



US00D432054S

United States Patent [19] Hanamura

[11] Patent Number: Des. 432,054

[45] Date of Patent: ** Oct. 17, 2000

[54] BICYCLE SPROCKET UNIT

[75] Inventor: Junichi Hanamura, Nagagun, Japan

[73] Assignee: Shimano Inc., Osaka, Japan

[**] Term: 14 Years

[21] Appl. No.: 29/083,238

[22] Filed: Feb. 6, 1998

[51] LOC (7) Cl. 12-11

[52] U.S. Cl. D12/123

[58] Field of Search D12/123; D15/5;
188/24.11-24.14; 474/152, 155-158, 160-162,
164

[56] **References Cited**

U.S. PATENT DOCUMENTS

D. 30,038	1/1899	Patee	.....	D12/123
D. 35,193	10/1901	Dodge	.....	D12/123
D. 222,572	11/1971	Shimano et al.	.....	D12/123
D. 242,539	11/1976	Manofsky et al.	.....	D12/123
D. 266,558	10/1982	Breen et al.	.....	D12/123
D. 306,842	3/1990	Beiser	.....	D12/123
D. 366,017	1/1996	Boone	.....	D12/123
D. 368,055	3/1996	Jouret	.....	D12/123
4,439,172	3/1984	Segawa	.....	474/160
4,741,724	5/1988	Wang	.....	474/160
4,988,328	1/1991	Iwasaki et al.	.....	474/160

OTHER PUBLICATIONS

1996 Shimano Bicycle System Components Aug. 1995, pp. 20, 50 and 54.

Schwab Cycles, element A sprocket assembly. May 1997, p. 23.

Primary Examiner—Alan P. Douglas
Assistant Examiner—Linda Brooks
Attorney, Agent, or Firm—Shinju Global IP Counselors, LLP

[57] **CLAIM**

The ornamental design for a bicycle sprocket unit, as shown and described herein.

DESCRIPTION

The drawings show a bicycle sprocket used in accordance with embodiments of my new design.

FIG. 1 is a front elevational view of a bicycle sprocket unit showing my new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view of FIG. 2;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a front elevational view thereof, with several of the sprocket gears removed for clarity of disclosure; and,

FIG. 9 is a top perspective view thereof.

The broken line showing of environment features shown throughout the drawings are for illustrative purposes only and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets

