



US00D976211S

(12) **United States Design Patent**
Wada

(10) **Patent No.:** **US D976,211 S**
(45) **Date of Patent:** **** Jan. 24, 2023**

(54) **AUTOMOTIVE CHARGING CONNECTOR
CAP**

FOREIGN PATENT DOCUMENTS

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JP	D1613043 S	9/2018
JP	D1613044 S	9/2018
JP	D1613045 S	9/2018
JP	D1613502 S	9/2018

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* cited by examiner

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Vanderleeden, LLP

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

(21) Appl. No.: **29/715,593**

(57) **CLAIM**

(22) Filed: **Dec. 3, 2019**

The ornamental design for an automotive charging connec-
tor cap, as shown and described.

(30) **Foreign Application Priority Data**

DESCRIPTION

Jun. 5, 2019 (JP) 2019-012339

(51) **LOC (14) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/120; D13/156**

(58) **Field of Classification Search**
USPC D13/103, 104, 107, 108, 110, 119, 120,
D13/146, 149, 184, 199
CPC .. H01M 220/20; H01M 10/48; H01M 50/561;
H01M 50/20; B60R 16/04
See application file for complete search history.

FIG. 1 is a front, top and right side perspective view of an
automotive charging connector cap showing my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a top plan view thereof;
FIG. 5 is a bottom plan view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a left side view thereof;
FIG. 8 is a cross sectional view taken along line 8-8 in FIG.
2;
FIG. 9 is an enlarged front view without a strap thereof;
FIG. 10 is an enlarged bottom plan view showing the state
in which a strap is removed;
FIG. 11 is an enlarged left side view showing the state in
which a strap is removed; and,
FIG. 12 is an exploded perspective view thereof.
The broken lines illustrate portions of the automotive charg-
ing connector cap that form no part of the claimed design.
The dash-dotted lines denote the boundary of the claim and
form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D602,433 S	*	10/2009	Katou	.....	D13/120
D765,606 S	*	9/2016	Hack	.....	D13/156
D864,067 S	*	10/2019	Kito	.....	D12/197
D864,825 S	*	10/2019	Kito	.....	D12/197
D864,826 S	*	10/2019	Kito	.....	D12/197
D876,303 S	*	2/2020	Kito	.....	D12/197
D876,304 S	*	2/2020	Kito	.....	D12/197
D950,493 S	*	5/2022	Wada	.....	D13/120

