



US00D931461S

(12) **United States Design Patent** (10) **Patent No.:** **US D931,461 S**
Zenker et al. (45) **Date of Patent:** **** Sep. 21, 2021**

(54) **BONE PLATE**

(71) Applicant: **DePuy Synthes Products, Inc.**,
Raynham, MA (US)
(72) Inventors: **Martin Zenker**, Zuchwil (CH); **André Galm**, Basel (CH); **Daniel Andermatt**,
Möhlin (CH); **Martin Jaeger**, Freiburg
(DE); **Arabella Fontana**, Zuchwil
(CH); **Marcel Schweizer**, Zuchwil (CH)
(73) Assignee: **DePuy Synthes Products, Inc.**,
Raynham, MA (US)

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

(21) Appl. No.: **29/727,450**

(22) Filed: **Mar. 11, 2020**

(51) **LOC (13) Cl.** **24-03**

(52) **U.S. Cl.**
USPC **D24/155**

(58) **Field of Classification Search**
USPC D2/617; D3/201, 203.1, 203.6, 203.7,
D3/304, 306, 314; D8/382; D14/205,
D14/223; D15/199; D24/101, 102, 104,
D24/133, 141, 155, 171, 188, 190, 193,
D24/194, 196, 216, 224, 227, 228, 229,
D24/231; D29/123

CPC .. A41D 19/00; A41D 19/0017; A41D 19/015;
A41D 19/0055; A61B 17/80; A61B
2017/00292; A61B 2017/00796; A61B
17/00969; A61B 50/30; A61B 50/33;
A61B 17/8061; A61B 2017/564; A61B
17/683; A61B 17/68; A61B 17/86; A61B
17/8057; A61B 17/8052; A61B 17/8047;
A61B 17/8042; A61B 17/8038; A61B
17/8033; A61F 2/00; A61F 2/02; A61F
2002/046; A61F 2/12; A61F 2/20; A61F
2/203; A61F 2/26; A61F 2/28; A61F
2002/2853; A61F 2/30; A61F 2/50; A61F
2002/5038; A61F 2002/5058; A61F
2002/5064; A61F 2/52; A61F 2002/526;
A61F 2/54; A61F 2/583;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

8,523,919 B2 9/2013 Huebner et al.
D766,434 S * 9/2016 DaCosta D24/155
(Continued)

FOREIGN PATENT DOCUMENTS

CN 103750894 A 4/2014
EP 1743586 A1 1/2007

OTHER PUBLICATIONS

Synthes, "Clavicle Hook Plate", first available Oct. 2003. (https://www.shoulderdoc.co.uk/documents/synthes_clavicle_hook.pdf) (Year: 2003).*

(Continued)

Primary Examiner — Lauren D McVey

Assistant Examiner — Justin A Johnson

(74) *Attorney, Agent, or Firm* — Raymond N. Scott, Jr.

