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

(10) **Patent No.:** **US D563,106 S**
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(54) **HEAD PORTION OF A TOOTHBRUSH**

3,284,829 A 11/1966 Allen

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(Continued)

FOREIGN PATENT DOCUMENTS

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CA 1082408 7/1980

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/268,028**

www.businesswire.com/cgi-bin/photo.cgi?pw.100102/bb2, Oral-B
CrossAction Toothbrushes, Nov. 1, 2002.

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3, 2003, now Pat. No. Des. 536,876.

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(51) **LOC (8) Cl.** **04-02**

(52) **U.S. Cl.** **D4/101; D4/104**

(58) **Field of Classification Search** D4/101,
D4/104-112, 134; 15/22.1, 28, 29, 110,
15/167.1, 167.2, 207.2, DIG. 5; 132/308-311;
601/139, 141, 142

See application file for complete search history.

(57) **CLAIM**

The ornamental design for a head portion of a toothbrush, as
shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a portion of a toothbrush head
according to the present invention;

FIG. 2 is an elevational view of the head portion according
to the present invention;

FIG. 3 is an elevational view opposite from that shown in
FIG. 2, of the head portion according to the present inven-
tion;

FIG. 4 is a planar view of the head portion according to the
present invention;

FIG. 5 is a planar view opposite from that shown in FIG. 4,
of the head portion according to the present invention; and,

FIG. 6 is an end view of the head portion according to the
present invention.

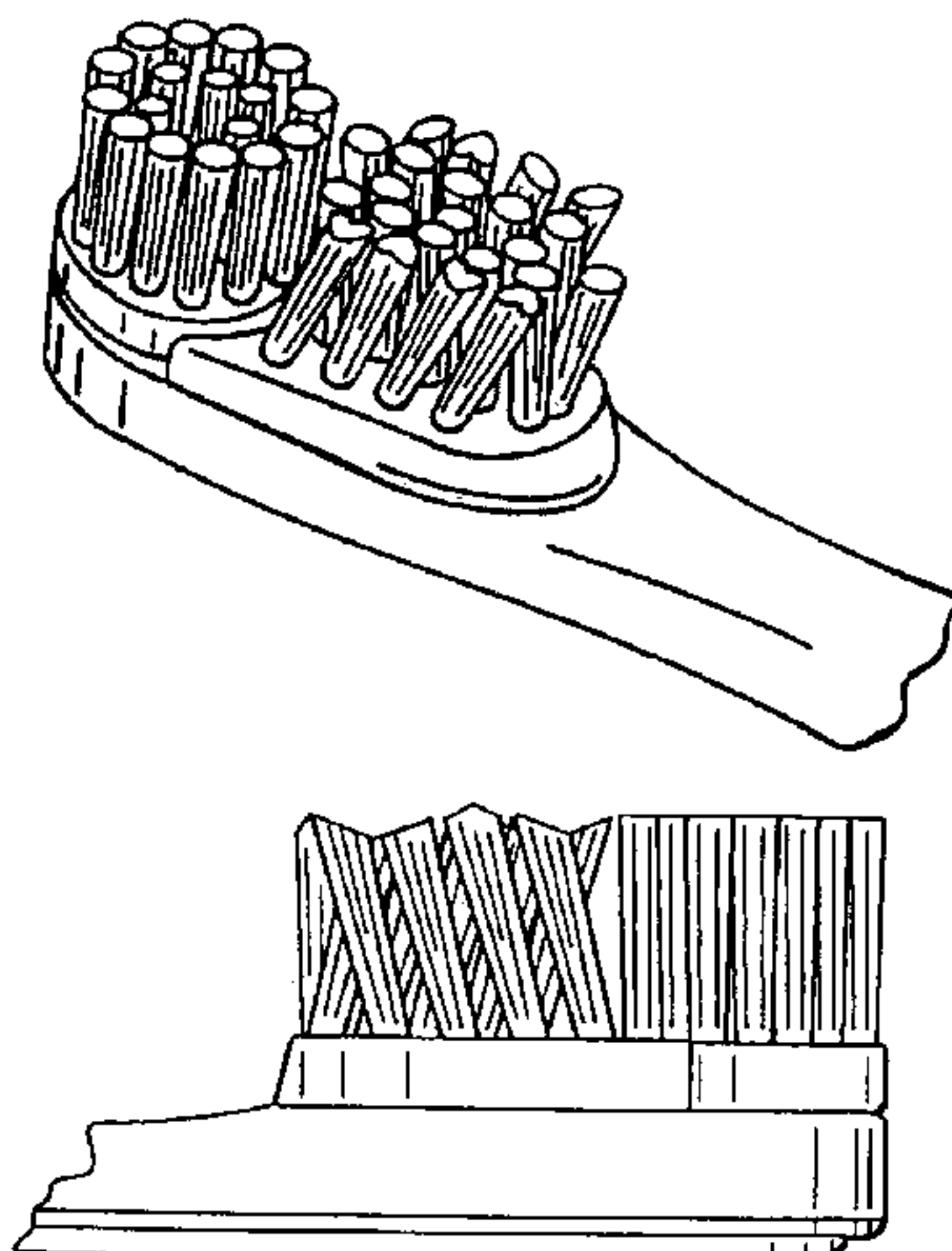
The neck portion is shown broken away to indicate an
unspecified length.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,517,320 A	12/1924	Stoddart
1,557,244 A	10/1925	Domingue
1,947,324 A	2/1934	Zerbee
2,044,863 A	6/1936	Sticht
2,117,174 A	5/1938	Jones
2,140,307 A	12/1938	Belaschk et al.
2,172,624 A	9/1939	Robert
2,558,332 A	6/1951	Artate
2,598,275 A	5/1952	Lakin
2,682,066 A	6/1954	Keely
2,799,878 A	7/1957	Brausch
2,819,482 A	1/1958	Applegate
3,007,441 A	11/1961	Eyer
3,029,451 A	4/1962	Barr
3,129,449 A	4/1964	Cyzer
3,229,318 A	1/1966	Clemens
3,242,516 A	3/1966	Cantor

