



US00D930310S

(12) **United States Design Patent** (10) **Patent No.:** **US D930,310 S**
Aguiar et al. (45) **Date of Patent:** **** Sep. 7, 2021**

(54) **BROOM HEAD**
(71) Applicant: **The Libman Company**, Arcola, IL (US)
(72) Inventors: **Carlos Aguiar**, Arcola, IL (US); **Fernando de Jesus Santos**, Arcola, IL (US); **Andrew D. Libman**, Arcola, IL (US); **Aaron Libman**, Arcola, IL (US); **Jon Franklin**, Arcola, IL (US)

1,983,923 A 12/1934 Stevens
2,290,178 A 7/1942 Hayford
2,390,705 A 12/1945 Haase
2,922,179 A 1/1960 Lundgren
3,084,369 A 4/1963 Hawkins
D270,971 S 10/1983 Stevens et al.
D287,173 S * 12/1986 Libman D32/45
4,785,489 A 11/1988 Von Doehren
D307,517 S * 5/1990 Mallory D32/41
D307,981 S 5/1990 Saunders
D320,878 S * 10/1991 Linder D32/50
(Continued)

(73) Assignee: **The Libman Company**, Arcola, IL (US)

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

(21) Appl. No.: **35/001,645**

(22) Filed: **Feb. 19, 2019**

(80) **Hague Agreement Data**

Int. Filing Date: **Feb. 19, 2019**
Int. Reg. No.: **DM/208156**
Int. Reg. Date: **Feb. 19, 2019**
Int. Reg. Pub. Date: **May 22, 2020**

(51) **LOC (13) Cl.** **07-05**

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

(58) **Field of Classification Search**
USPC D32/40, 41, 46, 49-52; D4/118, 132
CPC A46B 2200/302; A46B 2200/308; A46B 15/0055; A46B 15/0081; A46B 17/08; A47L 13/20; A47L 13/12
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

94,728 A 9/1869 Elliot
472,486 A 4/1892 Rowe
729,338 A 5/1903 Hawkins
1,785,564 A 12/1930 Schweigert
1,872,534 A 8/1932 Wallin

OTHER PUBLICATIONS

Libman 24_ Rough Surface Push Broom , as archived by the wayback machine on Apr. 4, 2020, [online], [site visited Apr. 23, 2021]. Retrieved from url:https://web.archive.org/web/20200404172424/https://libman.com/products/24-rough-surface-push-broom (Year: 2020).*

Primary Examiner — Michelle E. Wilson

Assistant Examiner — Tracey J Bell

(74) *Attorney, Agent, or Firm* — Banner & Witcoff, Ltd.