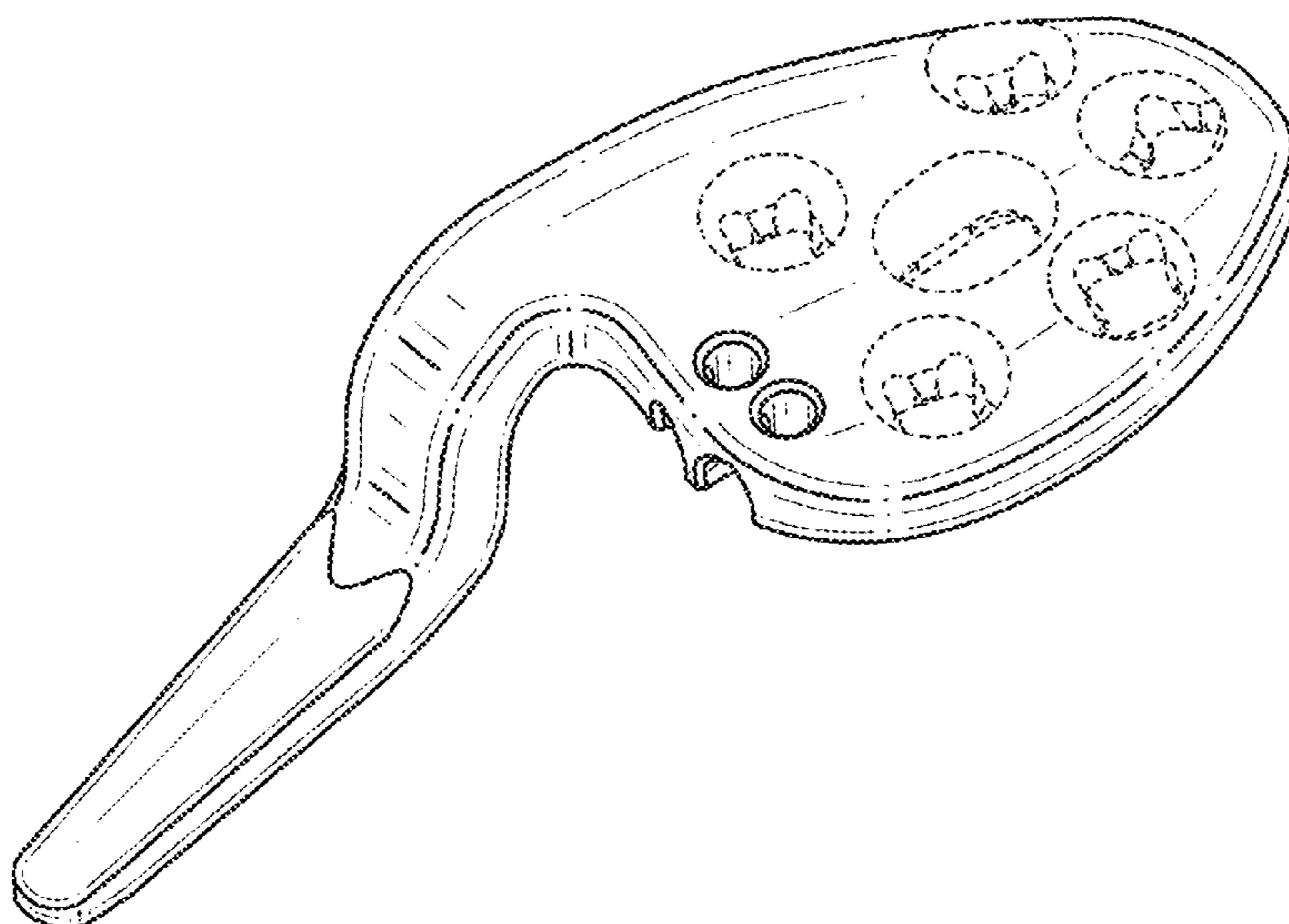
(57) **CLAIM**

We claim the ornamental design for a bone plate, as shown and described.

DESCRIPTION

FIG. 1: Is a perspective view of the bone plate, from the top position;
FIG. 2: is a top thereof;
FIG. 3: is a right side view thereof;
FIG. 4: is a bottom view thereof;
FIG. 5: is a left side view thereof;
FIG. 6: is a front view thereof; and,
FIG. 7: is a back view thereof.
The broken lines in the drawings illustrate portions of the bone plate and form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(58) **Field of Classification Search**

CPC A61F 2/60; A61F 2/604; A61F 2/64; A61F 2/66; A61F 2002/6614; A61F 2002/6621; A61F 2002/6628; A61F 2/82; A61F 2/86; A61F 2/88; A61F 2/885; A61F 2/4014; A61F 2002/4018; A61F 2002/4022; A61F 2002/4029; A61F 2002/4033; A61F 2002/4037; A61F 2002/4044; A61F 2002/4051; A61F 2/4059; A61F 2002/4096; A61F 2002/4092; A61F 2002/4088; A61F 2002/4085; A61F 2/4081; A61F 2002/4077; A61F 2002/4074; A61F 2002/407; A61F 2002/4066; A61F 2002/4062; A61F 2/58; A61N 1/05; A61N 1/0551; A61N 1/20; A61M 16/04

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D780,926 S *	3/2017	DaCosta	D24/155
D786,436 S *	5/2017	Kohler	D24/155
D812,757 S *	3/2018	Barnes	D24/155
D814,635 S *	4/2018	Asfora	D24/155
D874,004 S *	1/2020	DaCosta	D24/155
D879,296 S *	3/2020	Shah	D24/155