1 Claim, 10 Drawing Sheets

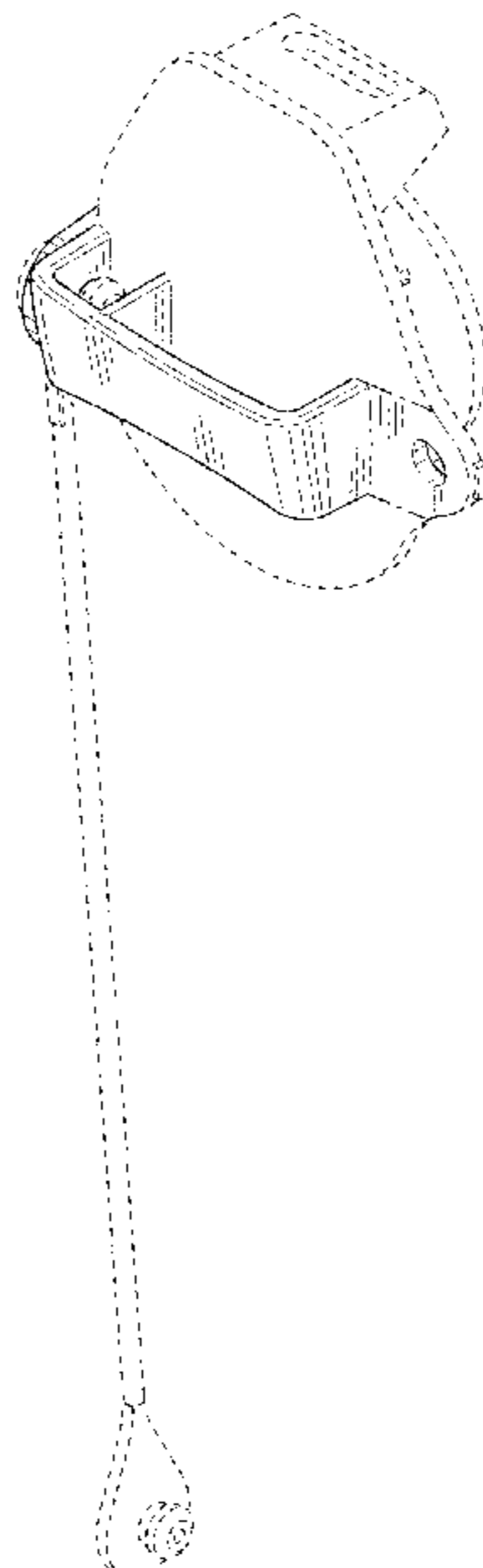


FIG. 1