(57) **CLAIM**

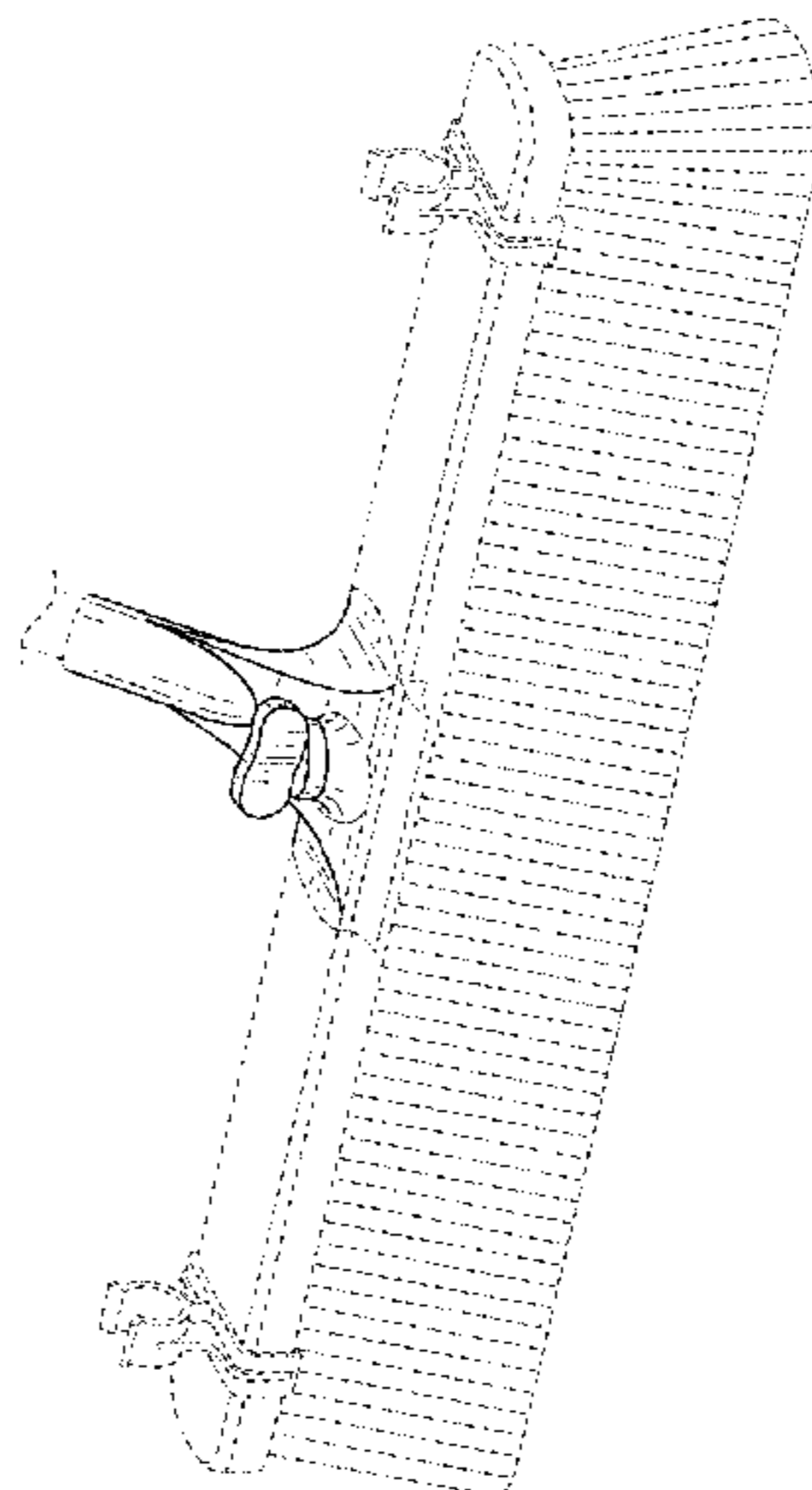
The ornamental design for a broom head, as shown and described.

DESCRIPTION

- 1. Broom head
- 1.1 : Perspective
- 1.2 : Front
- 1.3 : Back
- 1.4 : Right
- 1.5 : Left
- 1.6 : Top
- 1.7 : Bottom

The broken lines immediately adjacent to the shaded area define boundaries of the claimed design and form no part thereof; the broken lines showing the remainder of the broom represent unclaimed subject matter and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