D891,617 S *	7/2020	DaCosta	A61B 17/808 D24/155
D910,178 S *	2/2021	DaCosta	A61B 17/809 D24/155
D910,181 S *	2/2021	DaCosta	A61B 17/80 D24/155
2007/0185493 A1	8/2007	Feibel et al.	
2007/0233112 A1	10/2007	Orbay et al.	
2013/0041375 A1*	2/2013	Fierlbeck	A61B 17/809 606/71
2015/0282850 A1	10/2015	Fierlbeck et al.	
2015/0366570 A1	12/2015	Mebarak	
2016/0135858 A1*	5/2016	DaCosta	A61B 17/80 606/281
2018/0344356 A1*	12/2018	Zenker	A61B 17/808

OTHER PUBLICATIONS

Narang Medical, "Clavicle Hook Plates", first available Mar. 18, 2011. (<https://www.youtube.com/watch?v=hySd8xBCIMQ&t=1s>) (Year: 2011).*

Depuy Synthes, "2.7 MM VA LCP Clavicle System", first available 2021. (<https://www.jnjmedicaldevices.com/en-US/node/32833>) (Year: 2021).*

Johnson and Johnson Medical Devices, "3.5 mm LCP® Clavicle Hook Plate", first available Jan. 28, 2021. (<https://web.archive.org/web/20210128021526/https://www.jnjmedicaldevices.com/en-US/product/35-mm-lcpr-clavicle-hook-plate>) (Year: 2021).* English Translation of CN103750894A.