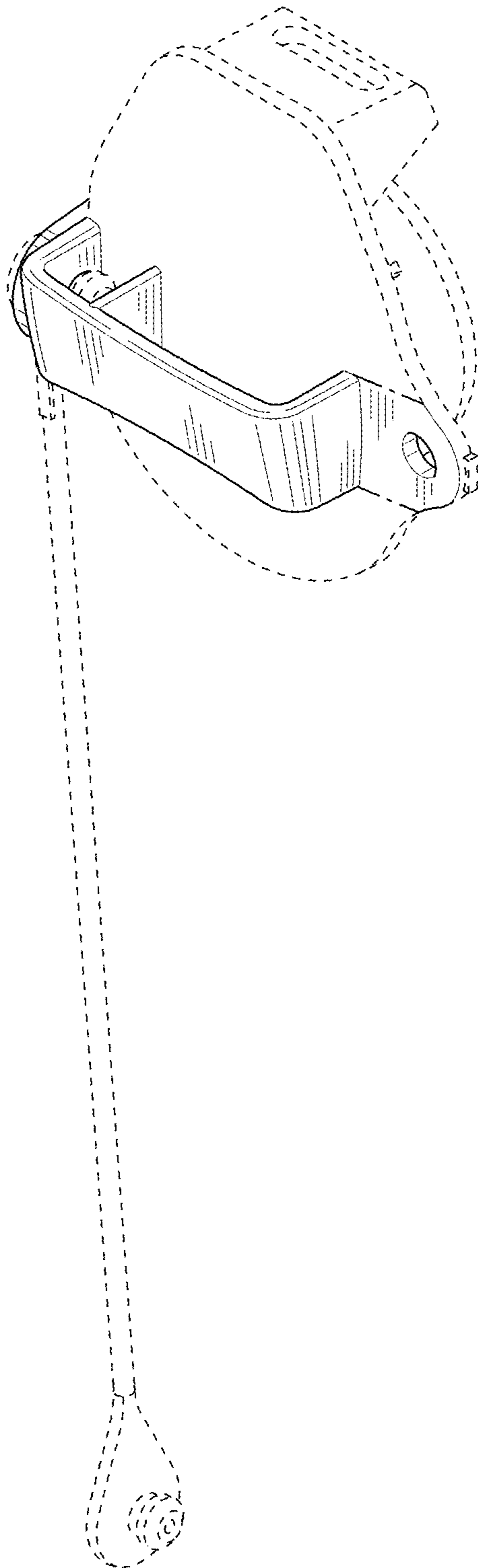


FIG. 2

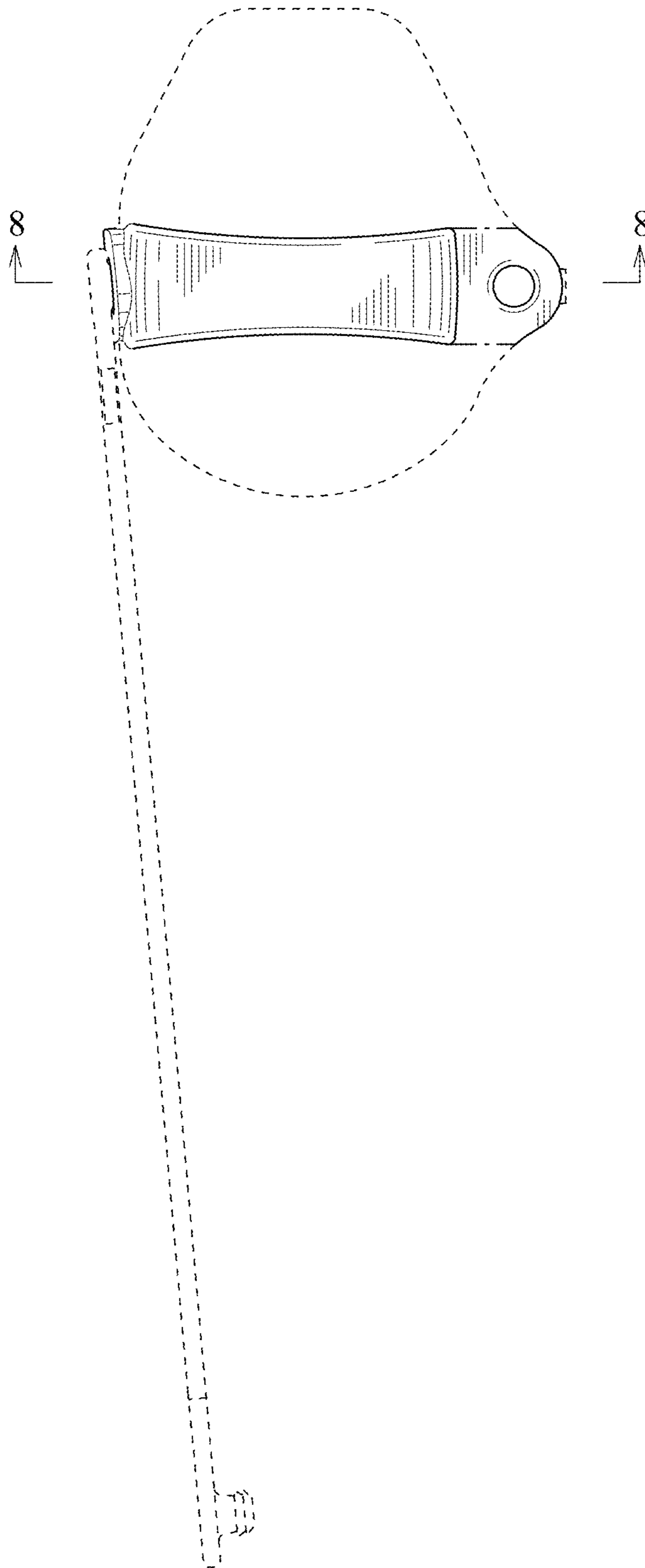


FIG. 3