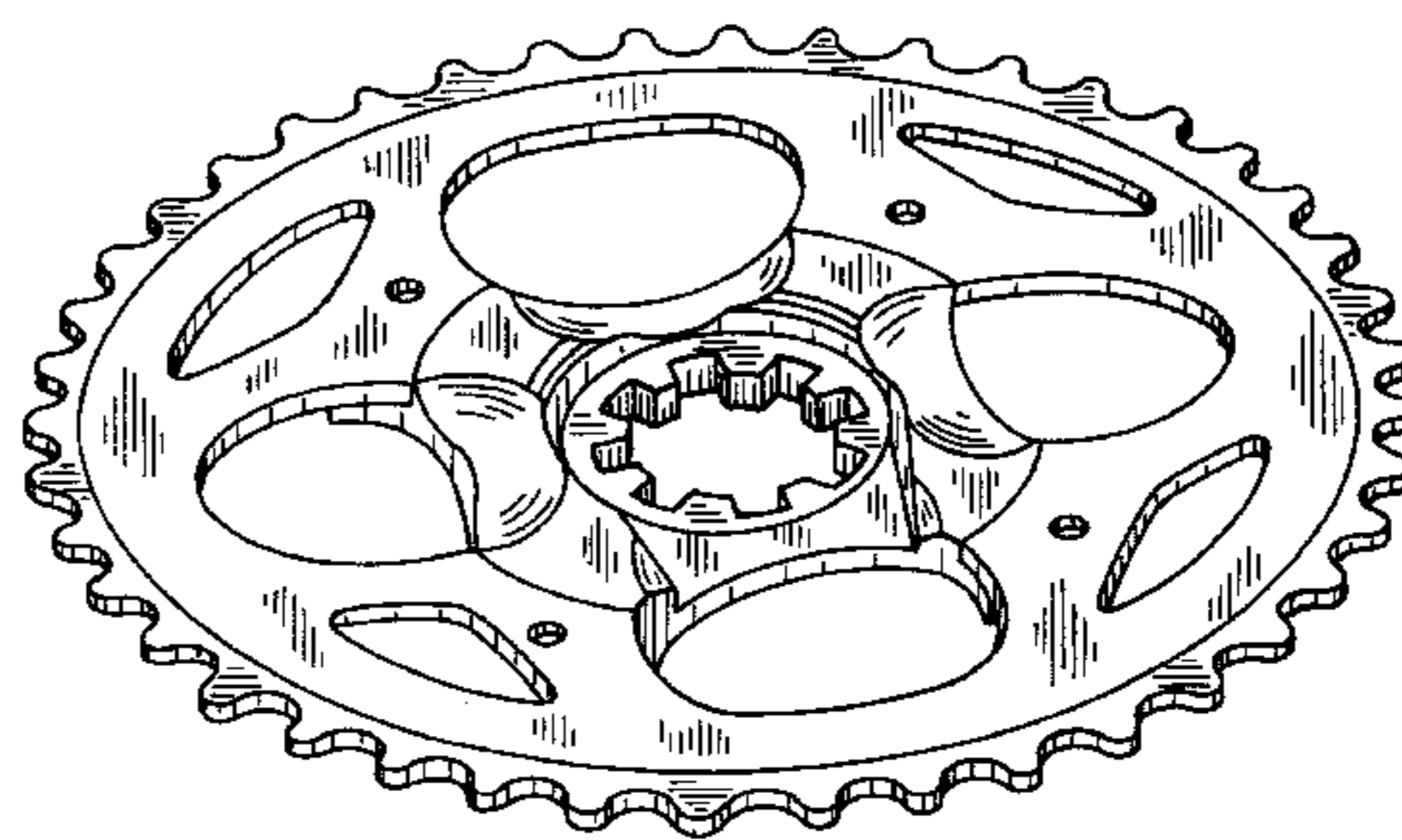