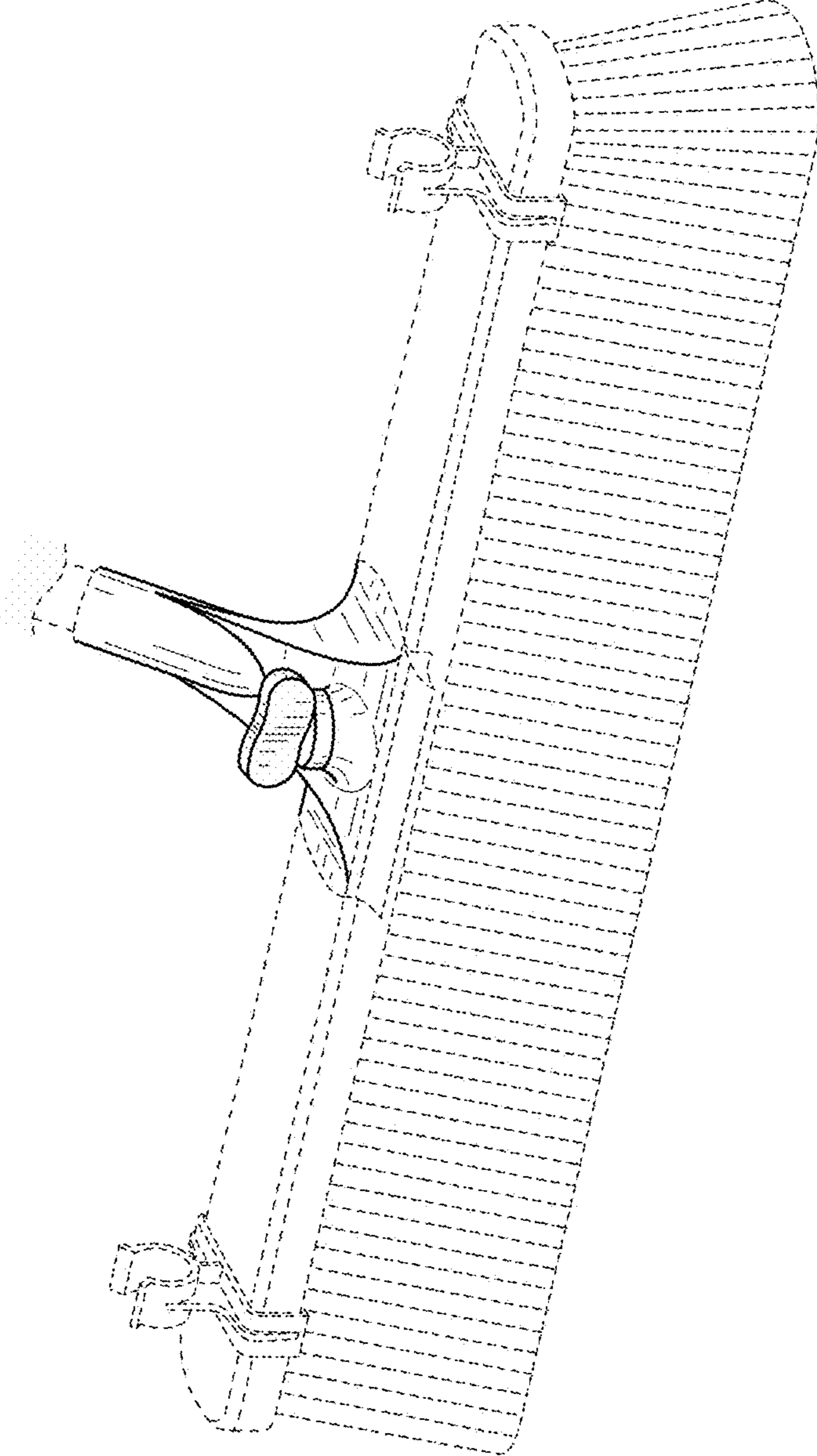
U.S. PATENT DOCUMENTS

5,123,138 A 6/1992 Flamm
 5,161,772 A 11/1992 DiResta et al.
 D353,919 S 12/1994 Sajko
 D364,741 S 12/1995 Reuter, III
 D375,409 S 11/1996 Uranga et al.
 D382,117 S 8/1997 Uranga et al.
 D383,268 S 9/1997 Uranga et al.
 D423,158 S * 4/2000 La Liberty D32/50
 6,349,444 B1 2/2002 Sander
 6,393,647 B1 * 5/2002 Libman A46B 5/0095
 15/145
 6,594,850 B2 * 7/2003 Libman A46B 5/0095
 15/145
 6,606,756 B2 8/2003 Fernandez
 D487,973 S * 4/2004 Vosbikian D32/50
 D545,063 S 6/2007 Sander
 7,717,524 B2 5/2010 Weaver
 7,721,380 B2 5/2010 Libman et al.

