



US00D927112S

(12) **United States Design Patent** (10) **Patent No.:** **US D927,112 S**
Lee (45) **Date of Patent:** **** Aug. 3, 2021**

(54) **HARD FLOOR CLEANING TOOL**

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(73) Assignee: **SharkNinja Operating LLC**,
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(**) Term: **15 Years**

(21) Appl. No.: **29/692,528**

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(51) **LOC (13) Cl.** **15-05**

(52) **U.S. Cl.**
USPC **D32/32**

(58) **Field of Classification Search**
USPC D32/31, 32, 33, 34, 35
CPC E04H 4/1654; E04H 15/322; E04H 15/40;
E04H 15/412; E04H 15/417-422
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D290,418	S	*	6/1987	Strohmeier	.....	D32/32
D698,510	S	*	1/2014	Chu	.....	D32/32
D752,303	S	*	3/2016	Kerr	.....	D32/32
D770,108	S	*	10/2016	Palladino	.....	D32/32
D776,380	S	*	1/2017	Yoneda	.....	D32/32
D796,135	S	*	8/2017	Yoon	.....	D32/32
D816,928	S	*	5/2018	Henderson	.....	D32/32
D816,929	S	*	5/2018	Charest	.....	D32/32
D825,873	S	*	8/2018	Sagkob	.....	D32/32
D848,100	S	*	5/2019	Bond	.....	D32/32
D873,516	S	*	1/2020	Palladino	.....	D32/32
2007/0169289	A1	*	7/2007	Hanvey	.....	E04H 4/1654 15/1.7
2016/0058255	A1	*	3/2016	Kim	.....	A47L 9/02 15/327.1

OTHER PUBLICATIONS

<https://pnghut.com/png/GZwZCBnajx/tool-vacuum-cleaner-rigid-rv2400hf-hardware-electrician-tools-transparent-png> (Year: 2020).*
<https://www.domayne.com.au/karcher-sc3-premium-steam-cleaner.html> (Year: 2020).*

* cited by examiner

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(57) **CLAIM**

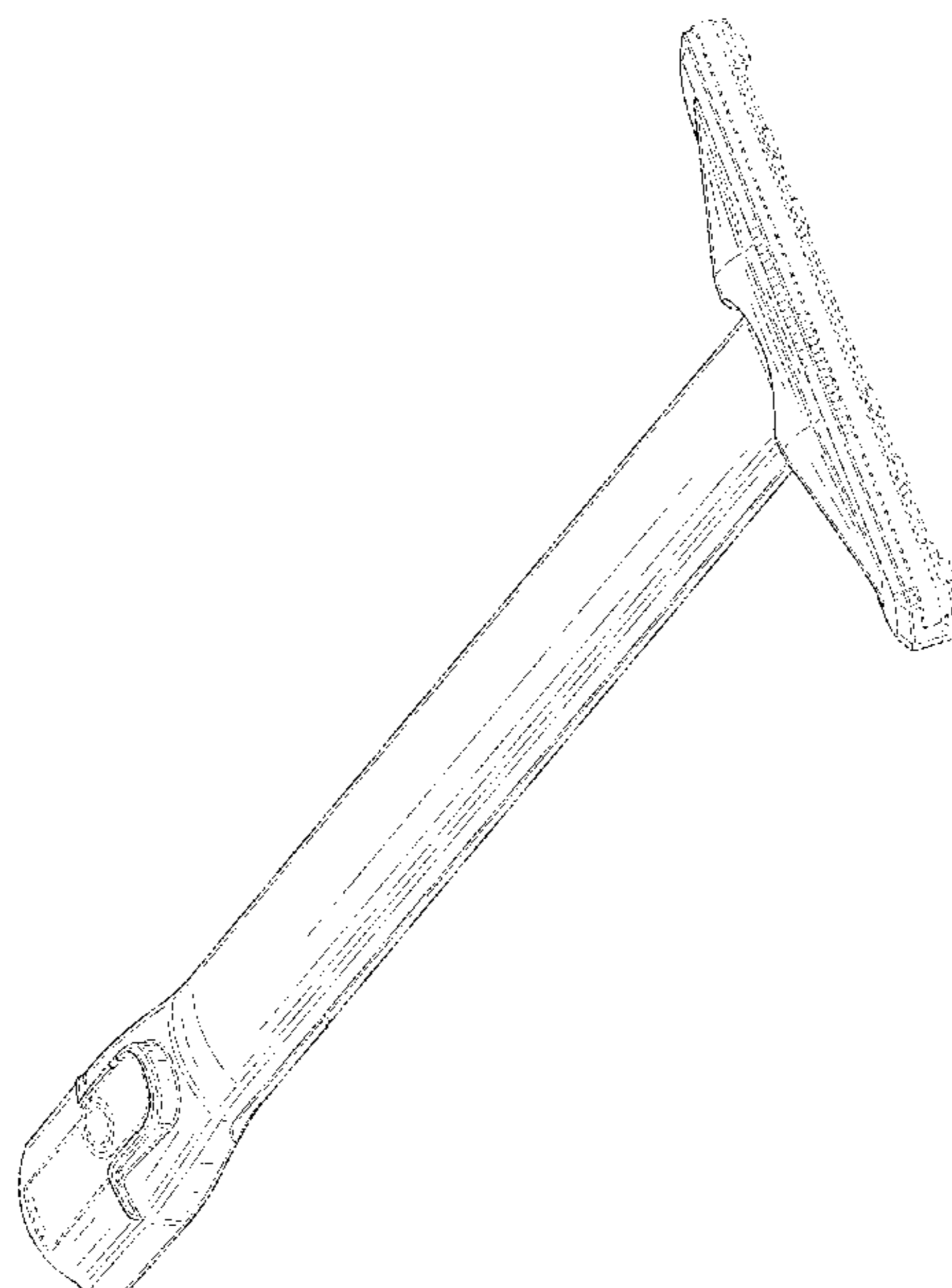
The ornamental design of a hard floor cleaning tool, as shown and described.