1 Claim, 3 Drawing Sheets



US D563,106 S

Page 2

U.S. PATENT DOCUMENTS					
			D414,607 S	10/1999	Trojnowski et al.
			D414,608 S	10/1999	Trojanowski et al.
3,400,417 A	9/1968	Moret	5,991,959 A	11/1999	Raven et al.
3,577,579 A	5/1971	Duve et al.	5,996,157 A	12/1999	Smith et al.
3,588,936 A	6/1971	Duve	6,000,083 A	12/1999	Blaustein et al.
3,978,852 A	9/1976	Annoni	6,021,538 A	2/2000	Kressner et al.
4,181,997 A	1/1980	O'Rourke	6,035,476 A	3/2000	Underwood et al.
4,344,202 A	8/1982	Hayat	D422,143 S	4/2000	Beals et al.
4,603,448 A	8/1986	Middleton et al.	D422,144 S	4/2000	Harada
4,709,438 A	12/1987	de Tavares	6,058,541 A	5/2000	Masterman et al.
4,796,323 A	1/1989	Benz	6,065,176 A	5/2000	Watanabe et al.
4,827,552 A	5/1989	Bojar et al.	6,088,870 A	7/2000	Hohlbein
4,845,795 A	7/1989	Crawford et al.	6,092,252 A	7/2000	Fischer et al.
4,845,796 A	7/1989	Mosley	D430,730 S	9/2000	Klein
4,882,801 A	11/1989	Benz	6,115,870 A	9/2000	Solanki et al.
4,989,287 A	2/1991	Scherer	D432,312 S	10/2000	Blaustein et al.
4,991,249 A	2/1991	Suroff	6,138,315 A	10/2000	Schmitt et al.
5,020,179 A	6/1991	Scherer	D433,814 S	11/2000	Blaustein et al.
5,046,213 A	9/1991	Curtis et al.	6,141,817 A	11/2000	Dawson
5,054,149 A	10/1991	Si-Hoe et al.	D434,563 S	12/2000	Lim et al.
5,068,939 A	12/1991	Holland	D434,906 S	12/2000	Beals et al.
5,070,567 A	12/1991	Holland	6,178,579 B1	1/2001	Blaustein et al.
5,088,145 A	2/1992	Whitefield	6,178,582 B1	1/2001	Halm
5,137,039 A	8/1992	Klinkhammer	D437,688 S	2/2001	Beals et al.
5,148,567 A	9/1992	Daub	6,189,693 B1	2/2001	Blaustein et al.
D329,946 S	10/1992	Curtis et al.	6,209,164 B1	4/2001	Sato
D330,286 S	10/1992	Curtis et al.	6,220,772 B1	4/2001	Taylor
5,259,083 A	11/1993	Stansbury, Jr.	6,230,354 B1	5/2001	Sproat
5,274,870 A	1/1994	Stollman	6,230,717 B1	5/2001	Marx et al.
5,276,932 A	1/1994	Byrd	6,237,178 B1	5/2001	Krammer et al.
5,311,632 A	5/1994	Center	6,237,183 B1	5/2001	Fischer
5,335,389 A	8/1994	Curtis et al.	D443,985 S	6/2001	Beals et al.
5,341,537 A	8/1994	Curtis et al.	D444,629 S	7/2001	Etter et al.
5,378,153 A	1/1995	Giuliani et al.	D446,941 S	8/2001	Kraemer
5,383,242 A	1/1995	Bigler et al.	6,272,714 B2	8/2001	Beals
5,392,483 A	2/1995	Heinzelman et al.	D448,171 S	9/2001	Harris et al.
5,398,367 A	3/1995	Lu	6,308,358 B2	10/2001	Gruber et al.