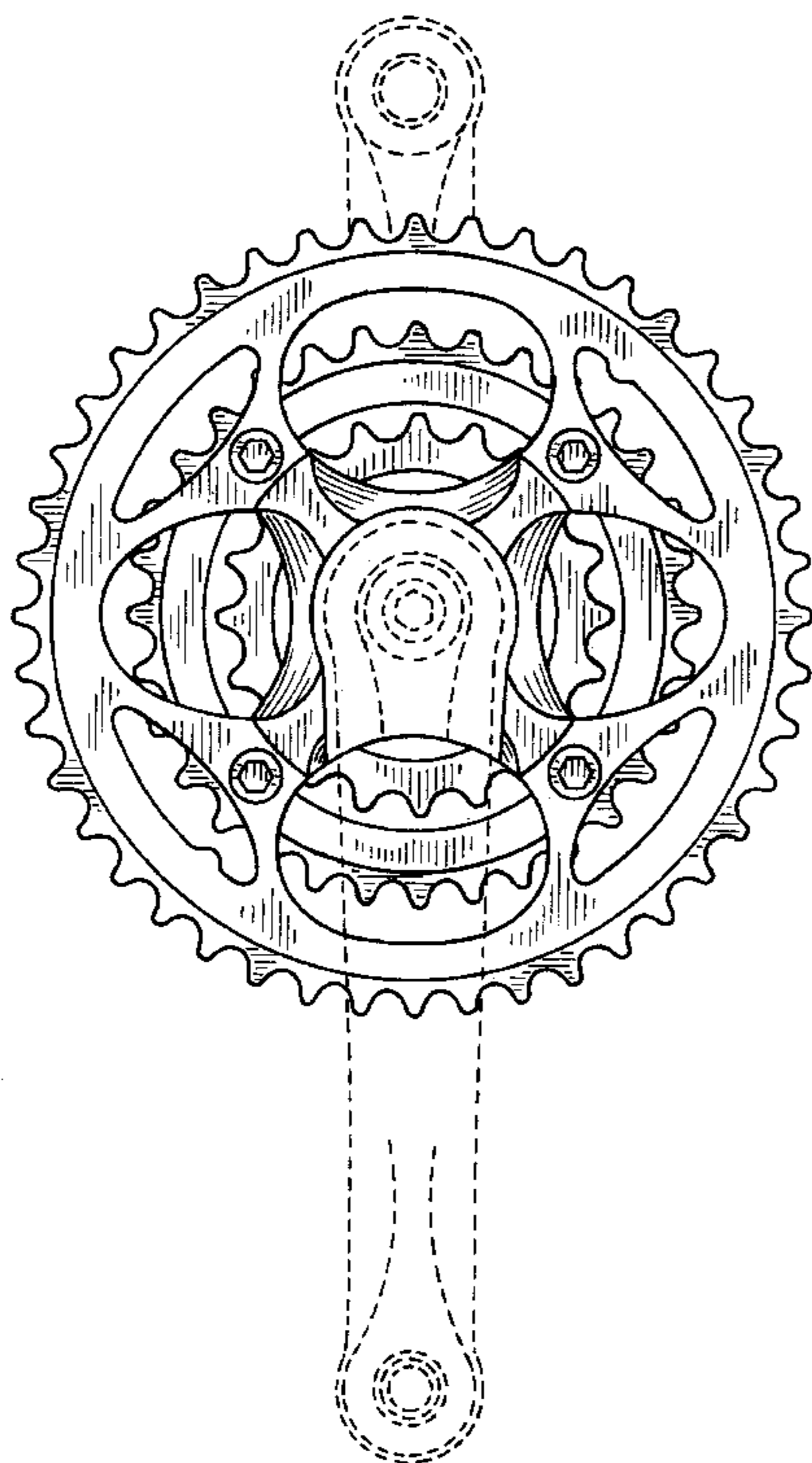