* cited by examiner

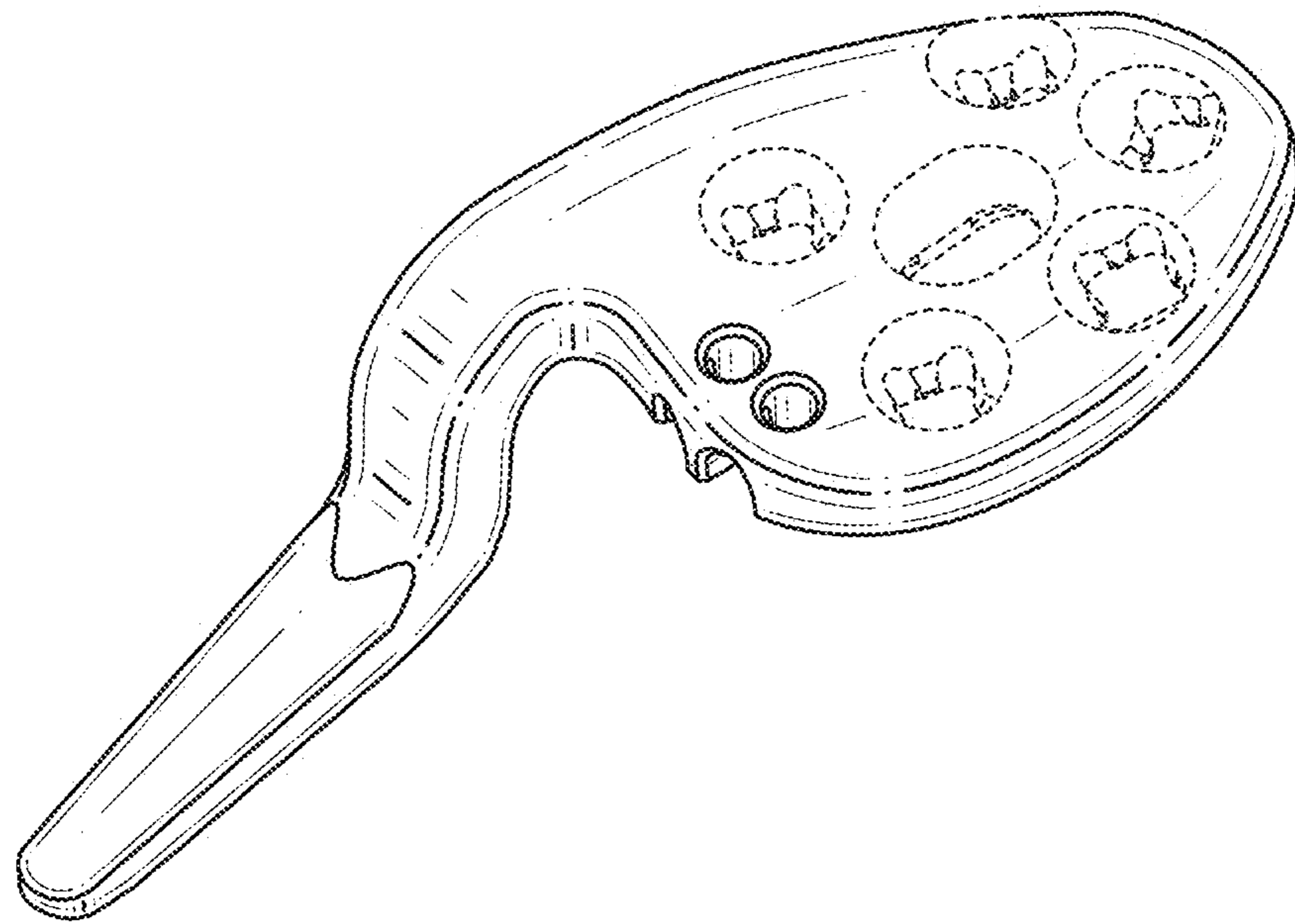


FIG. 1