5,446,940 A	9/1995	Curtis et al.	6,308,367 B1	10/2001	Beals et al.
5,465,444 A	11/1995	Bigler et al.	6,311,837 B1	11/2001	Blaustein et al.
D364,740 S	12/1995	Loew	6,314,605 B1	11/2001	Solanki et al.
5,497,526 A	3/1996	Klinkhammer	6,321,407 B1	11/2001	Weilhrauch
5,500,970 A	3/1996	Maurer et al.	D452,380 S	12/2001	Cheong et al.
5,511,275 A	4/1996	Volpenhein et al.	6,360,395 B2	3/2002	Blaustein et al.
D370,347 S	6/1996	Heinzelman et al.	6,371,294 B1	4/2002	Blaustein et al.
5,524,319 A	6/1996	Avidor	D456,998 S	5/2002	Blaustein et al.
D372,584 S	8/1996	Yost et al.	D457,728 S	5/2002	Blaustein et al.
5,598,599 A	2/1997	Haiduk	D458,030 S	6/2002	Blaustein et al.
5,604,951 A	2/1997	Shipp	D458,455 S	6/2002	Blaustein et al.
5,613,259 A	3/1997	Craft et al.	D459,081 S	6/2002	Eliav et al.
5,628,082 A	5/1997	Moskovich	6,405,401 B1	6/2002	Hellerud et al.
5,651,157 A	7/1997	Hahn	D459,894 S	7/2002	Blaustein et al.
5,652,990 A	8/1997	Driesen et al.	D459,895 S	7/2002	Blaustein et al.
5,735,012 A	4/1998	Heinzelman et al.	6,421,867 B1	7/2002	Weilhrauch
5,742,972 A	4/1998	Bredall et al.	D461,642 S	8/2002	Blaustein et al.
5,784,742 A	7/1998	Giuliani et al.	D465,088 S	11/2002	Blaustein et al.
D397,251 S	8/1998	Eguchi et al.	D477,715 S	7/2003	Gatzemeyer et al.
D397,252 S	8/1998	Allende	D479,046 S	9/2003	Winkler
5,802,656 A	9/1998	Dawson et al.	2001/0001334 A1	5/2001	Gruber et al.
5,815,872 A	10/1998	Meginniss et al.	2001/0001335 A1	5/2001	Beals
D400,713 S	11/1998	Solanki	2001/0004781 A1	6/2001	Blaustein et al.
D402,112 S	12/1998	Moskovich	2001/0022277 A1	9/2001	Blaustein et al.
5,842,244 A	12/1998	Hilfinger et al.	2001/0054561 A1	12/2001	Blaustein et al.
5,842,249 A	12/1998	Sato	2002/0017474 A1	2/2002	Blaustein et al.
5,850,655 A	12/1998	Göcking et al.	2002/0020645 A1	2/2002	Blaustein et al.
D403,510 S	1/1999	Menke et al.	2002/0029988 A1	3/2002	Blaustein et al.
D406,464 S	3/1999	Yost et al.	2002/0032941 A1	3/2002	Blaustein et al.
5,875,510 A	3/1999	Lamond et al.	2002/0038772 A1	4/2002	Blaustein et al.
5,881,425 A	3/1999	Hudson et al.	2002/0078514 A1	6/2002	Blaustein et al.
5,896,614 A	4/1999	Flewitt	2002/0152564 A1	10/2002	Blaustein et al.
5,901,397 A	5/1999	Häfele et al.			
5,908,038 A	6/1999	Bennett			
5,926,900 A	7/1999	Bennett			
5,946,758 A	9/1999	Hohlbein et al.			