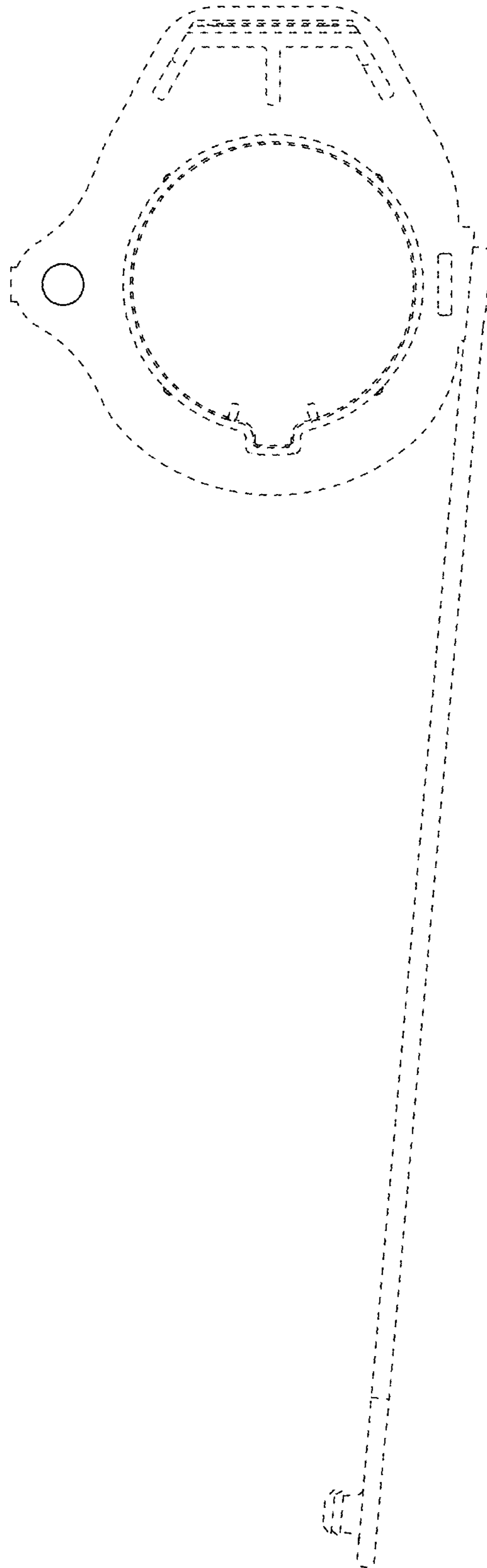


FIG. 4

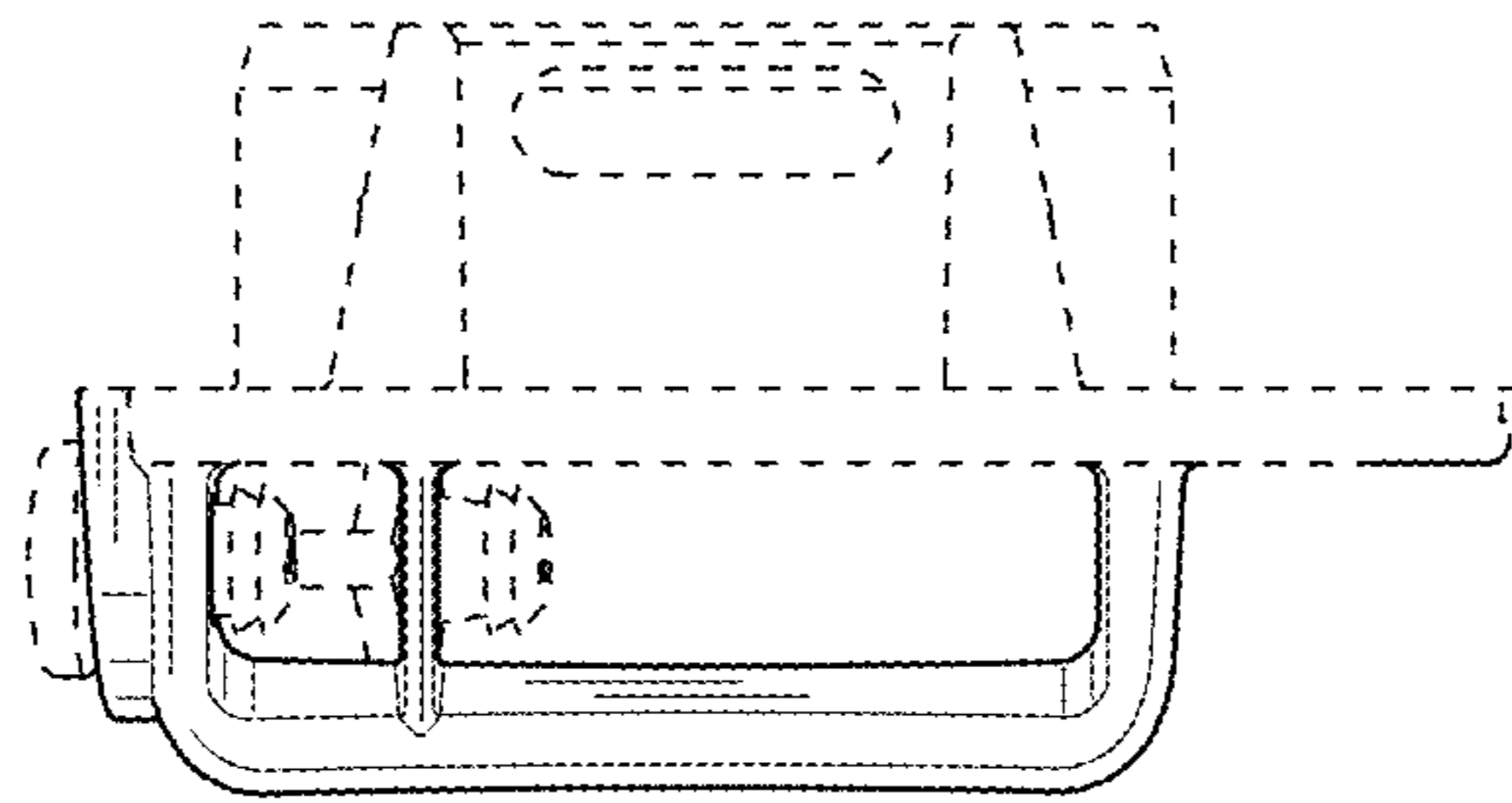