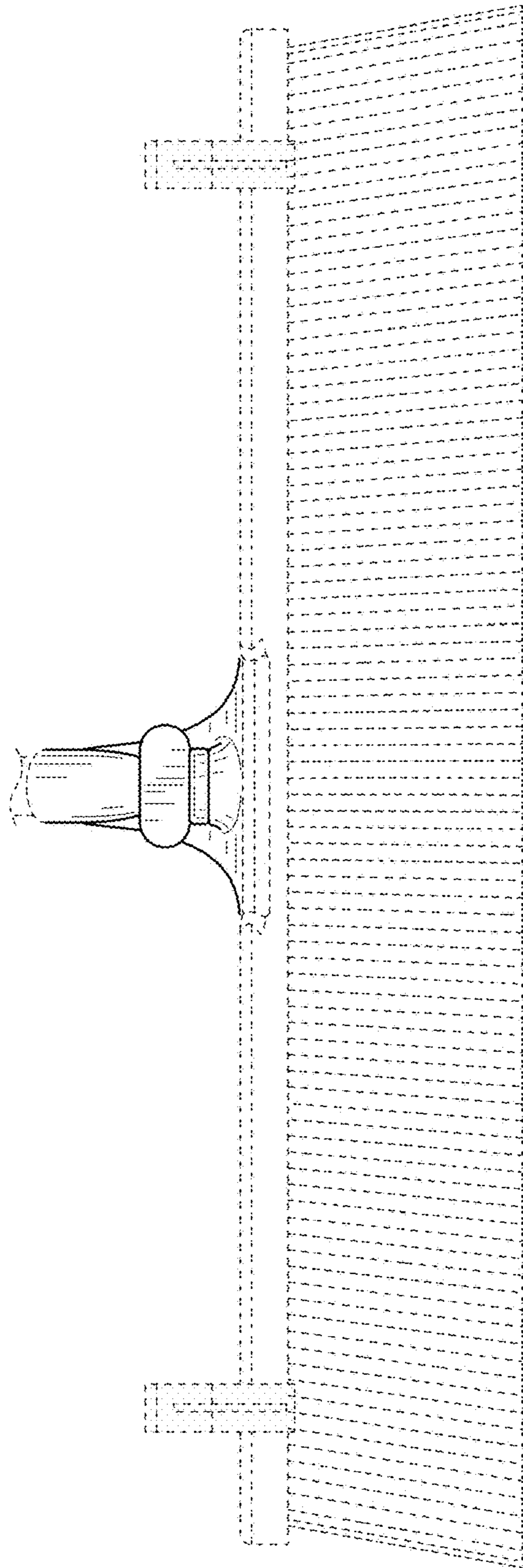
7,819,487 B2 10/2010 Weaver
 D656,735 S 4/2012 Zupan
 D661,040 S * 5/2012 Pellacini D32/50
 D679,911 S 4/2013 Dobson, III
 D694,973 S * 12/2013 Libman D32/40
 D704,405 S * 5/2014 Libman D32/50
 D714,006 S 9/2014 Sanchez
 D720,106 S * 12/2014 Zemel D32/40
 D774,267 S 12/2016 Dobson, III
 D782,203 S 3/2017 Fortier et al.
 D796,139 S 8/2017 Fortier et al.
 D804,123 S * 11/2017 Orsino D32/51
 10,136,788 B2 11/2018 O'Connell et al.
 D897,620 S * 9/2020 Libman D32/50
 D897,690 S * 10/2020 Carriere D4/135
 2003/0180085 A1 9/2003 Hughes
 2013/0031736 A1 2/2013 Martin
 2016/0088994 A1 3/2016 Brown
 2018/0042374 A1 2/2018 Nudelman
 2018/0317735 A1 11/2018 Dobson, III et al.