US D563,106 S

Page 3

2002/0162180 A1 11/2002 Blaustein et al.

FOREIGN PATENT DOCUMENTS

CA	1288555	9/1991	JP	D1121548	9/2001
CA	2282957	3/2000	JP	D1121780	9/2001
CH	384539	2/1965	JP	D1126561	11/2001
CN	1121802 A	5/1996	KR	1986-0001137	6/1986
CN	3073970	2/1998	TW	273146	7/1982
CN	3073971	2/1998	TW	414034	9/1985
CN	3085155	9/1998	TW	339233	6/1987
CN	3092842	12/1998	TW	212909	9/1993
CN	3092843	12/1998	TW	319683	11/1997
CN	2324988	6/1999	TW	406557	5/1998
DE	2311043	9/1974	TW	342670	10/1998
DE	2402785	7/1975	TW	362003	6/1999
DE	2654853	6/1978	TW	455298	9/2001
DE	2736286	7/1978	TW	455299	9/2001
DE	4201873	5/1993	WO	81/03604	12/1981
DE	4313970	11/1994	WO	93/09729	5/1993
DE	19734287	2/1999	WO	93/20777	10/1993
EP	0054043	11/1985	WO	94/03124	2/1994
EP	0322562	7/1989	WO	94/09678	5/1994
EP	0165546	12/1989	WO	94/09676	11/1994
EP	0208401	5/1991	WO	95/25450	9/1995
EP	0254397	7/1991	WO	95/33419	12/1995
EP	0357863	7/1992	WO	96/01578	1/1996
EP	0580406	1/1994	WO	96/02165	2/1996
EP	0546203	8/1996	WO	96/07343	3/1996
EP	0716573	1/1997	WO	96/15696	5/1996
EP	641181	12/1998	WO	96/16571	6/1996
EP	0708609	12/1998	WO	96/20654	7/1996
EP	090030	7/1999	WO	96/28994	9/1996
EP	0957707	1/2002	WO	96/38069	12/1996
FR	920155	3/1947	WO	97/00650	1/1997
FR	1121618	8/1956	WO	97/01307	1/1997
FR	2196782	3/1974	WO	97/03587	2/1997
FR	2587183	3/1987	WO	97/07706	3/1997
FR	2769187	4/1999	WO	97/07707	3/1997
FR	2773961	7/1999	WO	97/20484	6/1997
GB	914844	1/1963	WO	97/24048	7/1997
GB	989953	4/1965	WO	97/25898	7/1997
GB	1098933	1/1968	WO	97/31555	9/1997
GB	1307887	2/1973	WO	97/34545	9/1997
GB	2371217	7/2002	WO	97/36517	10/1997
GB	D3004958	10/2002	WO	97/41753	11/1997
JP	D677262	4/1986	WO	98/00049	1/1998
JP	D722122	12/1987	WO	98/01055	1/1998
JP	D801748	12/1990	WO	98/05241	2/1998
JP	5-146314	6/1993	WO	98/07348	2/1998
JP	D916459	1/1995	WO	98/09550	3/1998
JP	D970465	12/1996	WO	98/12947	4/1998
JP	D970835	12/1996	WO	98/14088	4/1998
JP	D971532	1/1997	WO	98/18364	5/1998
JP	D971533	1/1997	WO	98/23223	6/1998
JP	D999375	12/1997	WO	98/26729	6/1998
JP	D1023101	10/1998	WO	98/26730	6/1998
JP	D1023566	10/1998	WO	98/35584	8/1998
JP	D1032248	2/1999	WO	98/38889	9/1998
JP	D1036211	4/1999	WO	98/43515	10/1998
JP	11-235234	8/1999	WO	98/57569	12/1998
JP	D1047289	8/1999	WO	98/57570	12/1998
JP	11-253233	9/1999	WO	99/03372	1/1999
JP	D1050132	9/1999	WO	99/07251	2/1999
JP	D1052397	10/1999	WO	99/07252	2/1999
JP	D1053501	11/1999	WO	99/12492	3/1999
JP	D1053747	11/1999	WO	99/23910	5/1999
JP	D1054228	11/1999	WO	99/35911	7/1999
JP	D1054250	11/1999	WO	99/37180	7/1999
JP	D1054265	11/1999	WO	99/37182	7/1999
JP	D1058415	1/2000	WO	99/56660	11/1999
JP	D1085935	9/2000	WO	99/65358	12/1999
JP	D1104411	3/2001	WO	00/15075	3/2000

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WO	00/40116	7/2000
WO	00/41645	7/2000
WO	00/47083	8/2000
WO	00/49911	8/2000
WO	00/56186	9/2000
WO	00/57747	10/2000
WO	01/12013	2/2001
WO	01/52696	7/2001

OTHER PUBLICATIONS

www.gillettenews.com/oralb/index.htm, Oral B Cross Action Toothbrushes, Nov. 1, 2002.

Photos of Bio Brush Industries (See IDS filed May 31, 2002 in U.S. Appl. No. 09/991,772, filed Nov. 16, 2001, withdrawn, and refiled as Continuation Application U.S. Appl. No. 10/082,503, filed Feb. 25, 2002, (Exhibits A, B, C).