FIG. 5

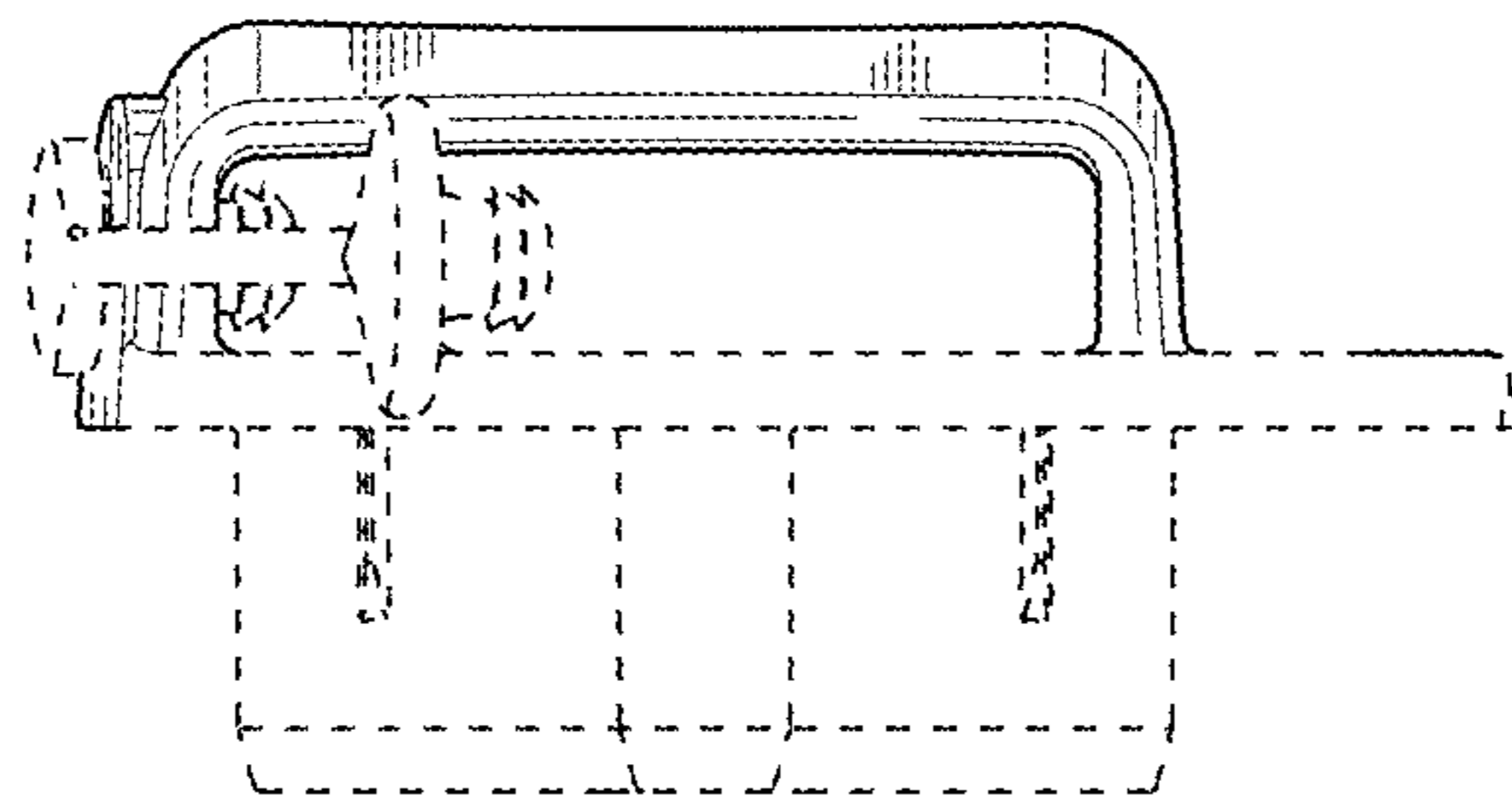


FIG. 6

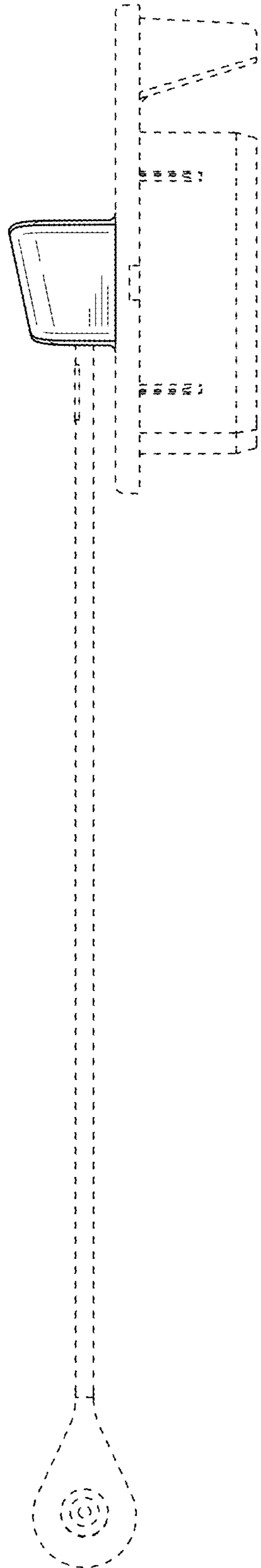