* cited by examiner

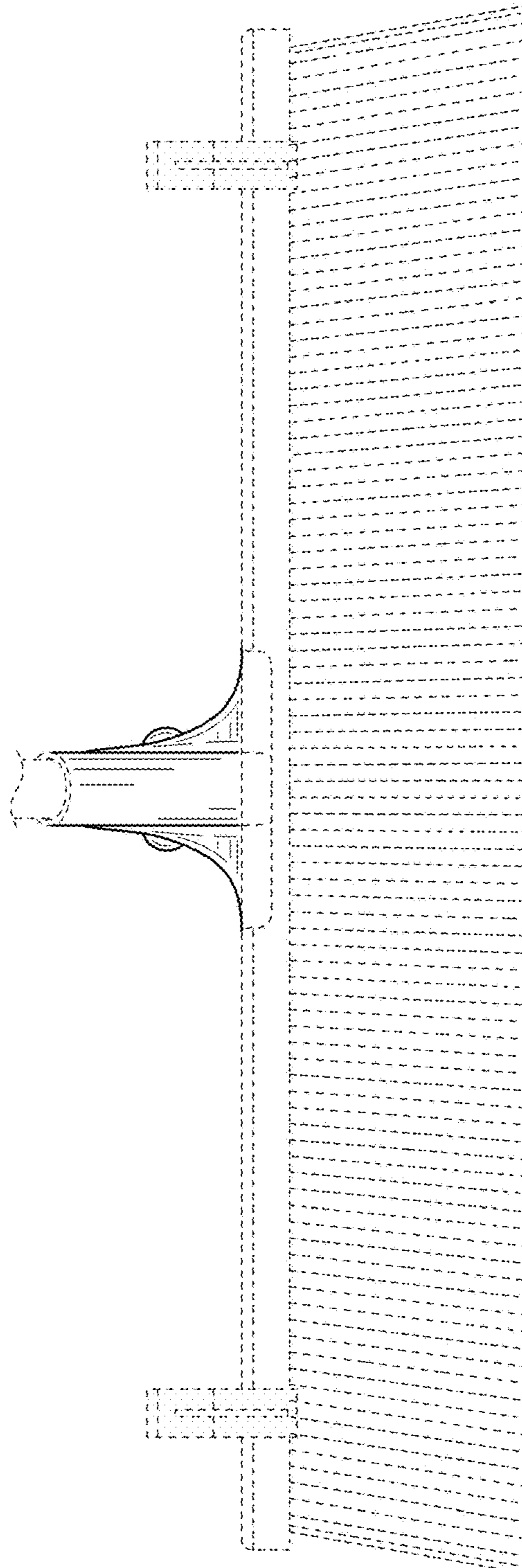
1.1