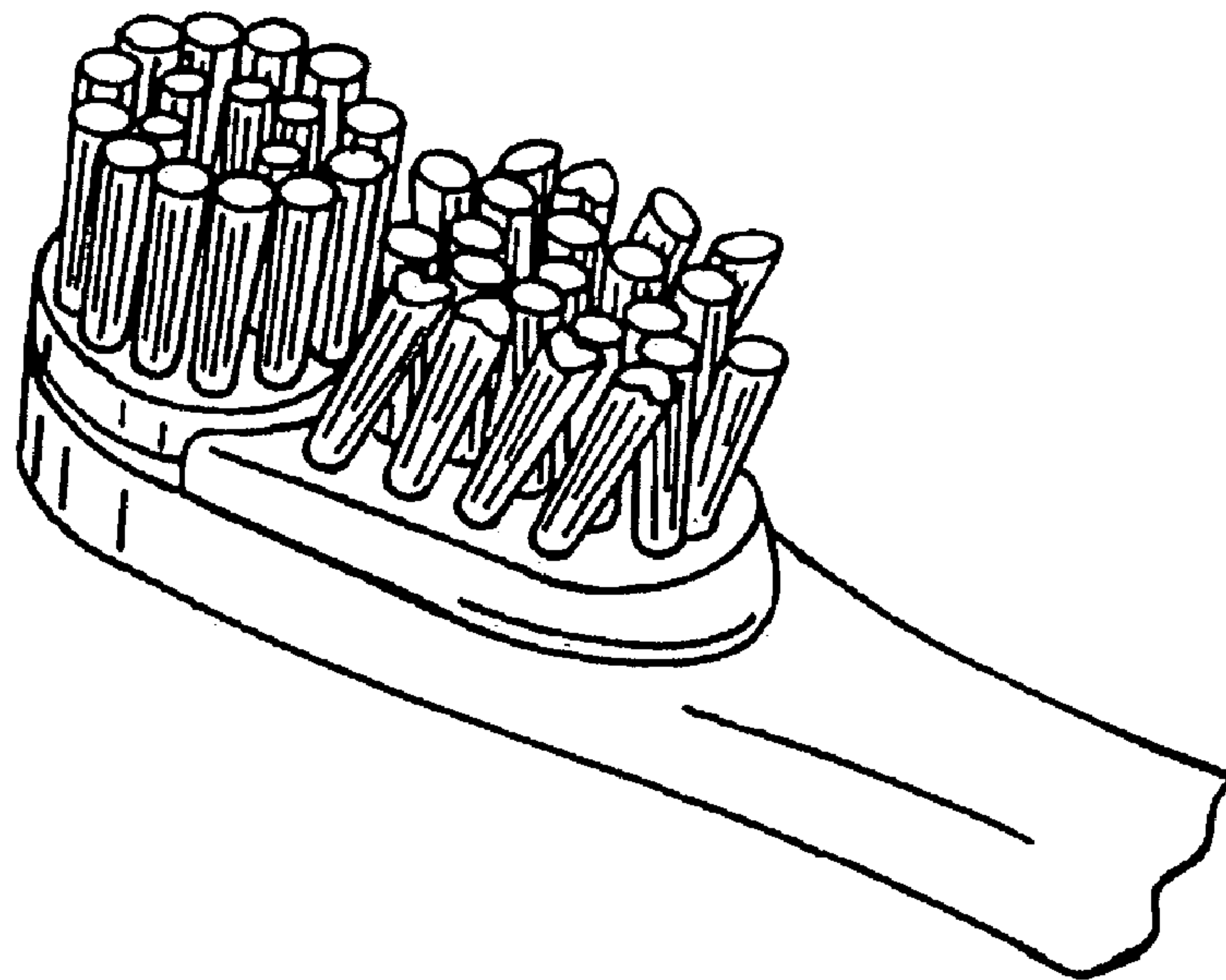


FIG. 1

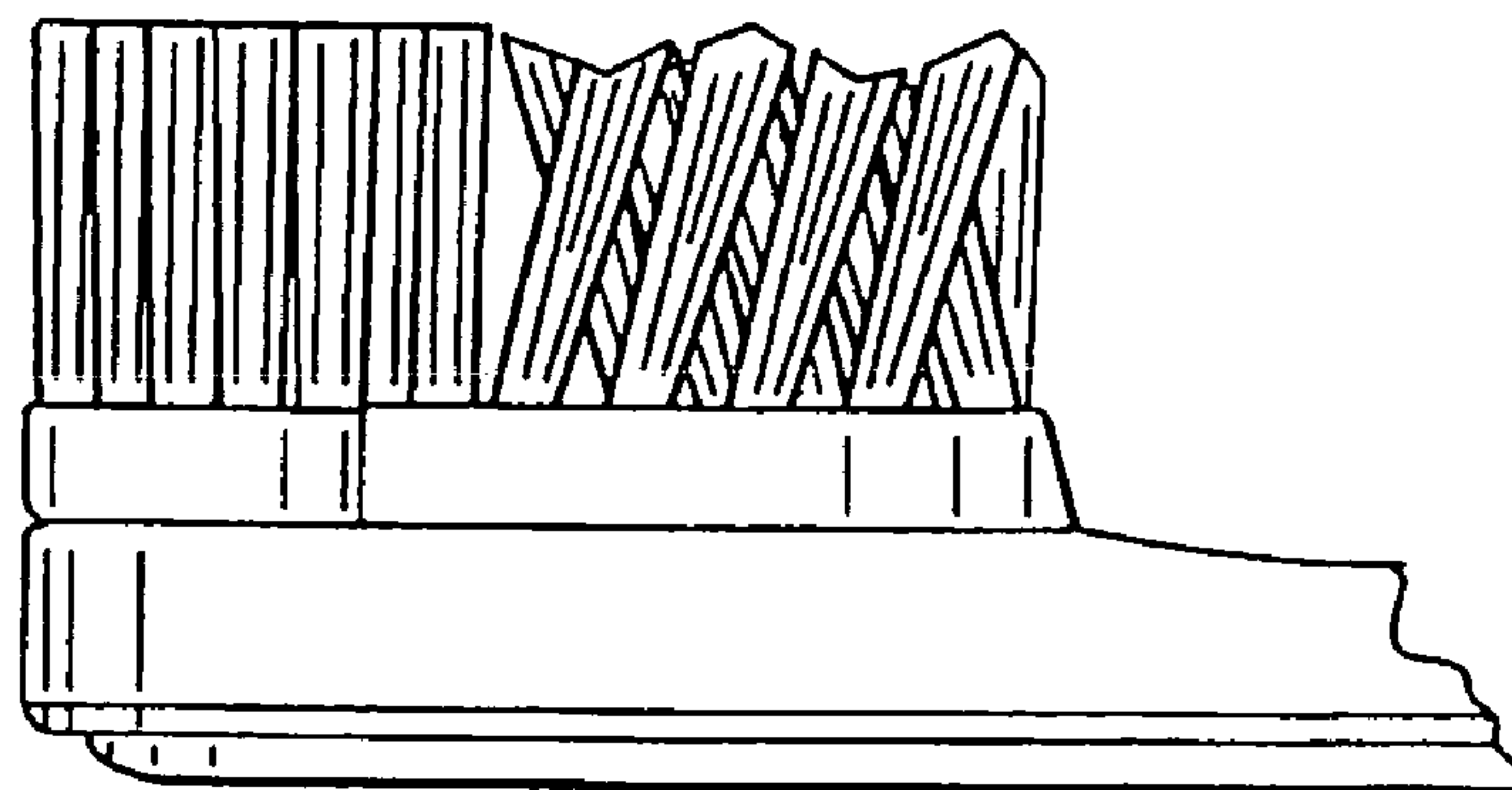