DESCRIPTION

FIG. 1 is a front top right perspective view of a hard floor cleaning tool, showing the new design;
FIG. 2 is a front top left perspective view thereof;
FIG. 3 is a rear top right perspective view thereof;
FIG. 4 is a rear top left perspective view thereof;
FIG. 5 is a front bottom left perspective view thereof;
FIG. 6 is a front bottom right perspective view thereof;
FIG. 7 is a rear bottom left perspective view thereof;
FIG. 8 is a rear bottom right perspective view thereof;
FIG. 9 is a top view thereof;
FIG. 10 is a bottom view thereof;
FIG. 11 is a right side view thereof;
FIG. 12 is a left side view thereof;
FIG. 13 is a front view thereof; and,
FIG. 14 is a rear view thereof.

The broken lines in the figures show portions of the hard floor cleaning tool that form no part of the claimed design.

1 Claim, 12 Drawing Sheets



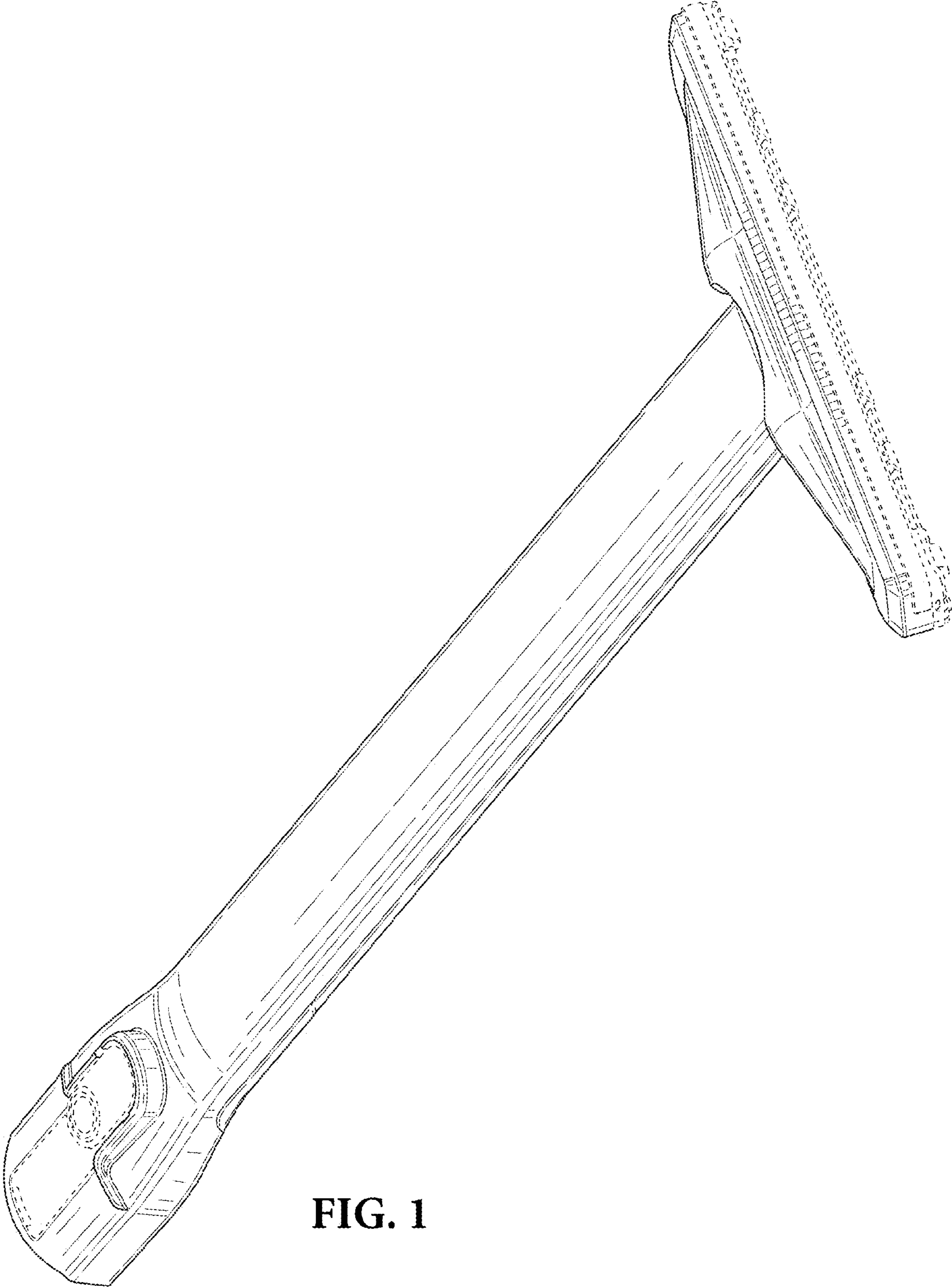