FIG. 7

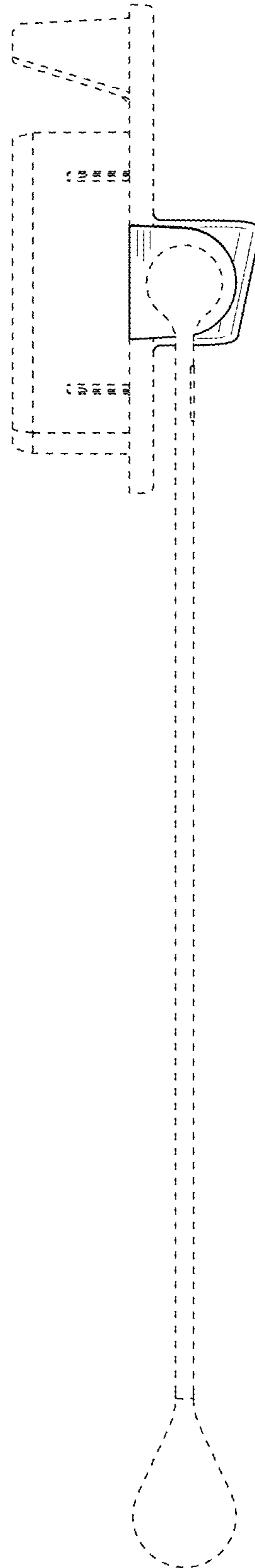


FIG. 8

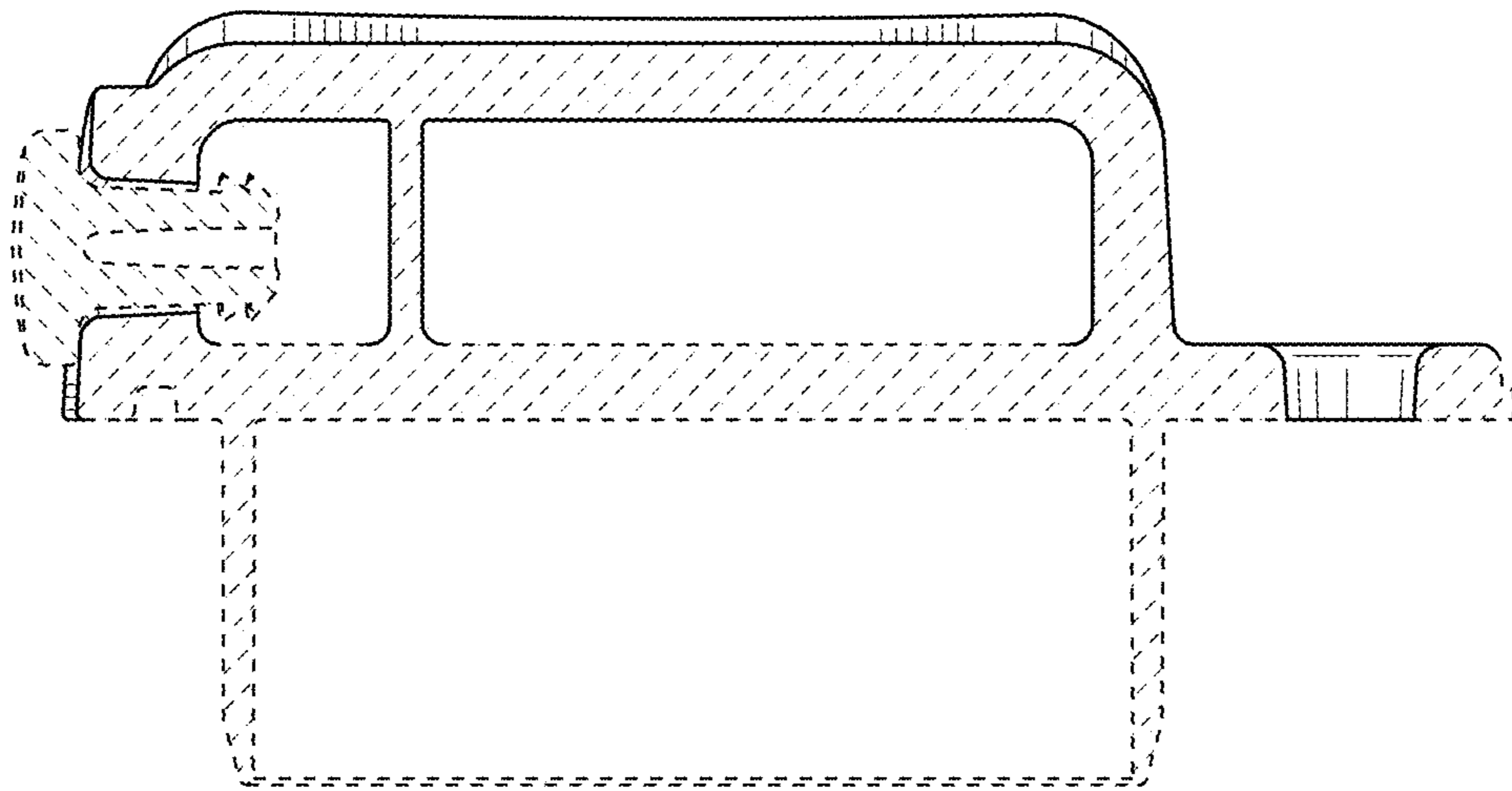