FIG. 2

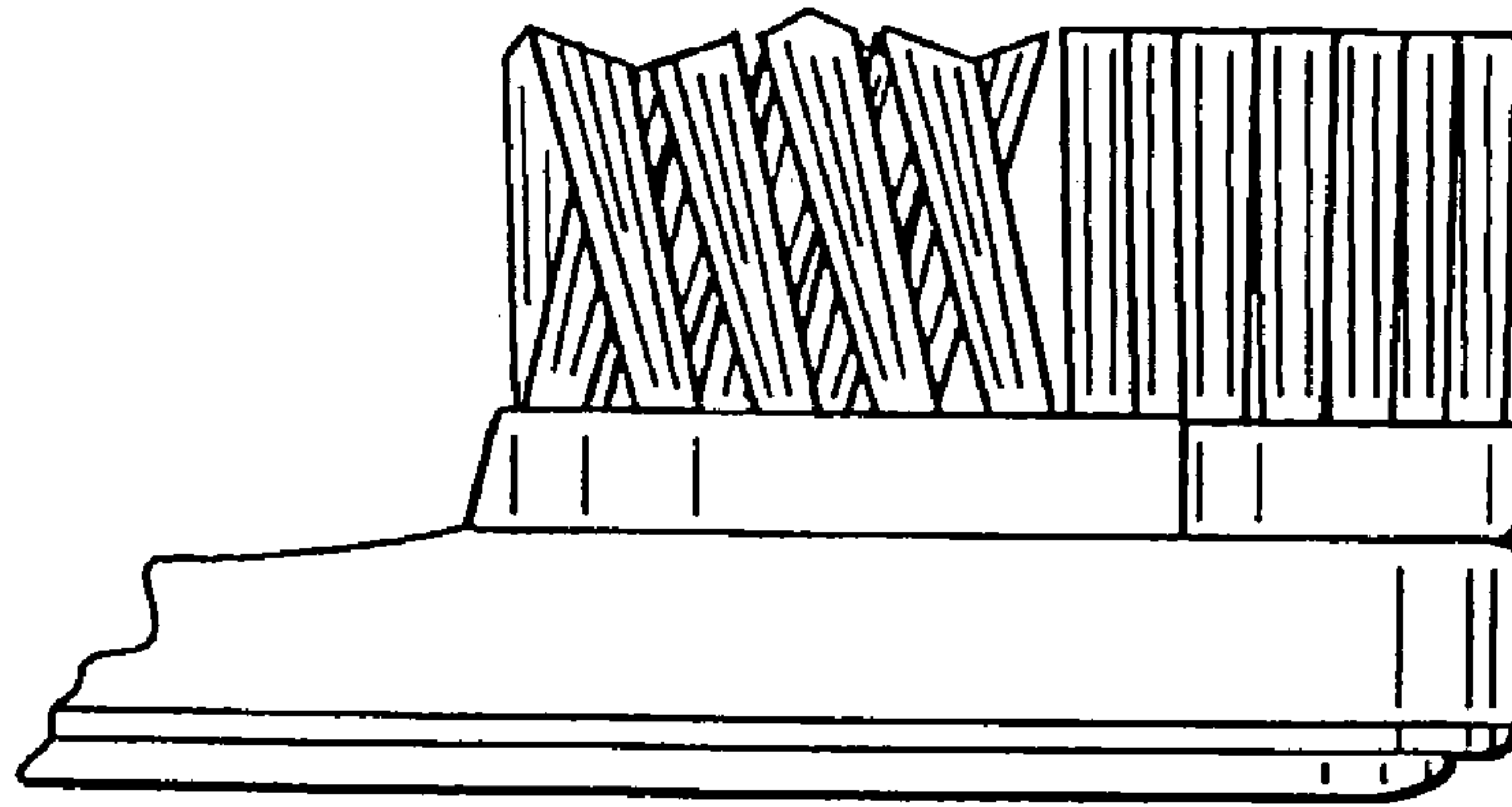


FIG. 3

