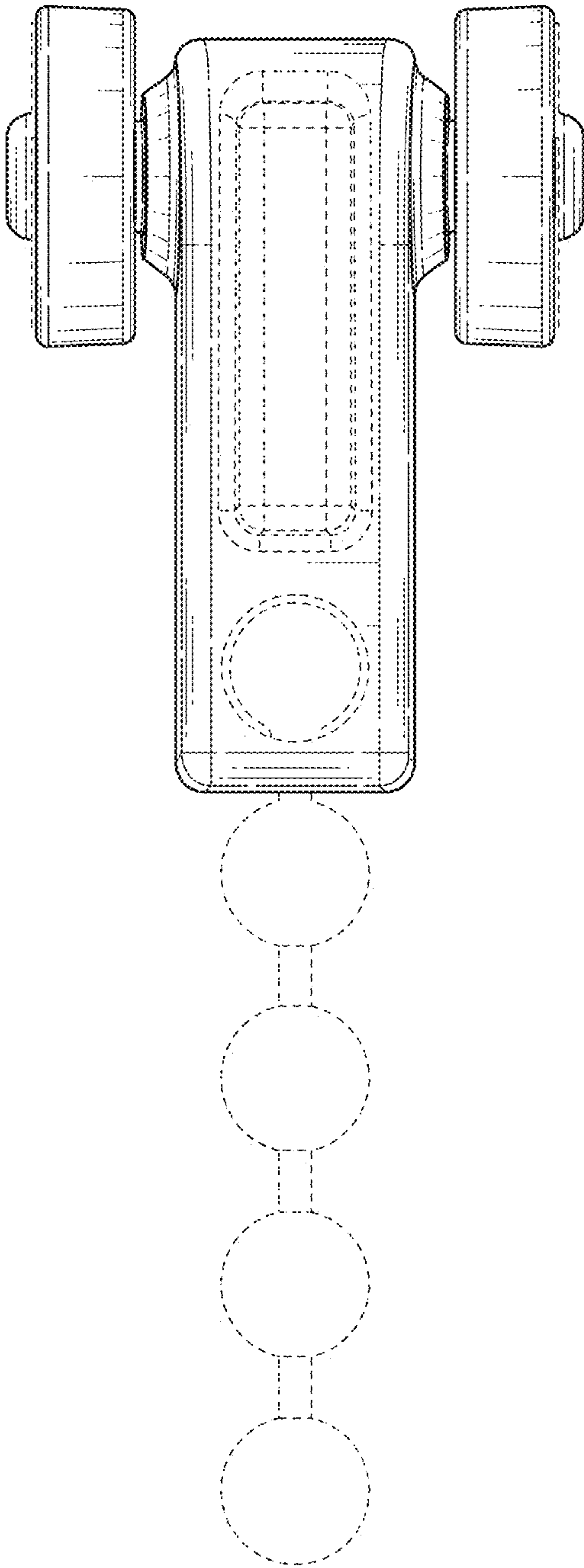


FIG. 4

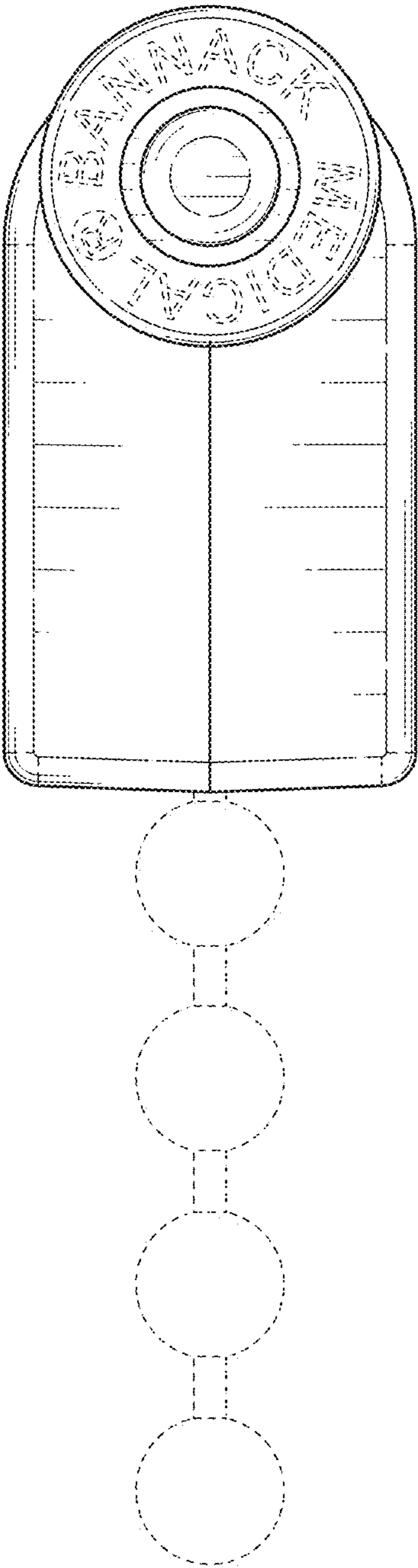