FIG. 1

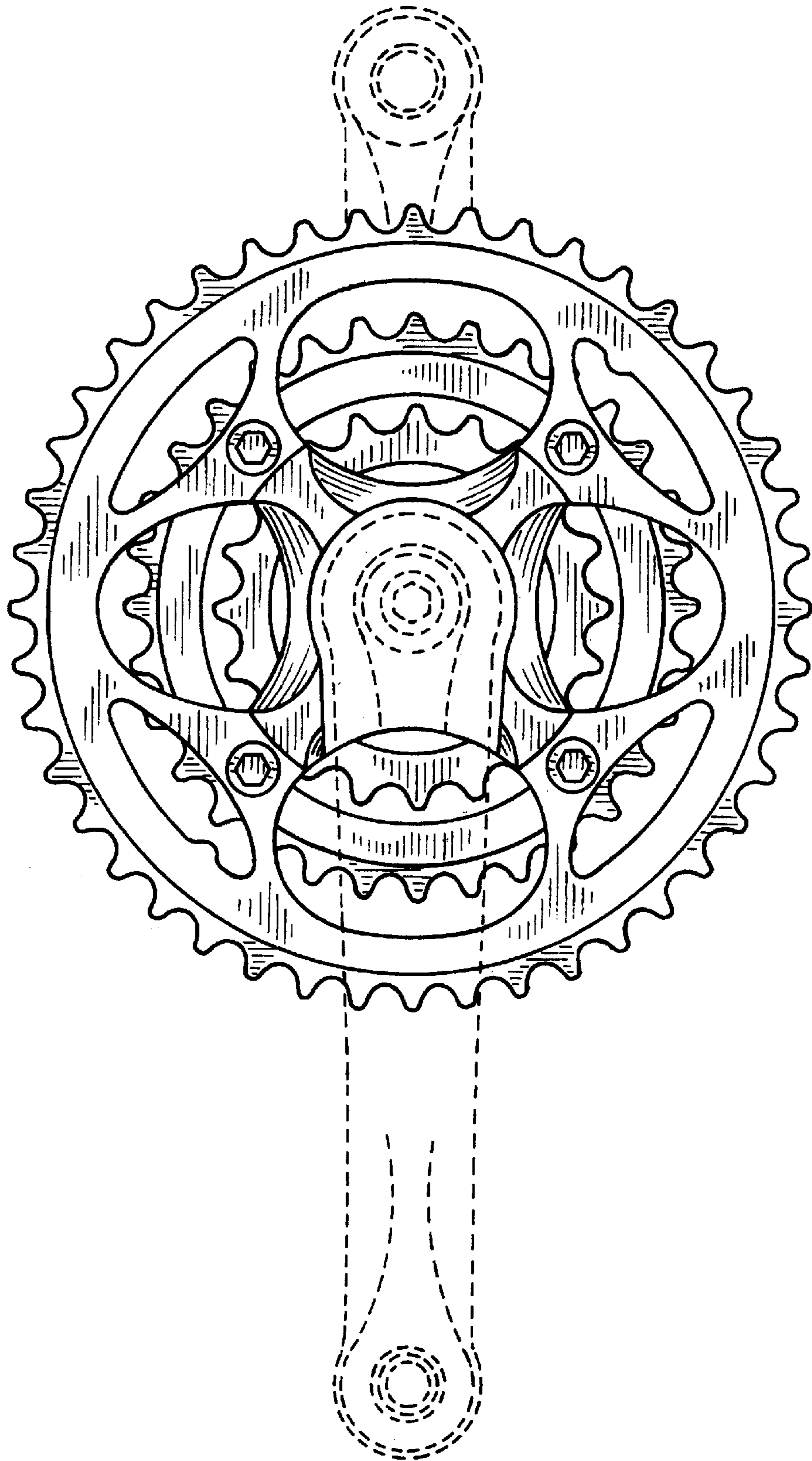


FIG. 2

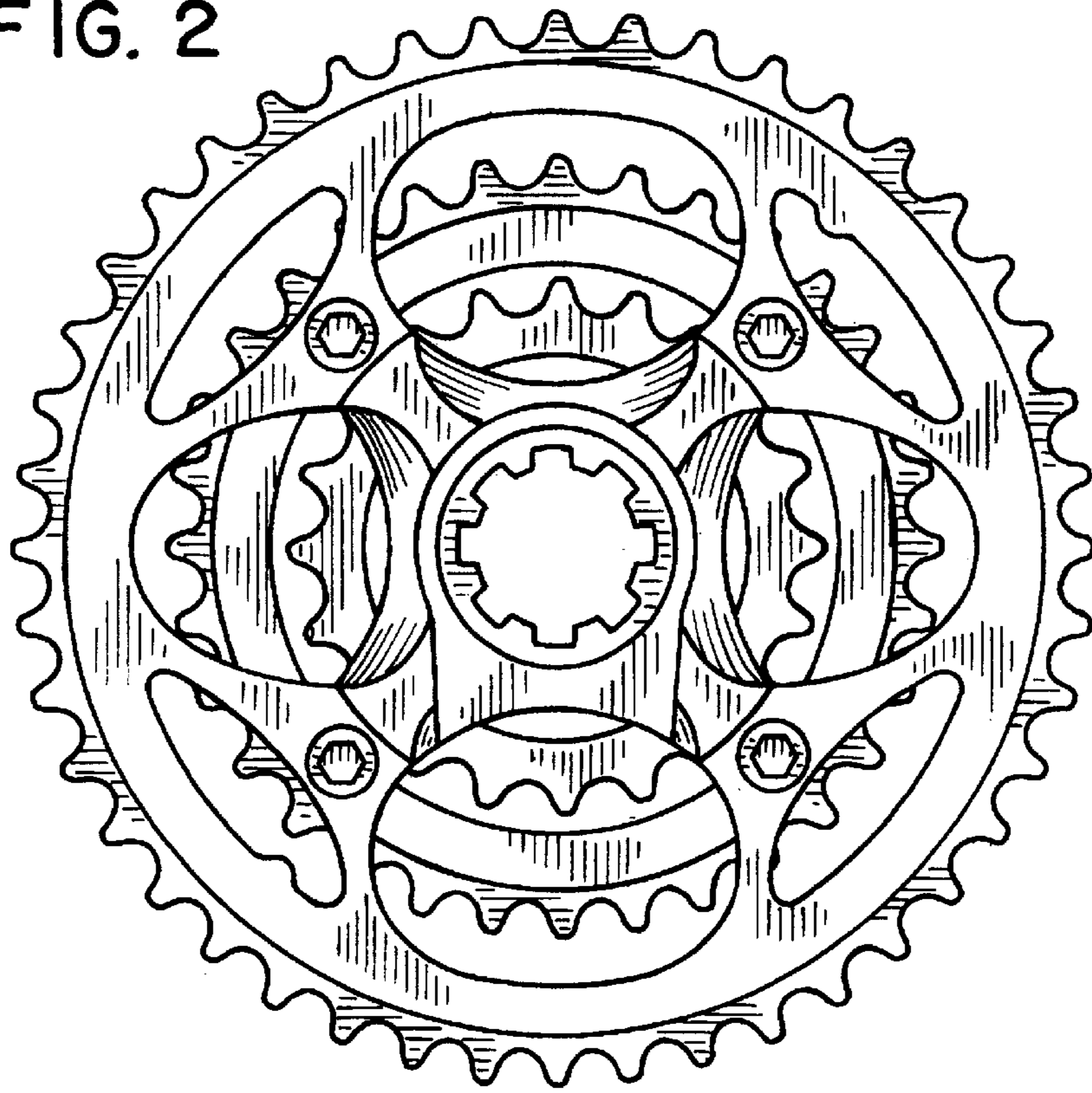