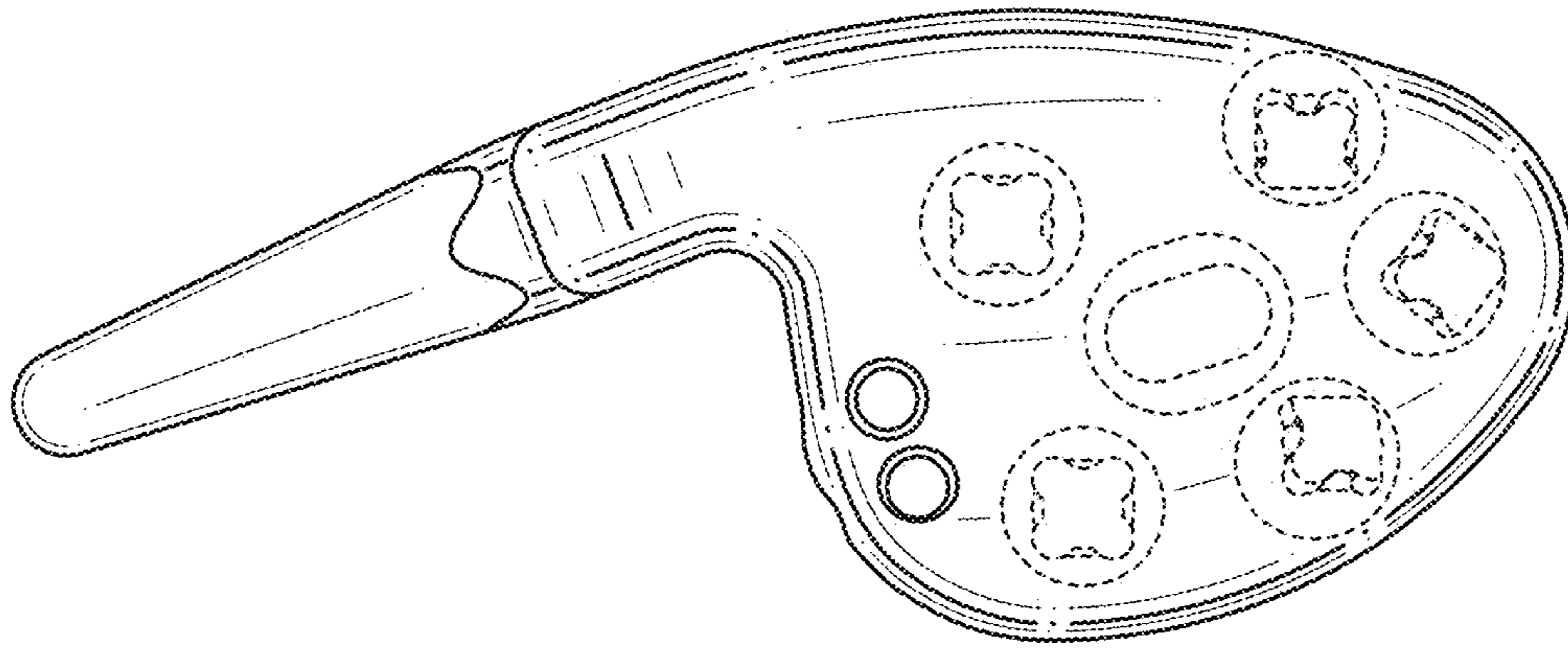


FIG. 2

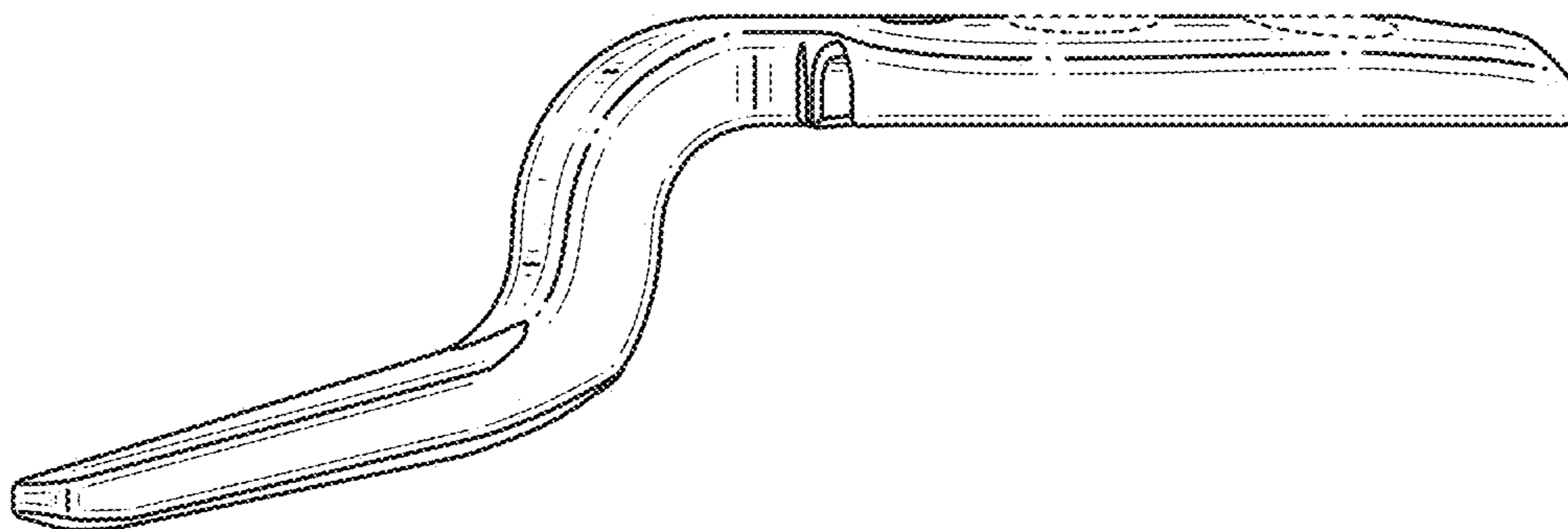