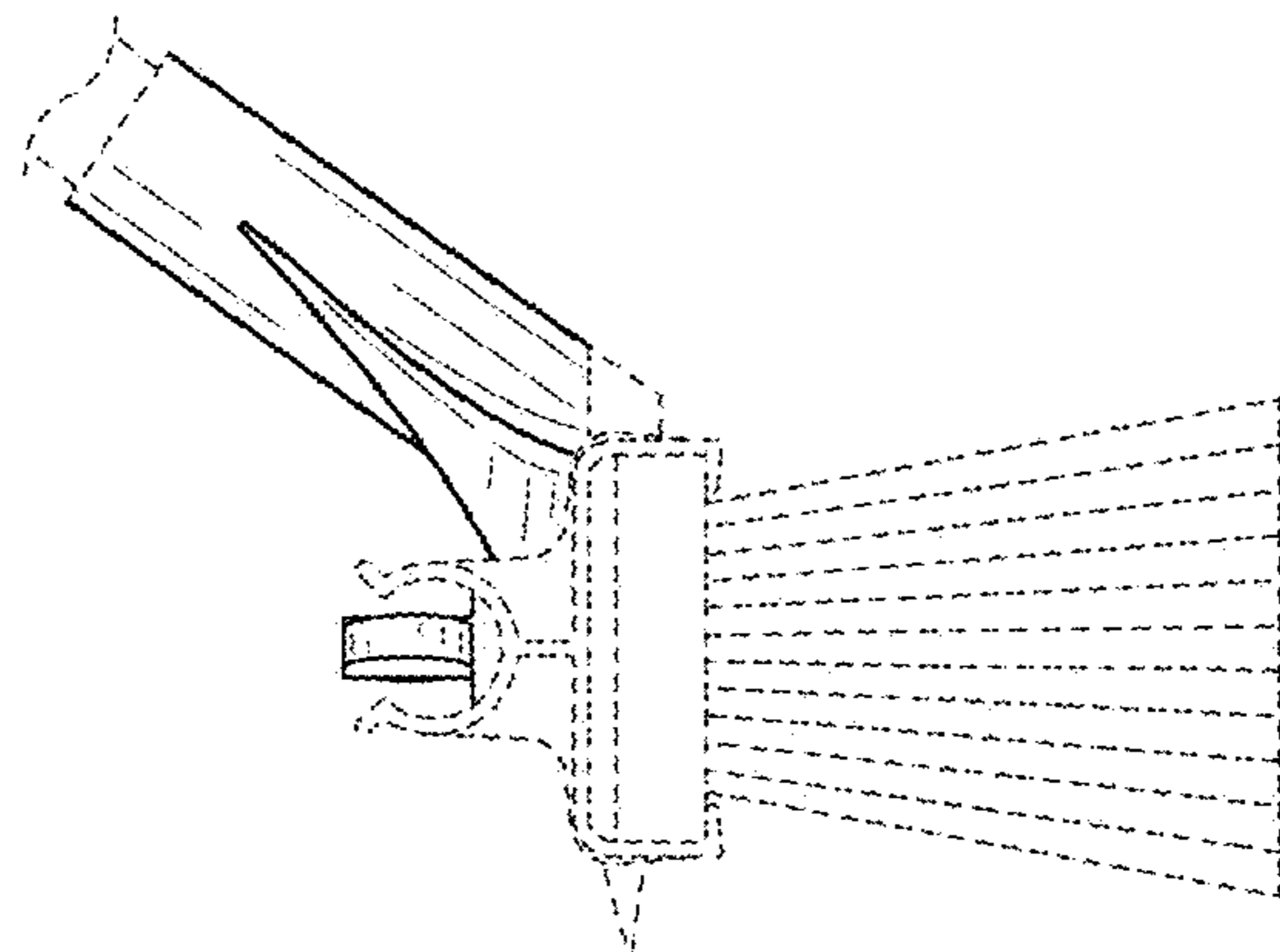
1.2



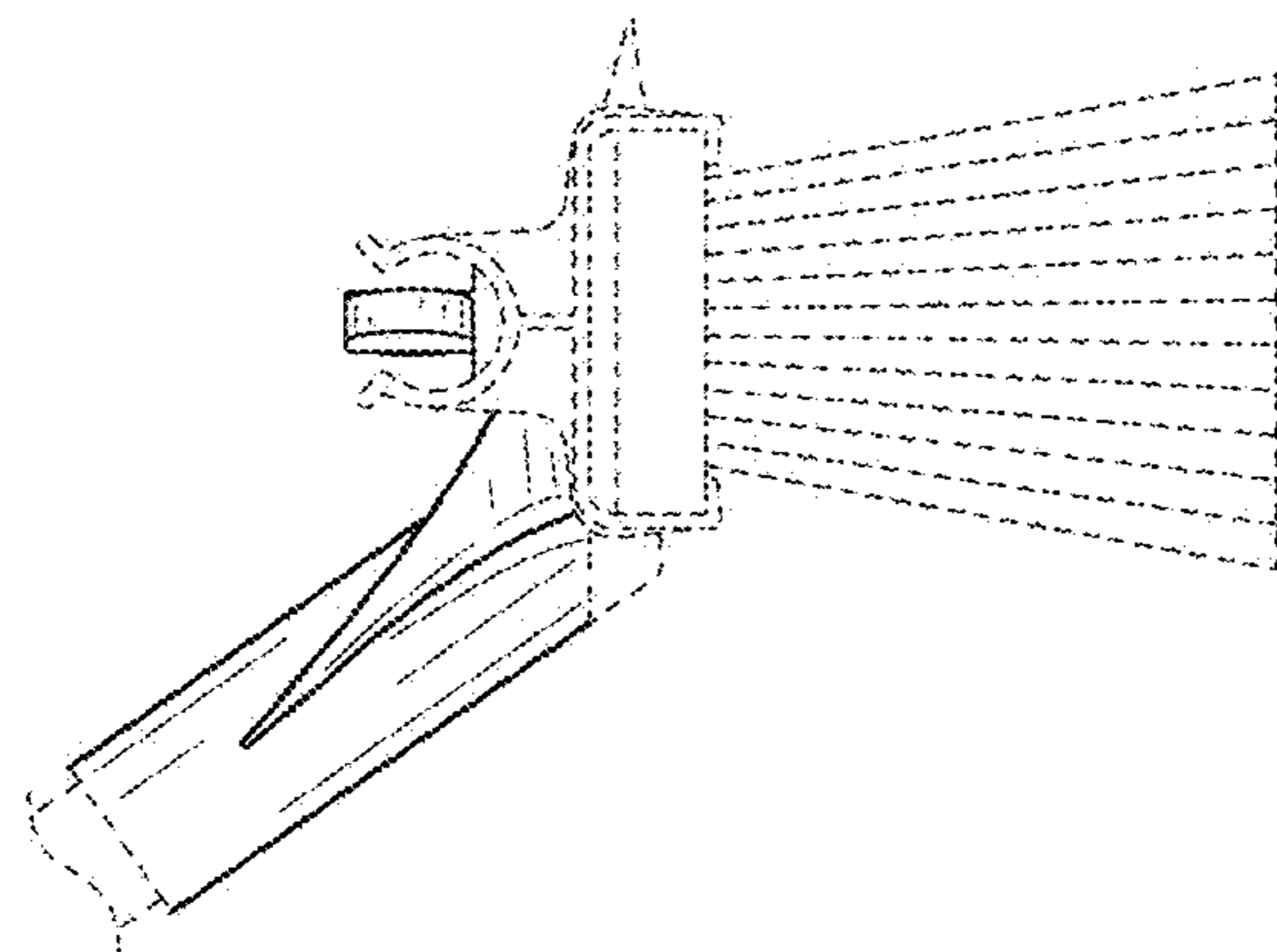