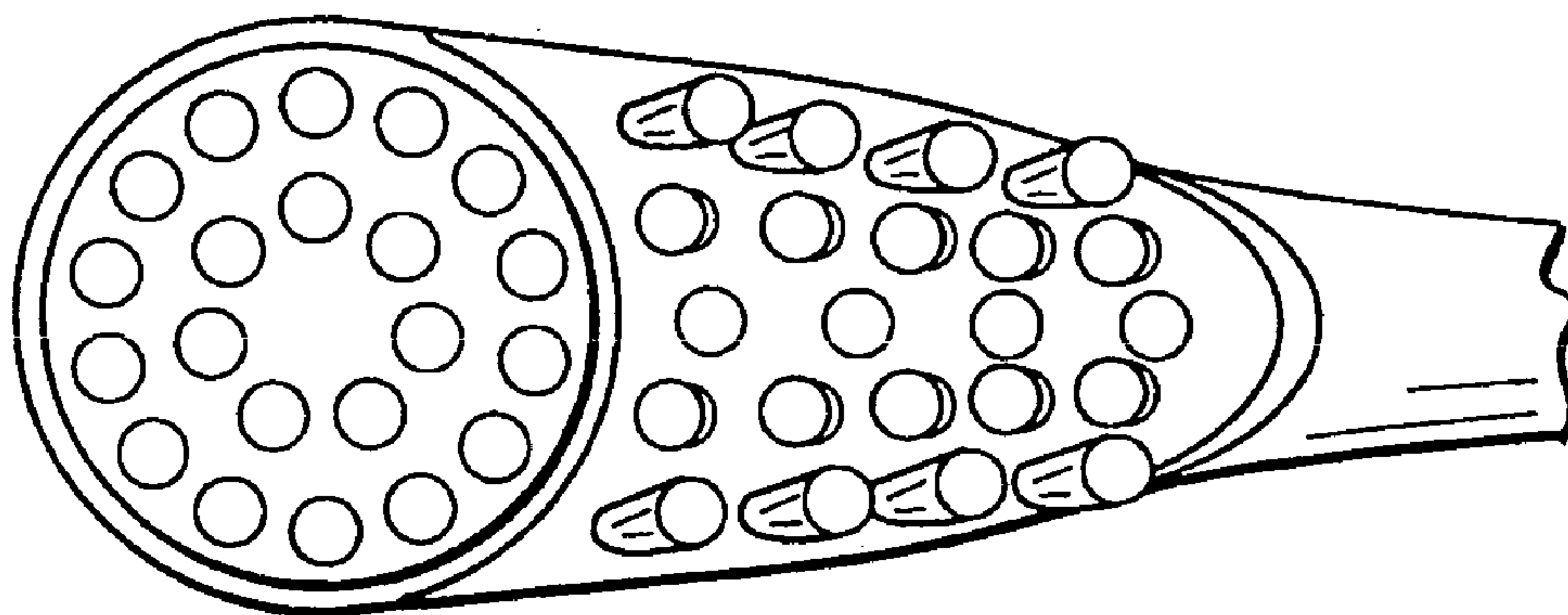


FIG. 4

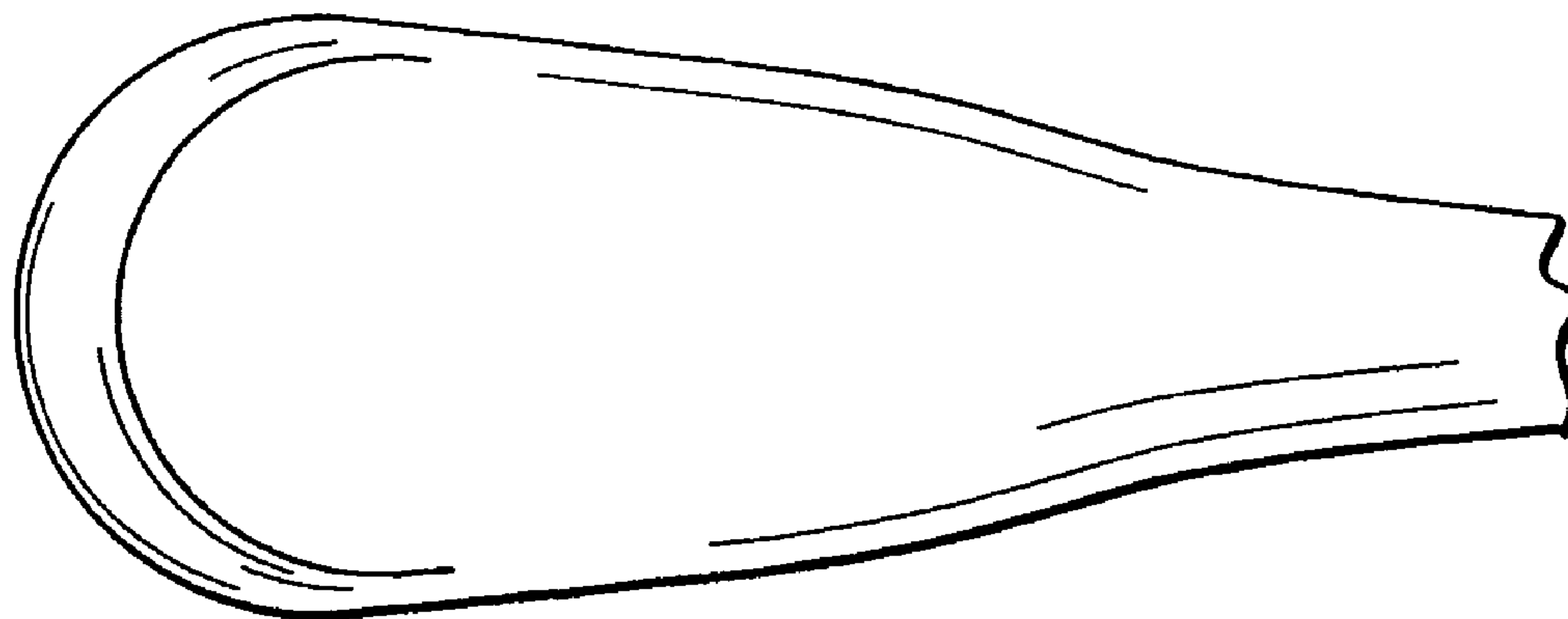