FIG. 5

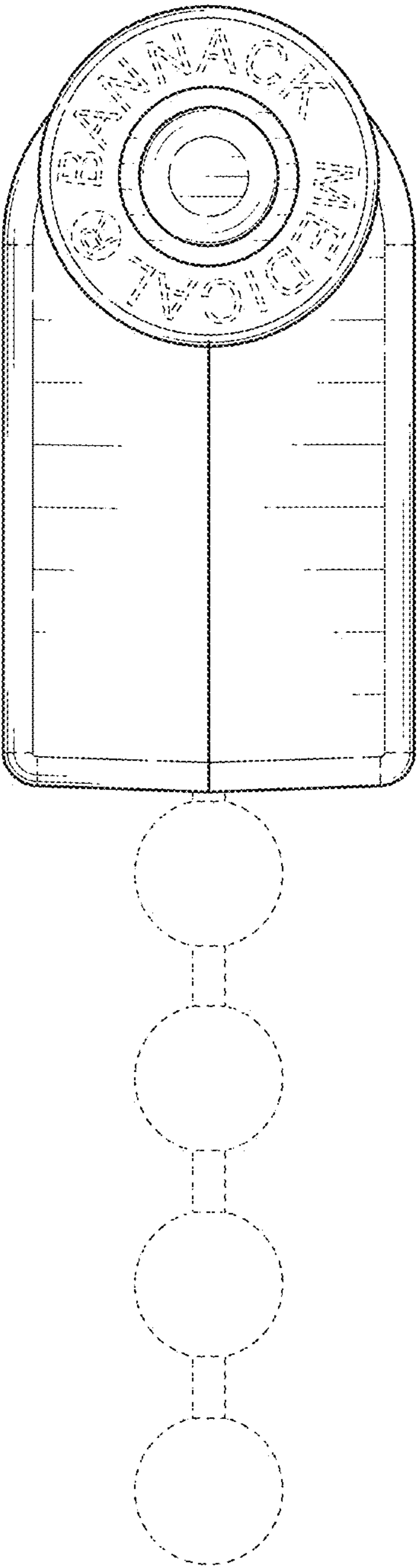


FIG. 6