FIG. 1

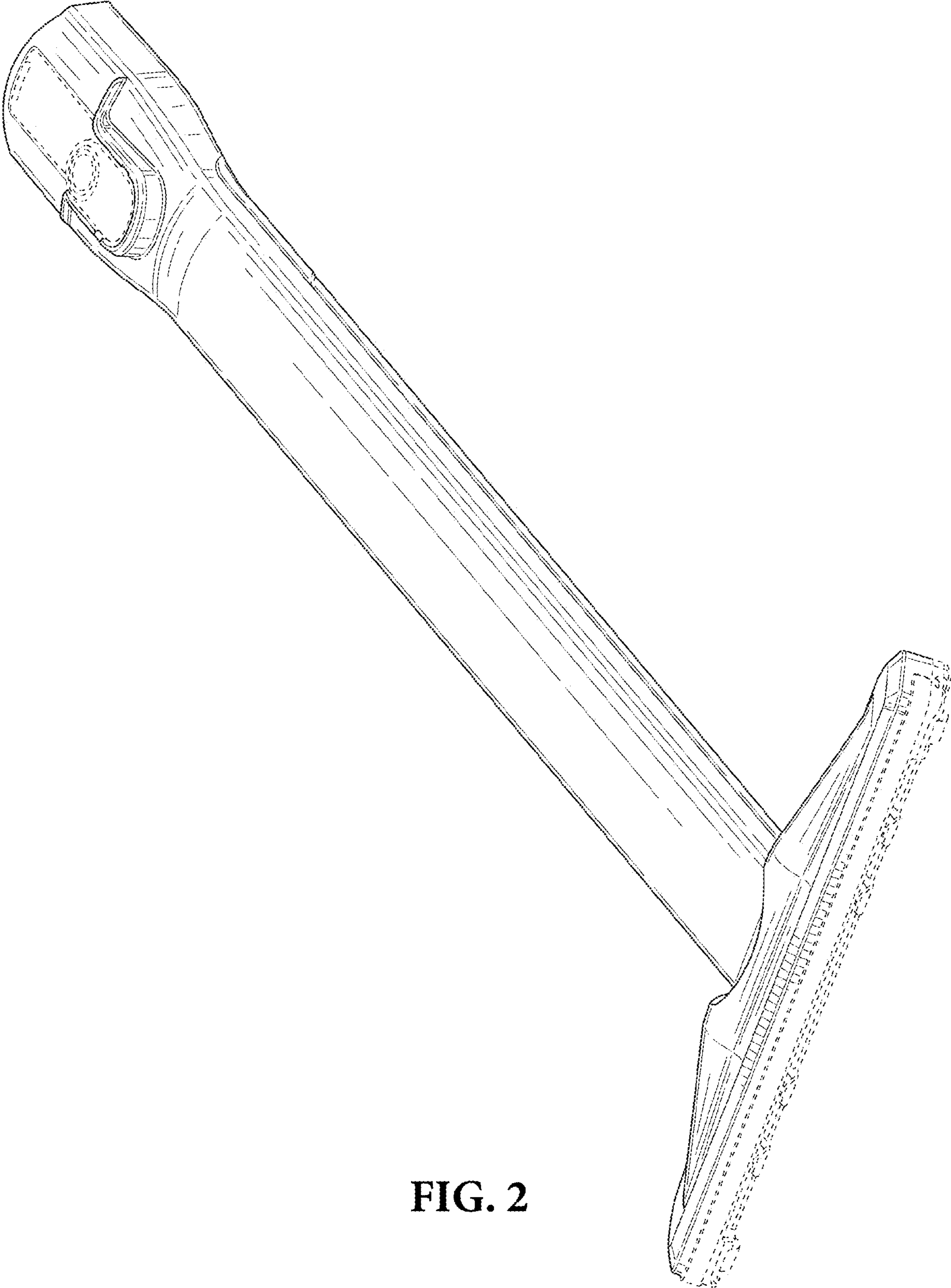


FIG. 2

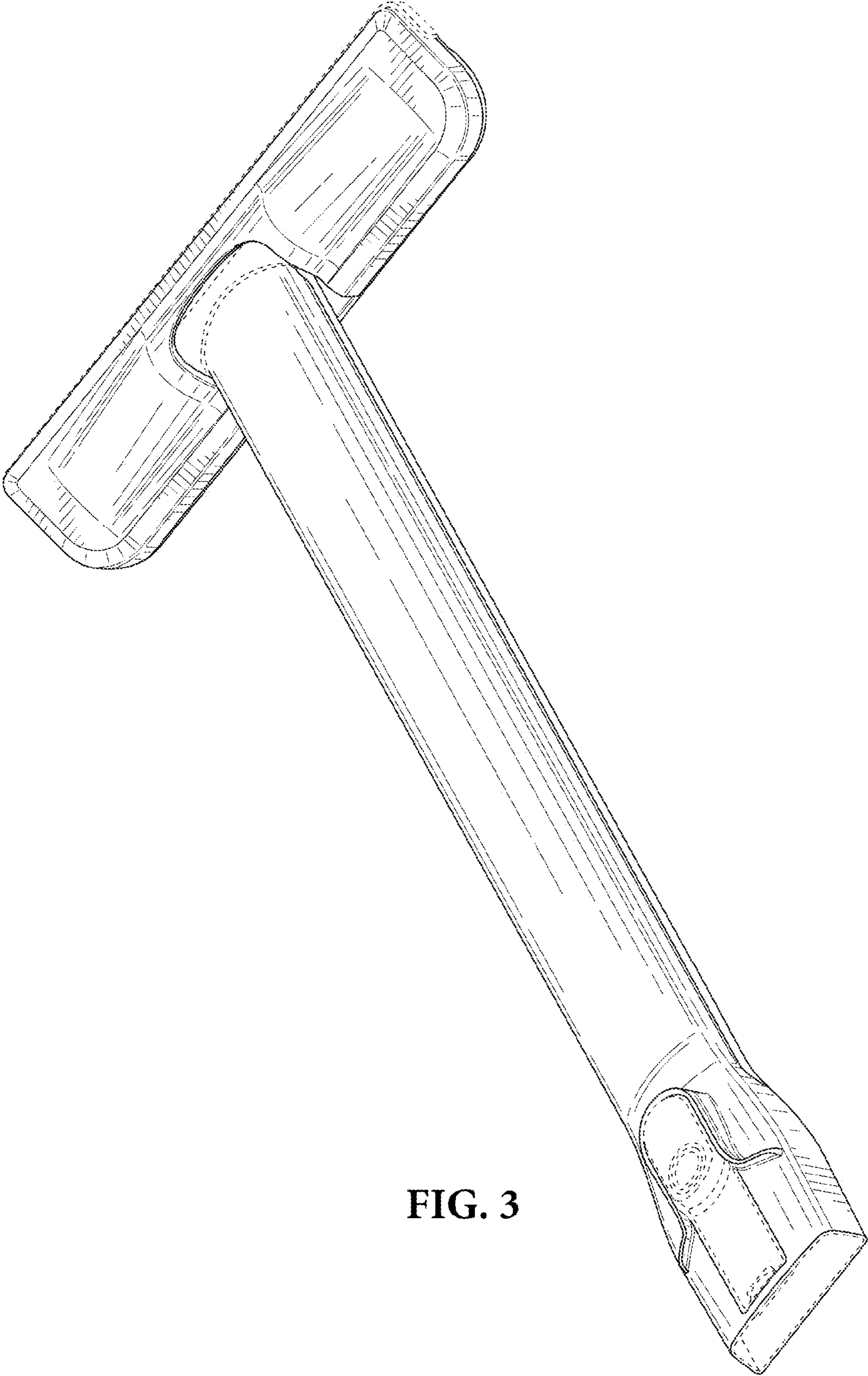


FIG. 3

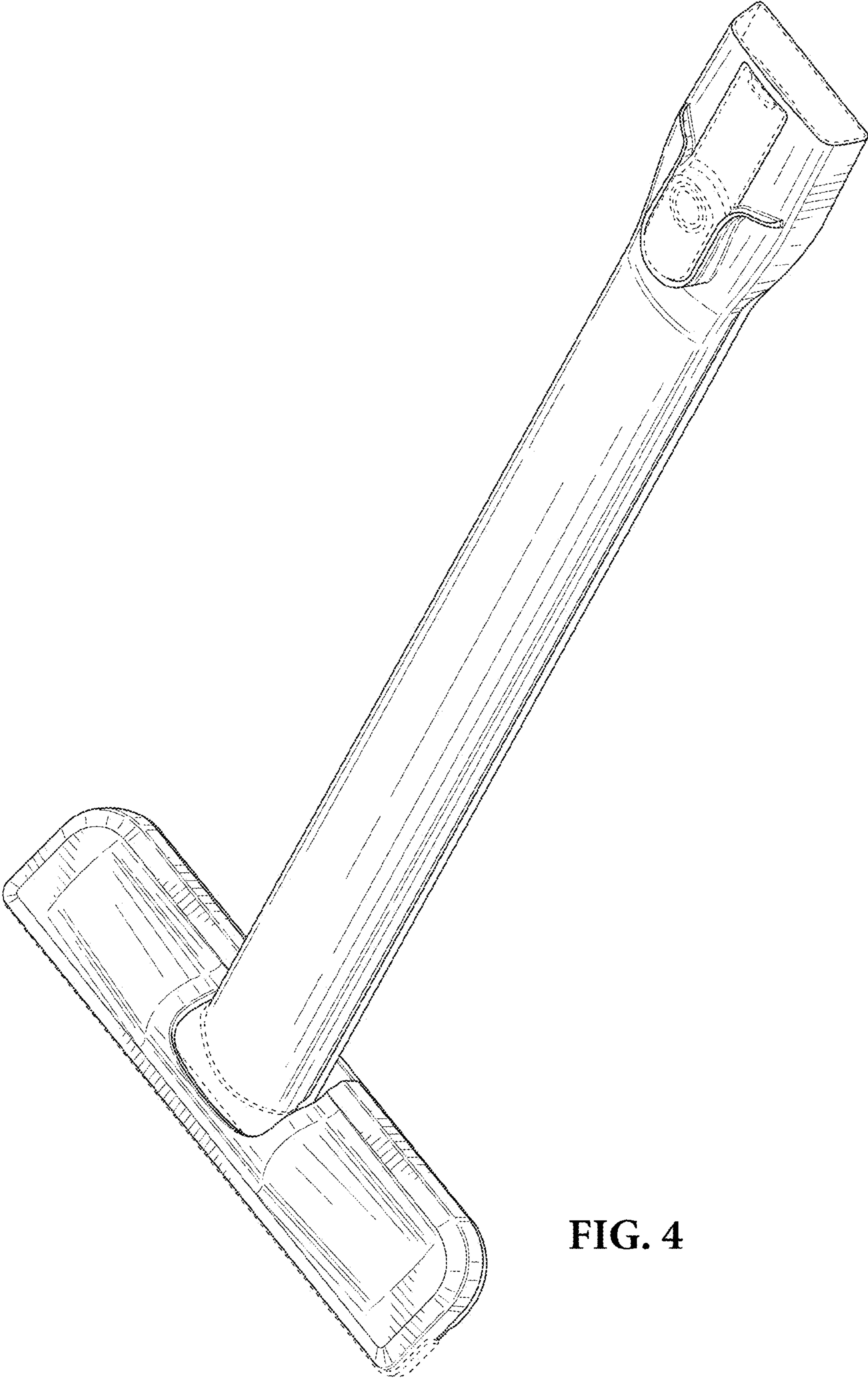


FIG. 4

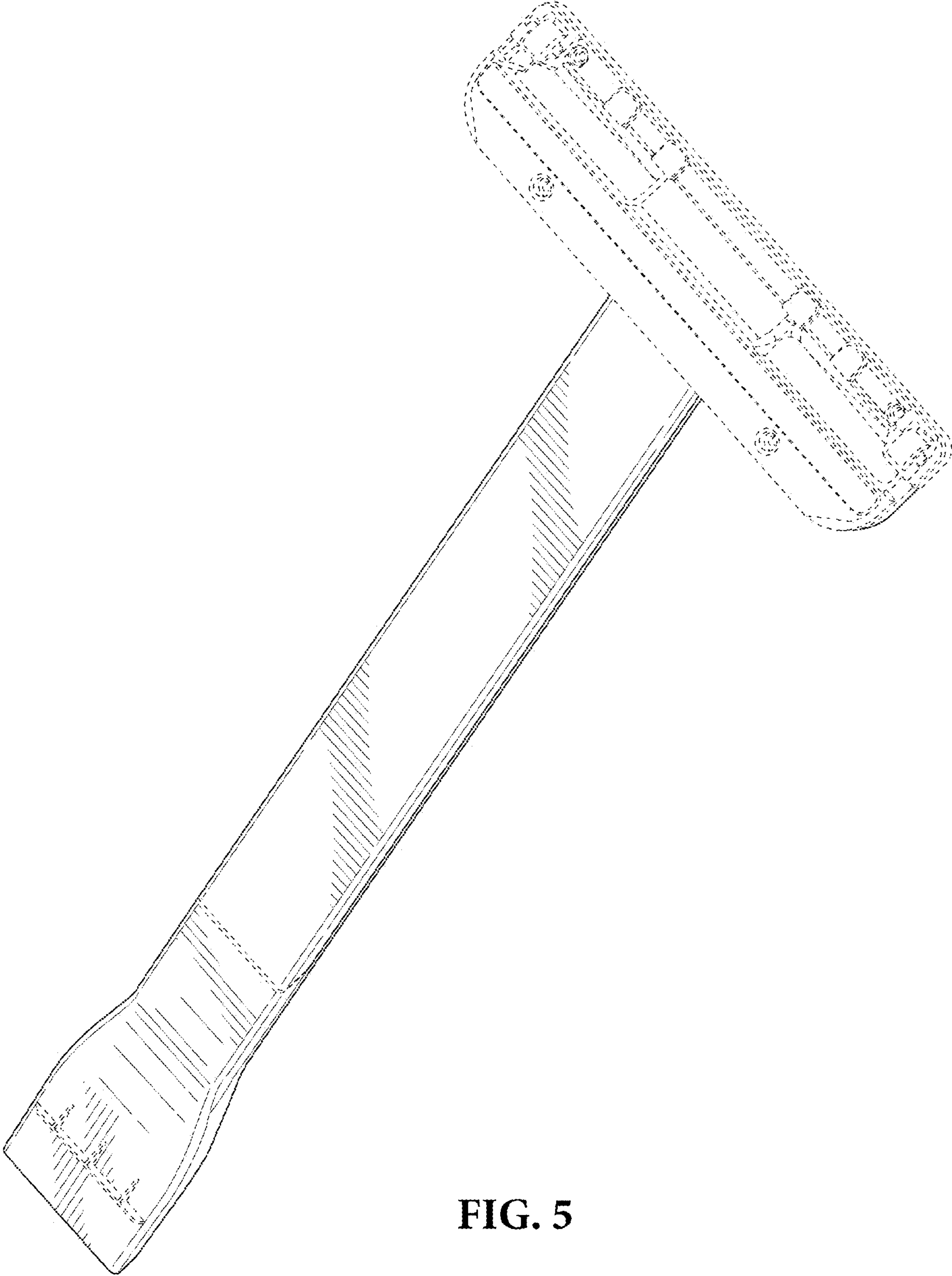


FIG. 5