FIG. 5

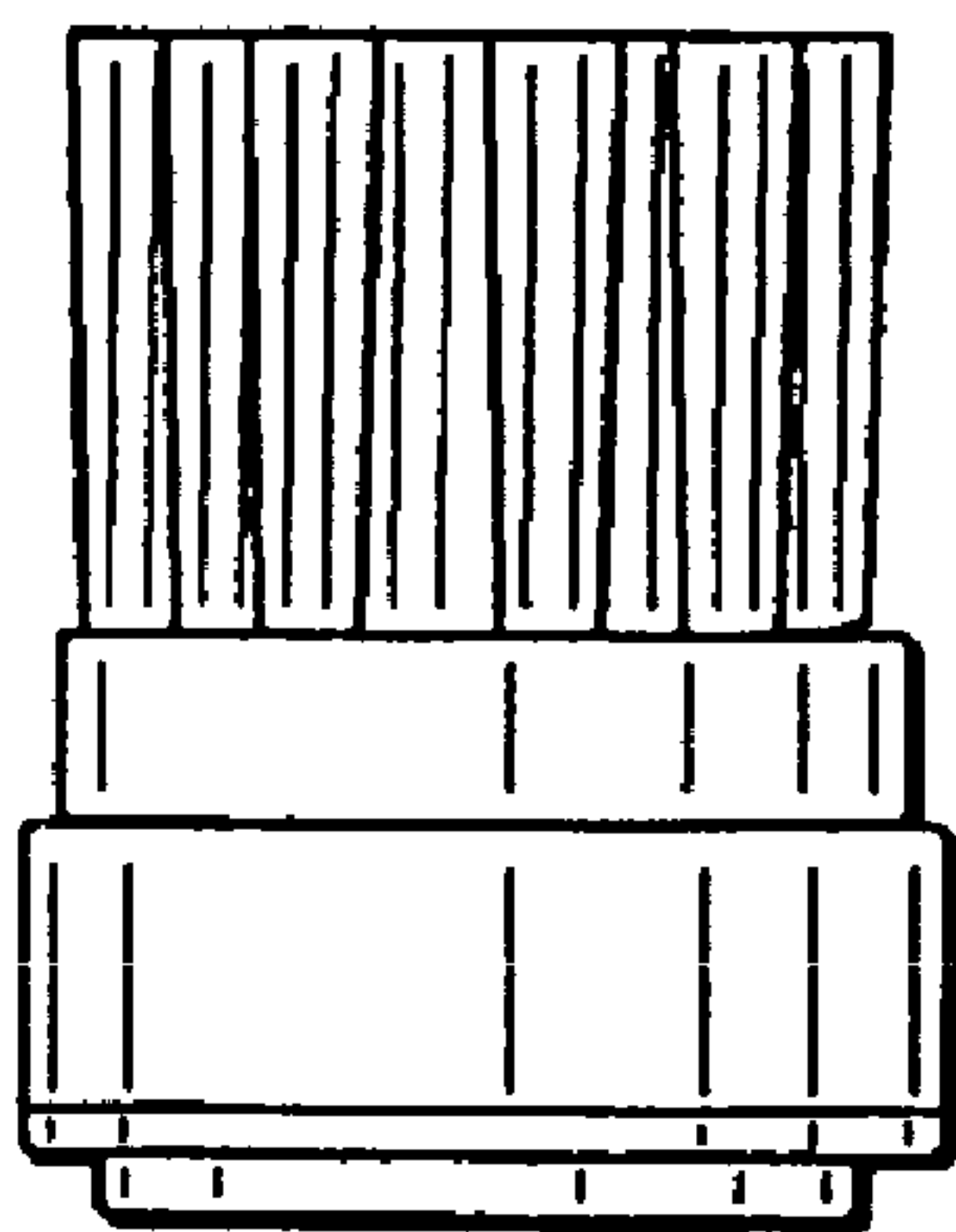


FIG. 6