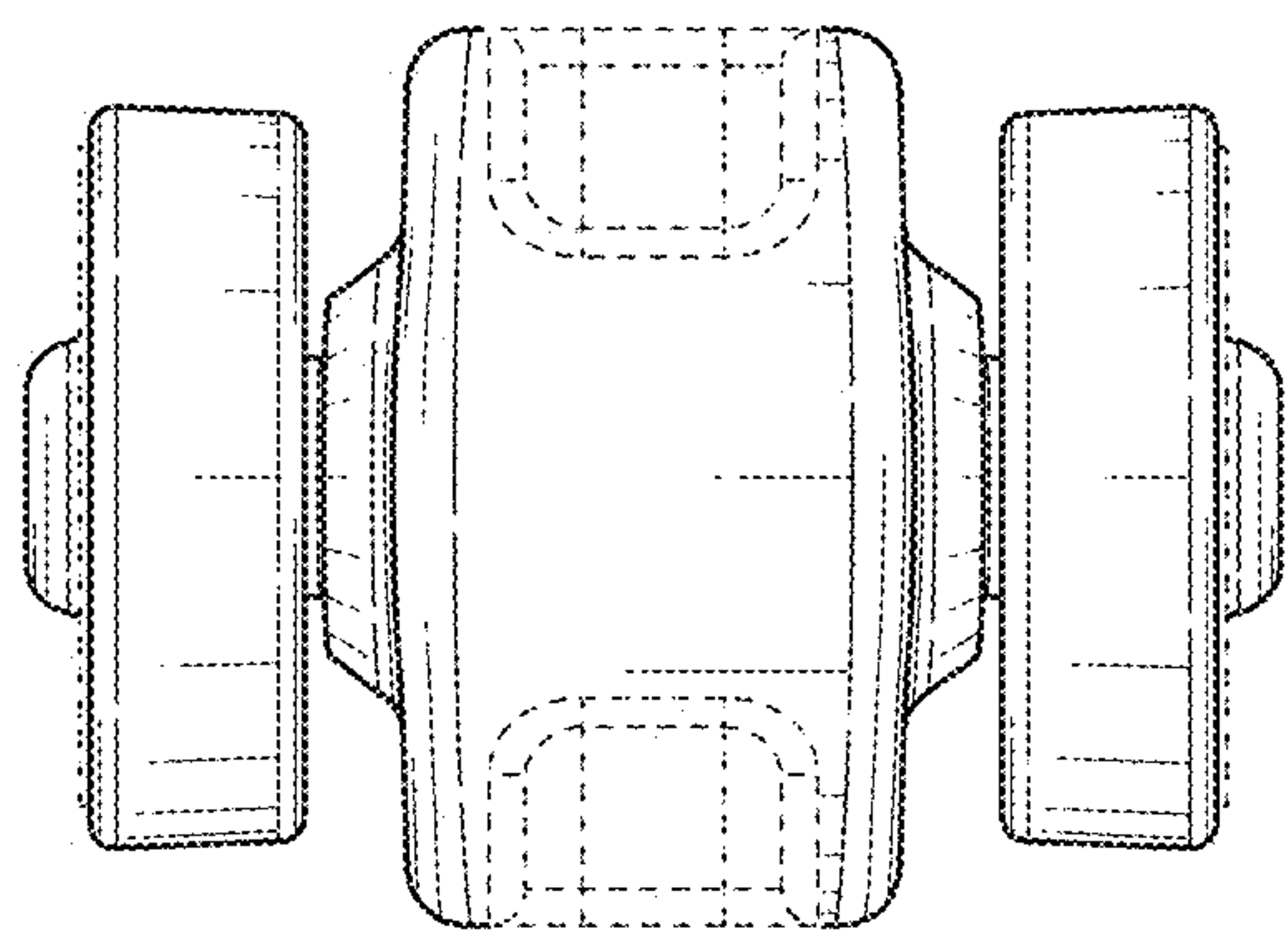


FIG. 7

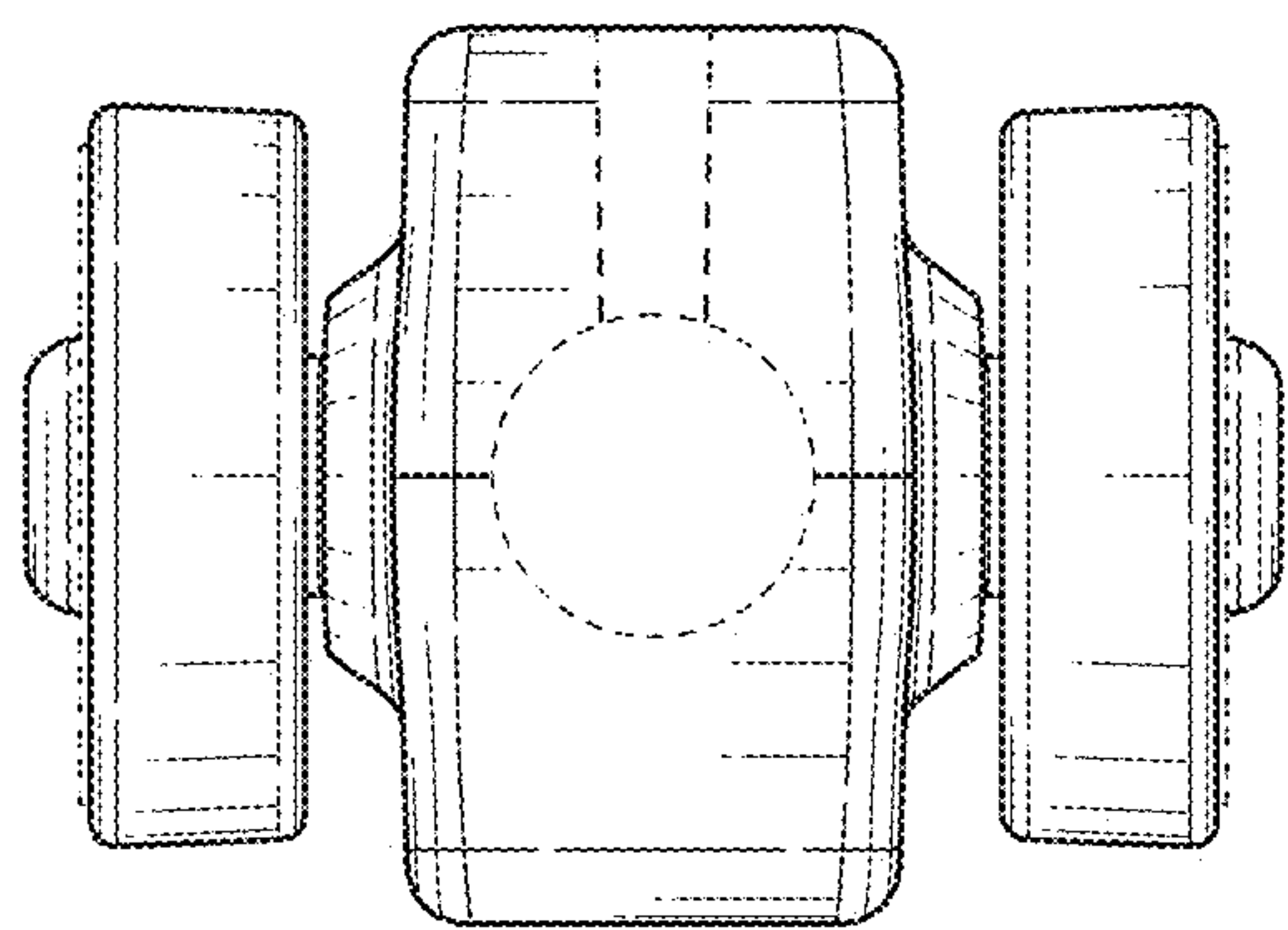


FIG. 8