FIG. 3

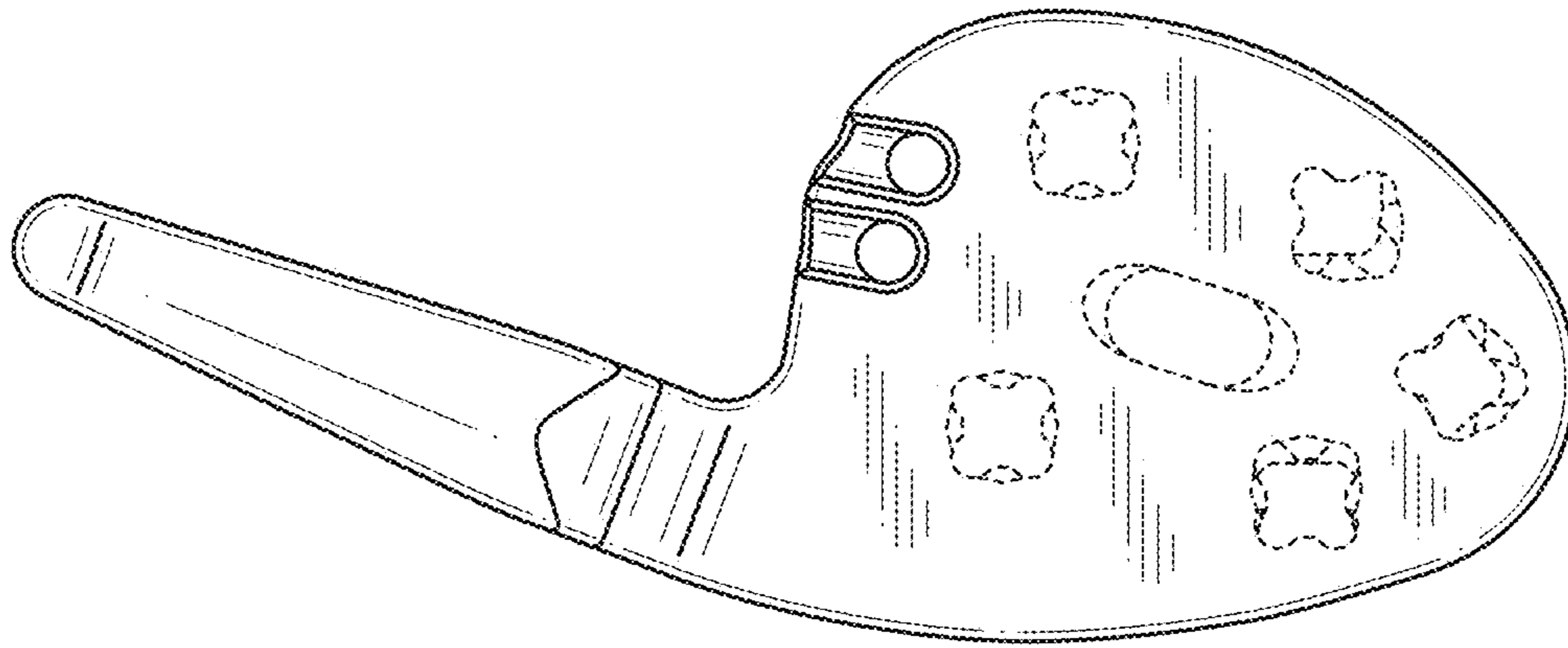


FIG. 4