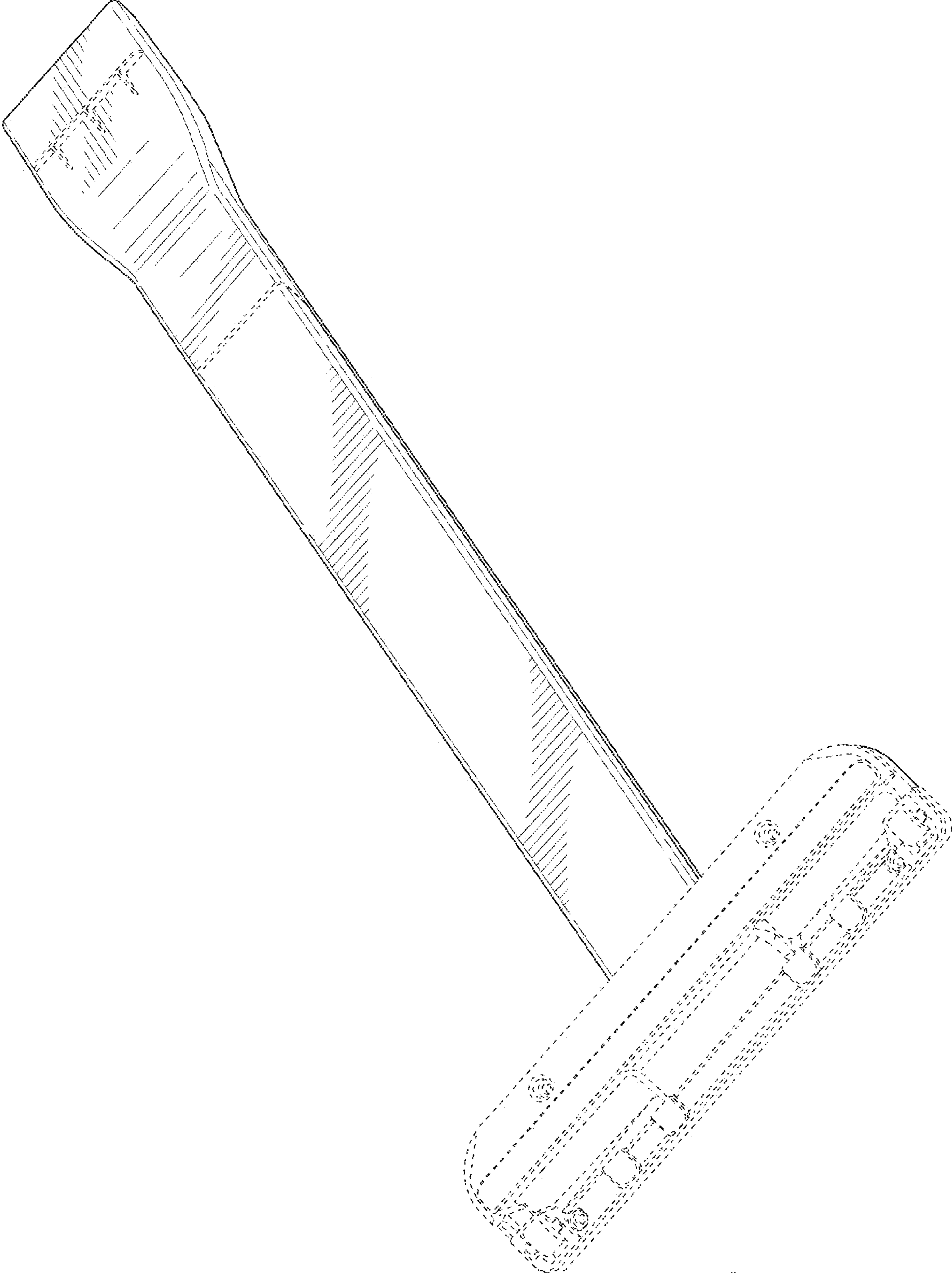


FIG. 6

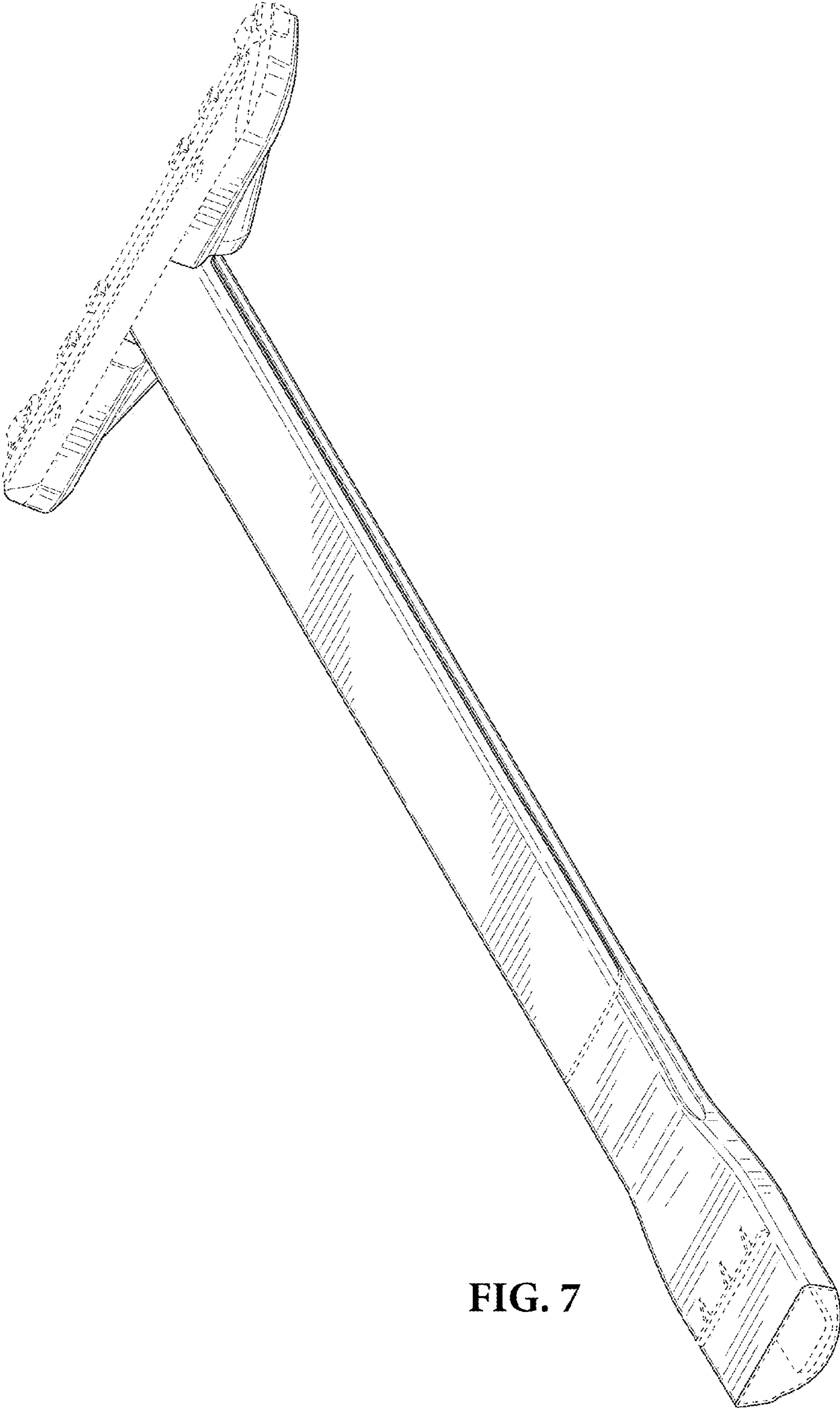


FIG. 7

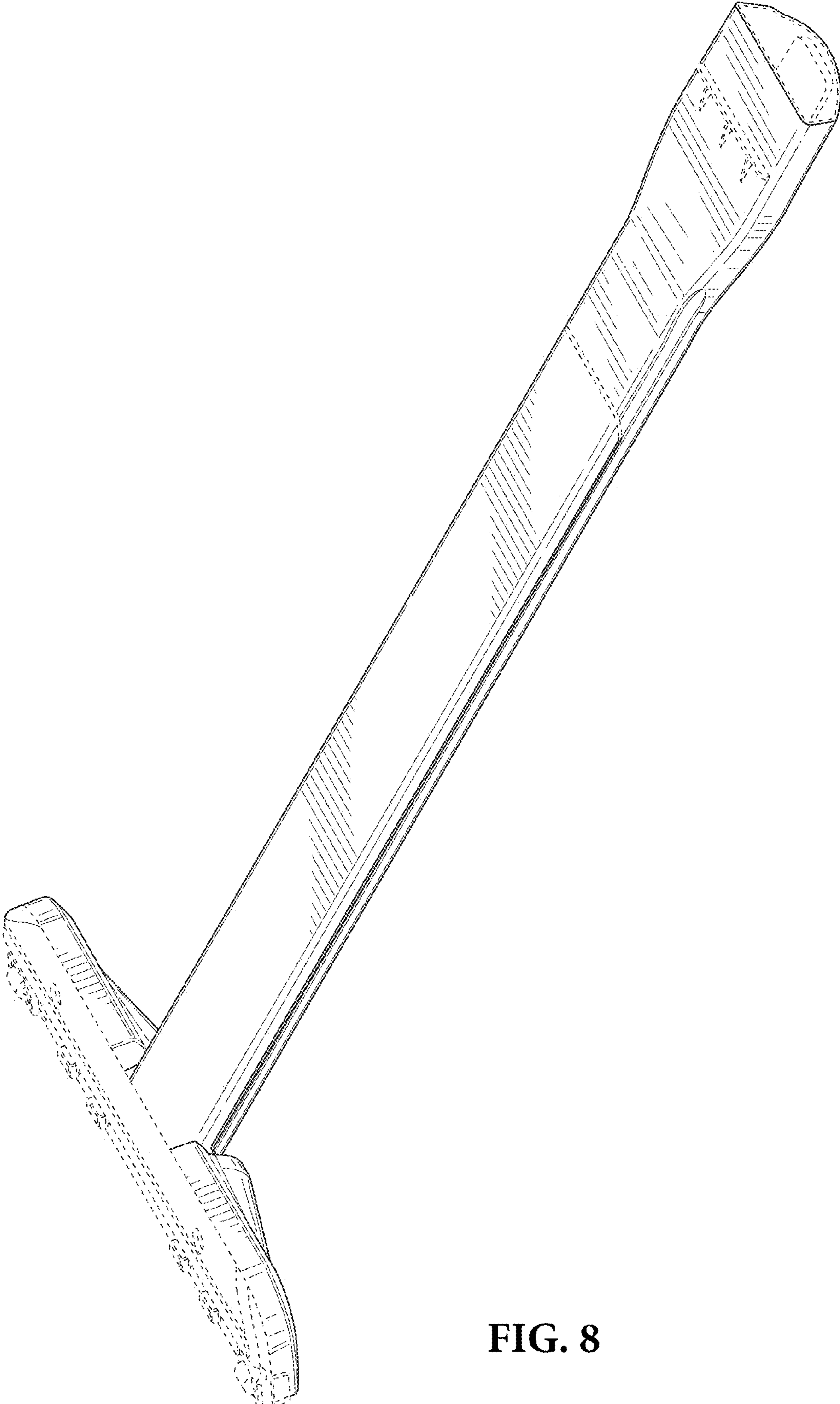


FIG. 8

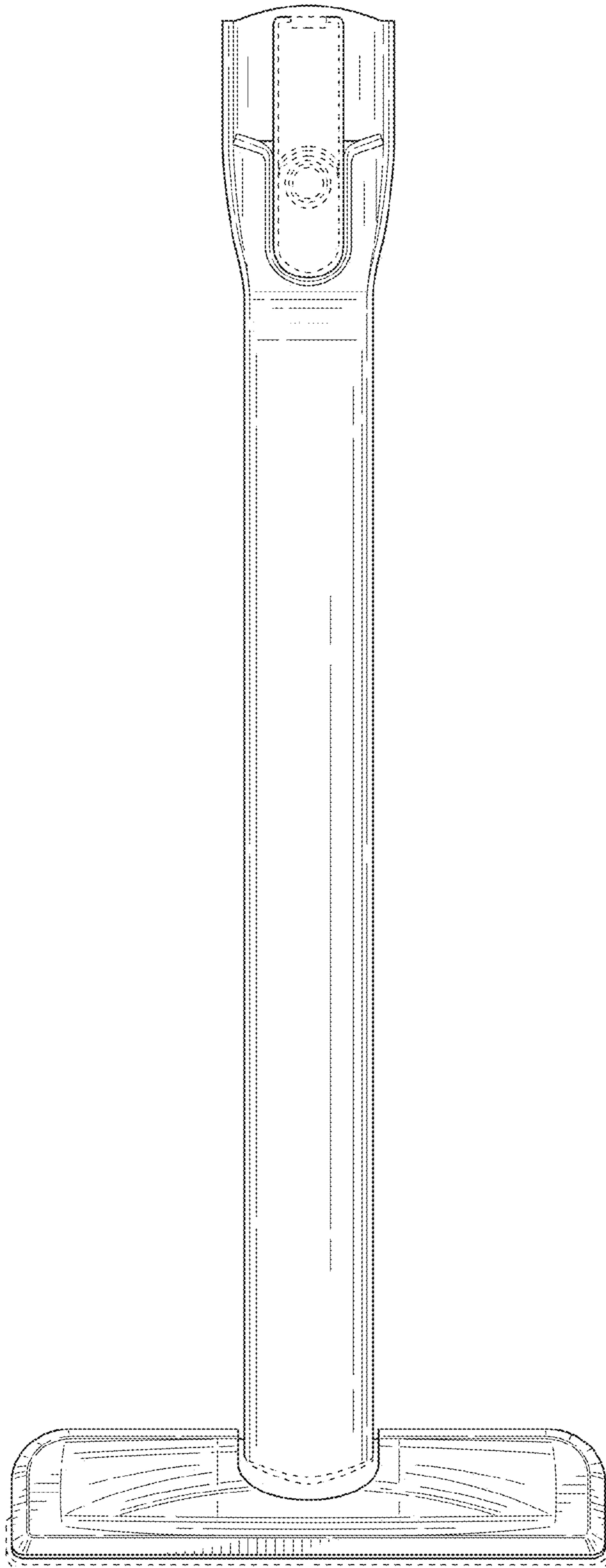


FIG. 9

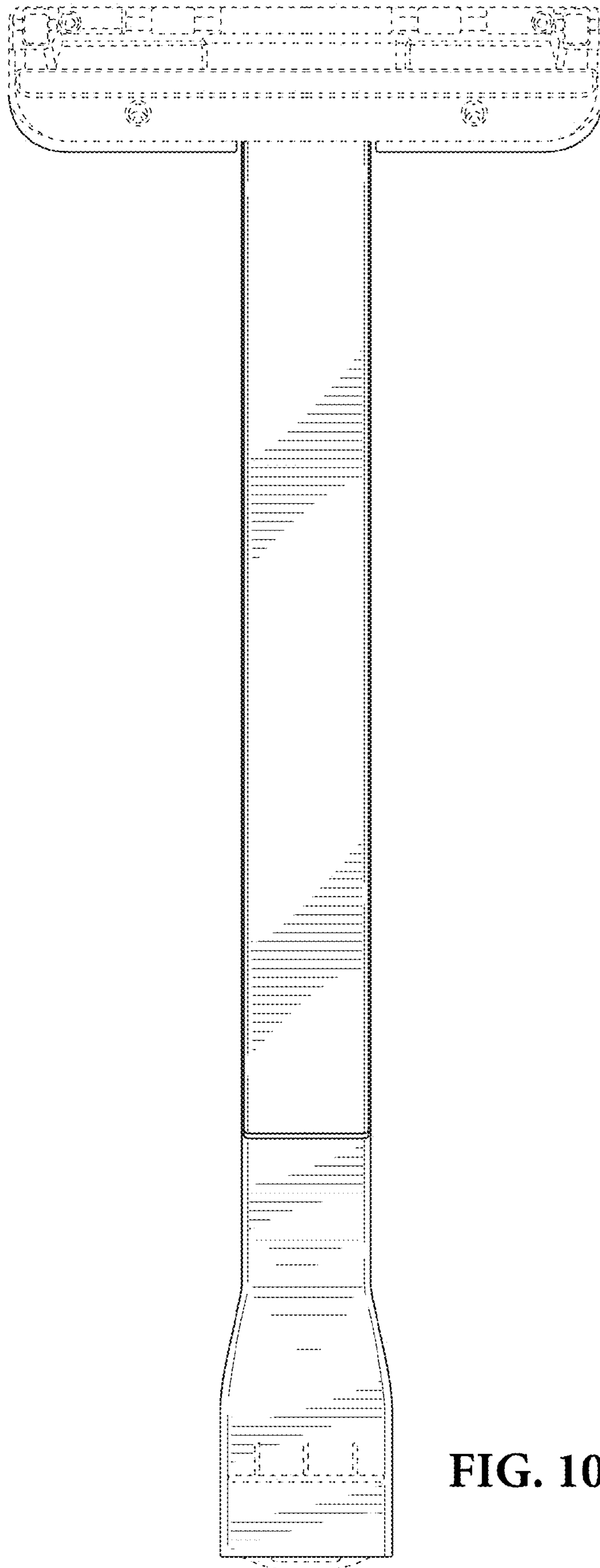