FIG. 9

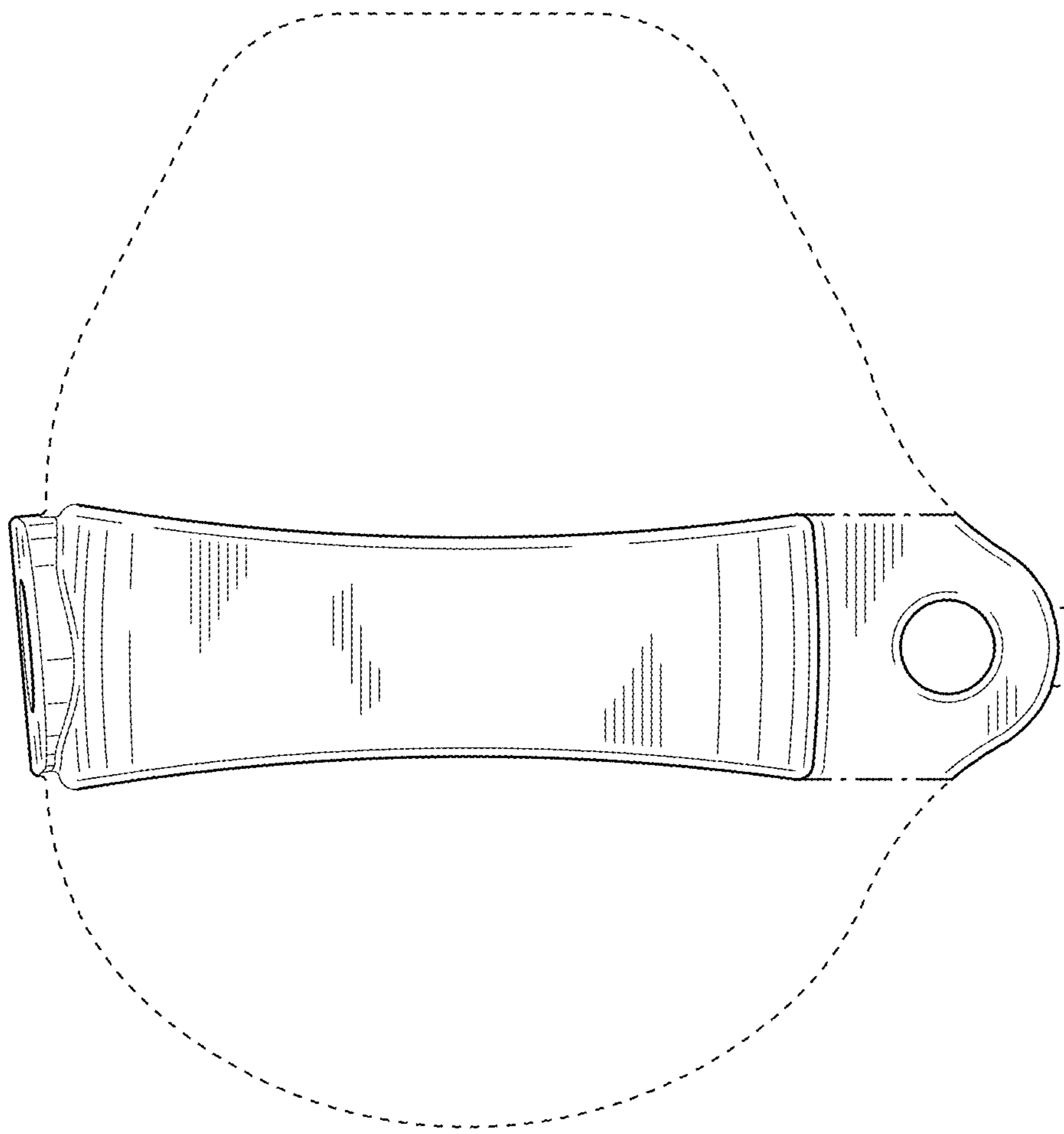


FIG. 10