1.3



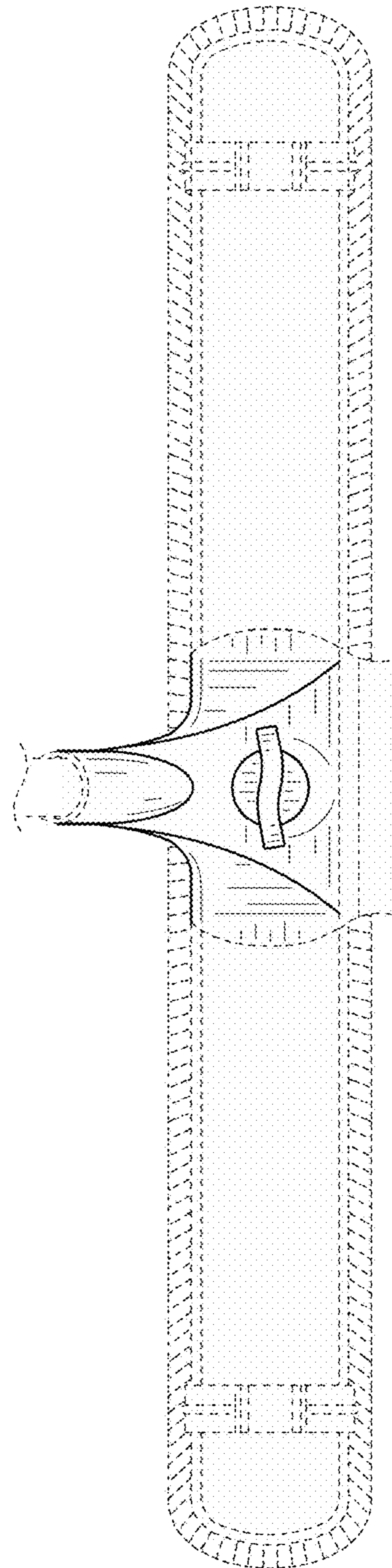
1.4



1.5



1.6



1.7