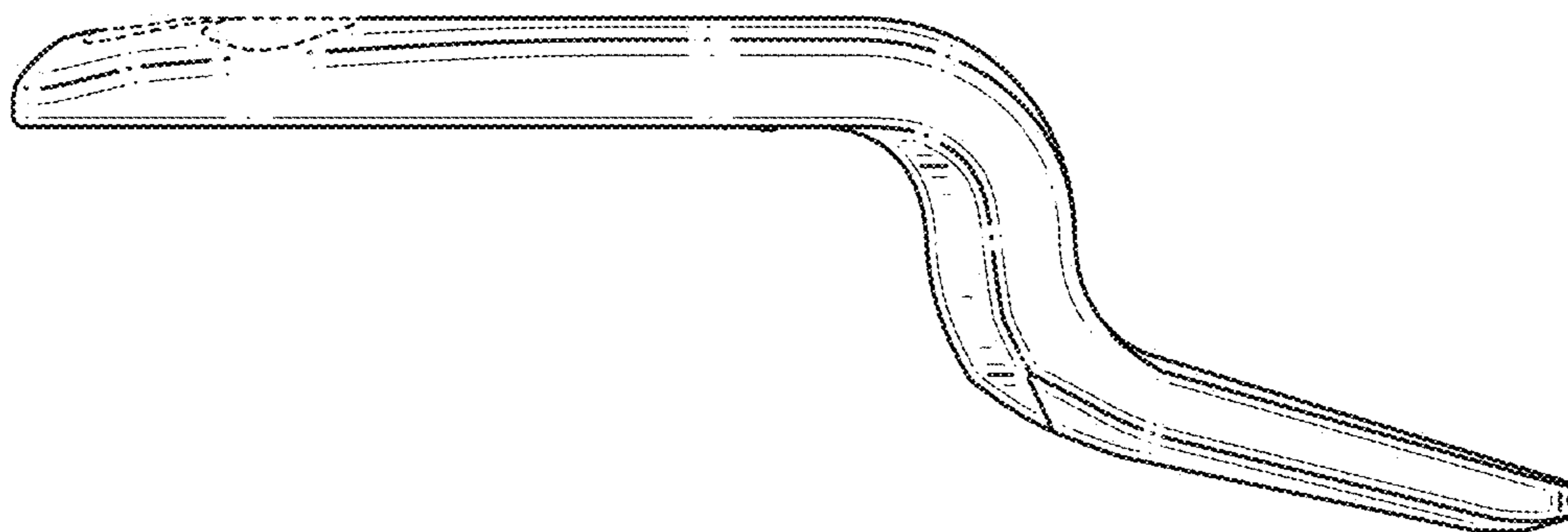


FIG. 5

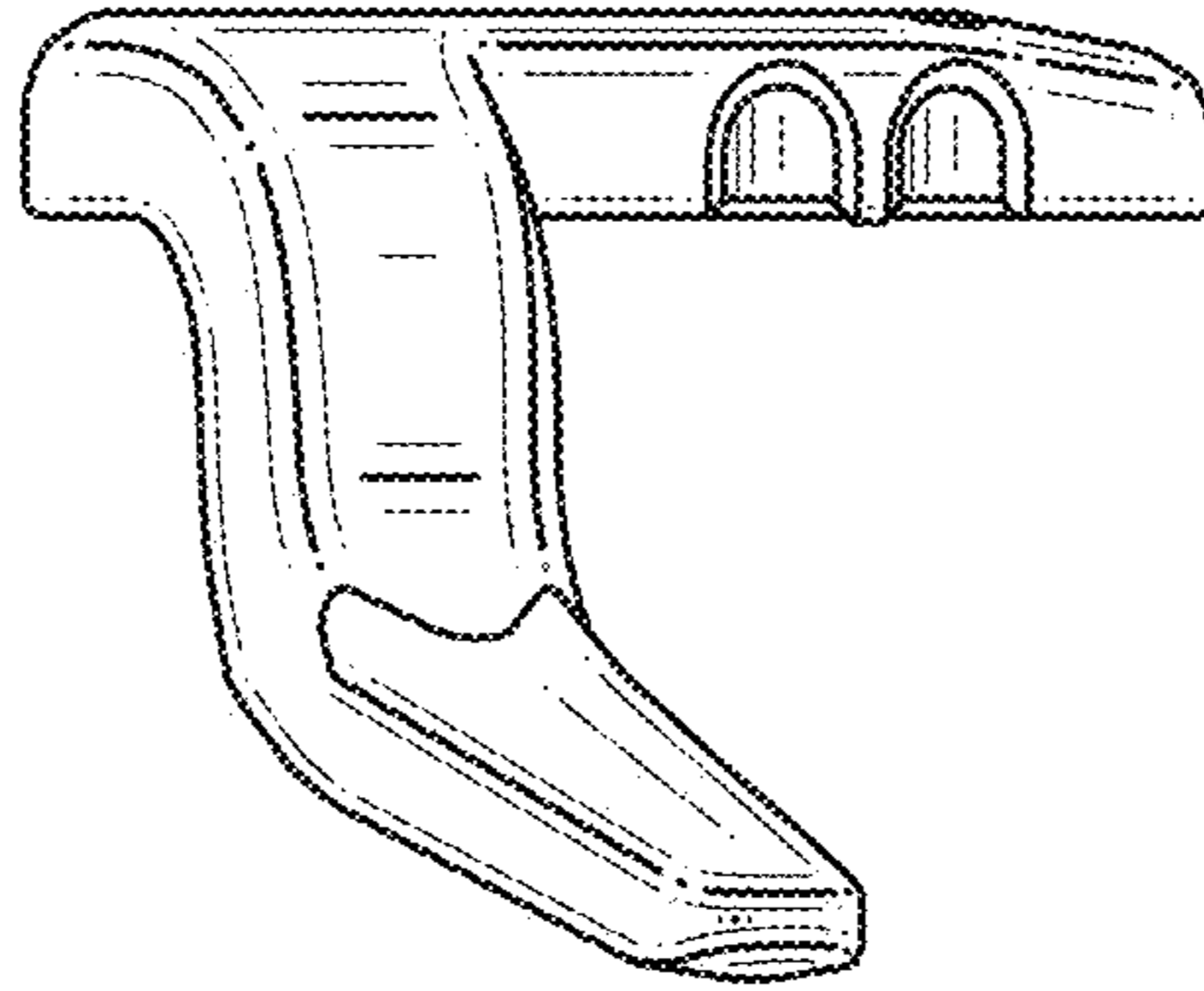