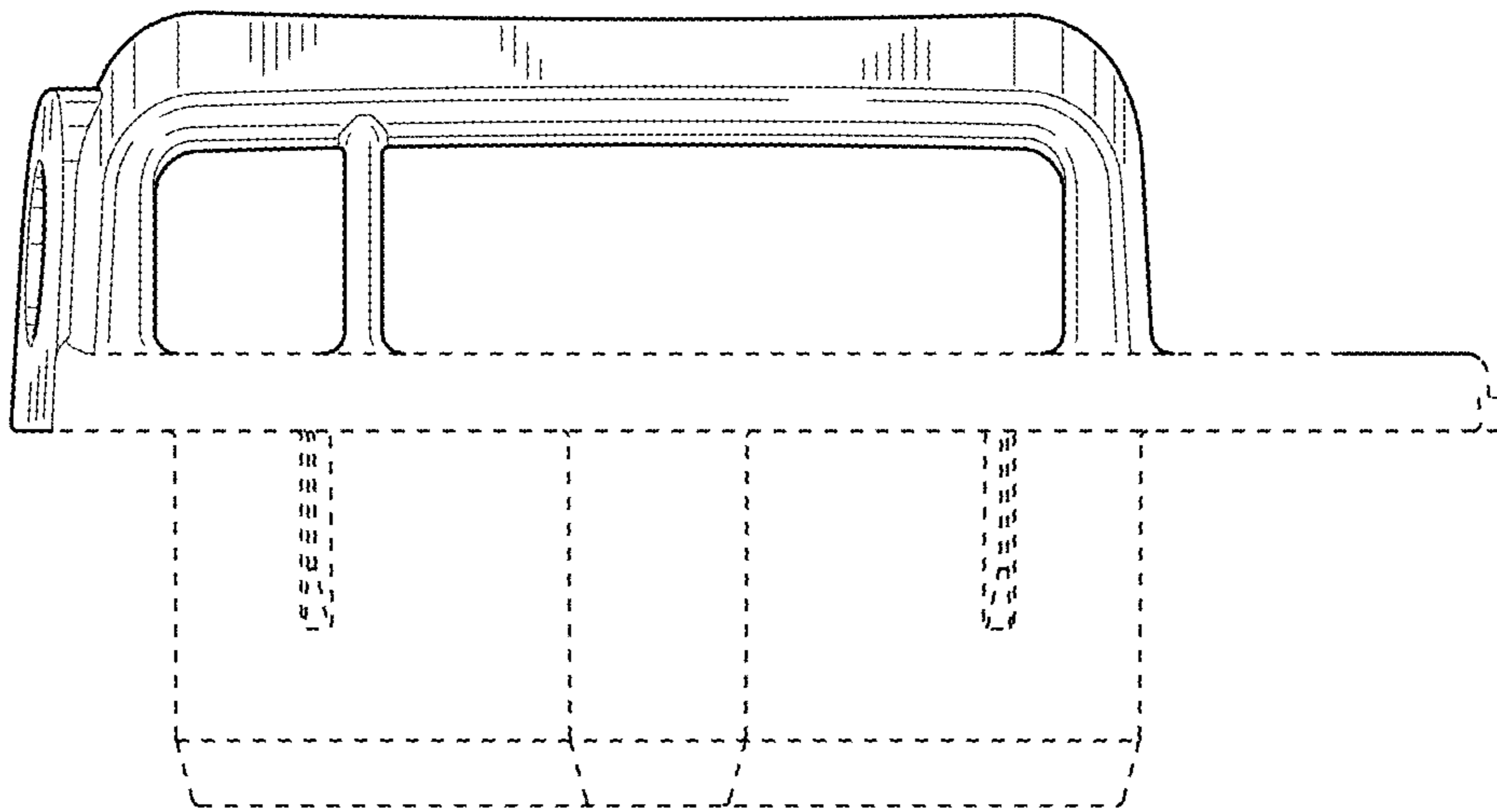


FIG. 11

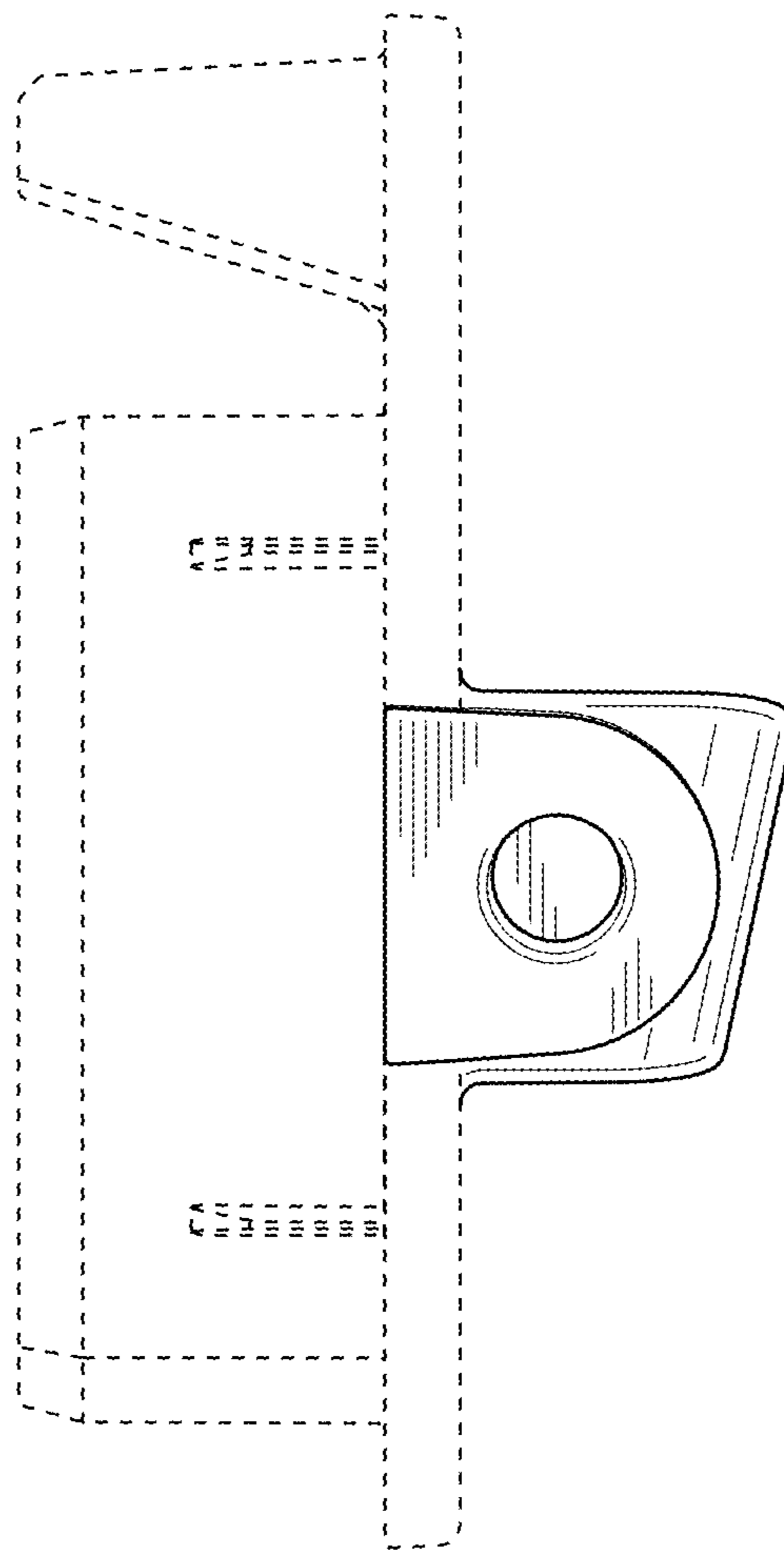


FIG. 12