FIG. 10

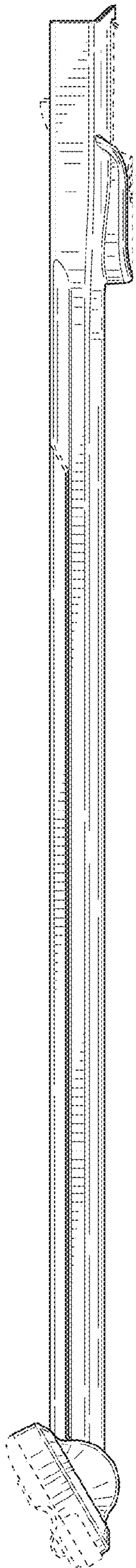


FIG. 11

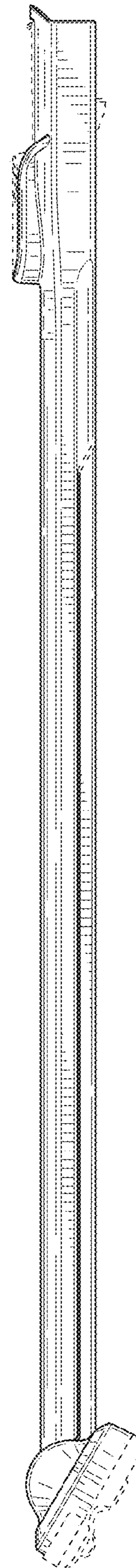


FIG. 12

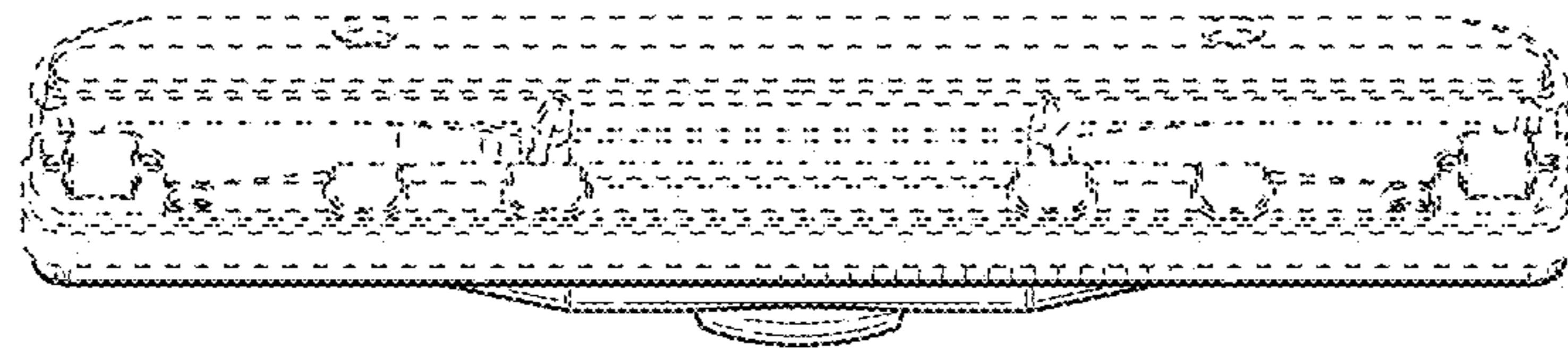


FIG. 13

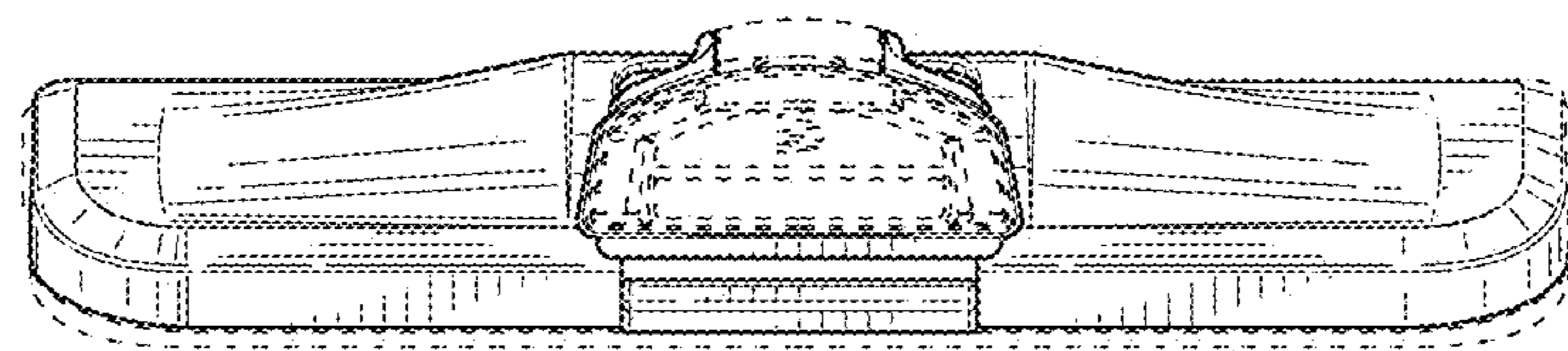


FIG. 14