FIG. 6

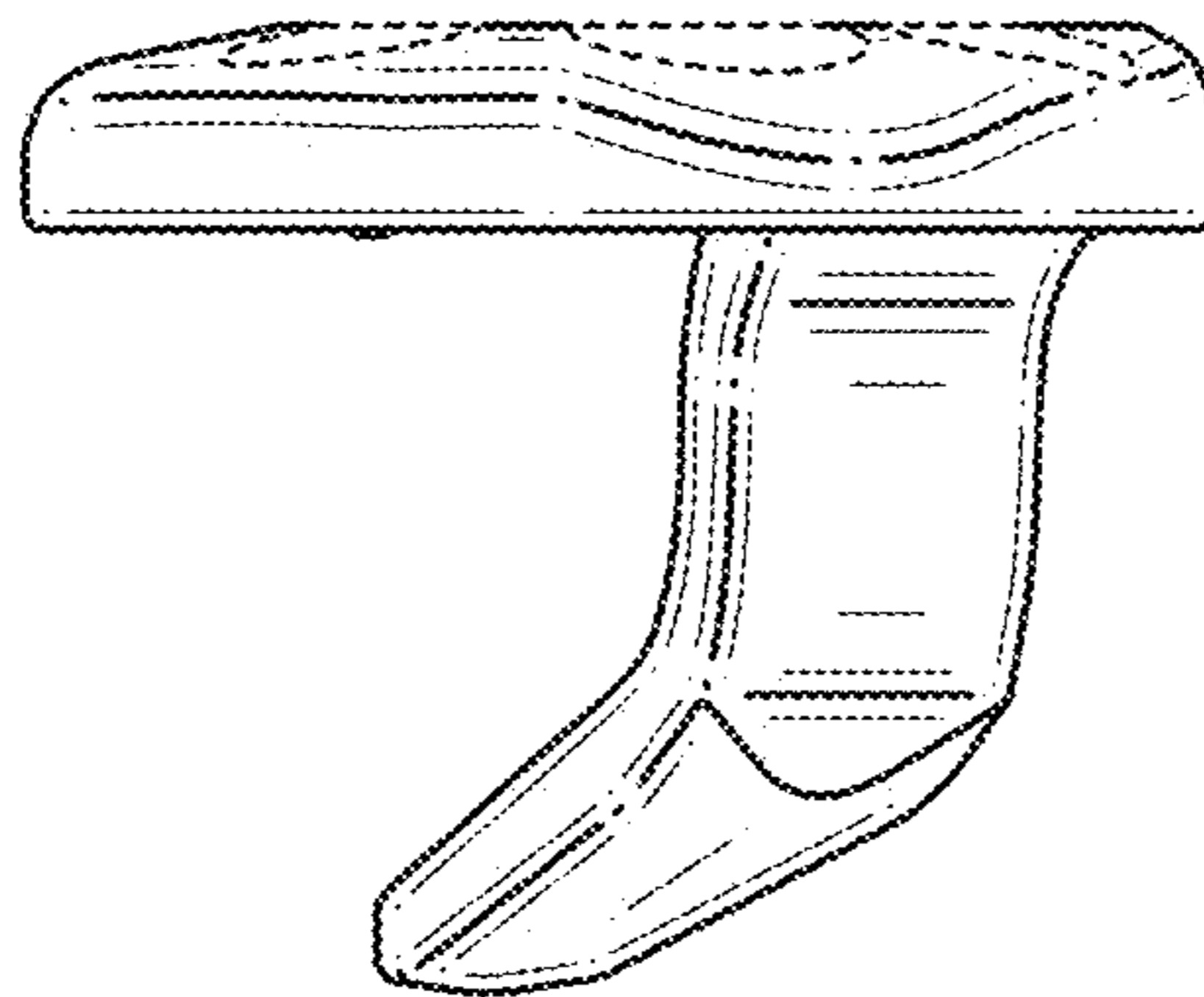


FIG. 7