FIG. 3

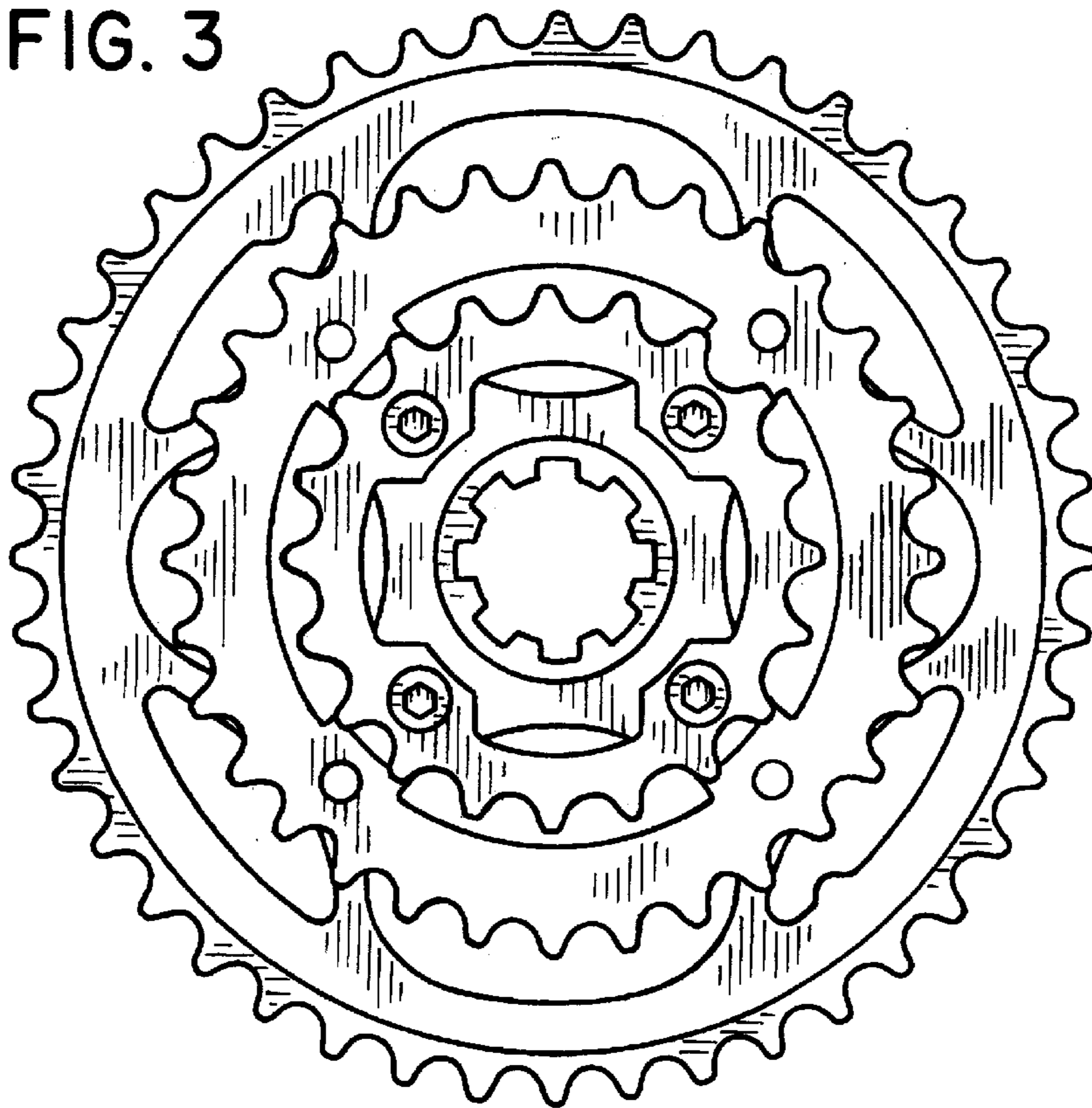


FIG. 4

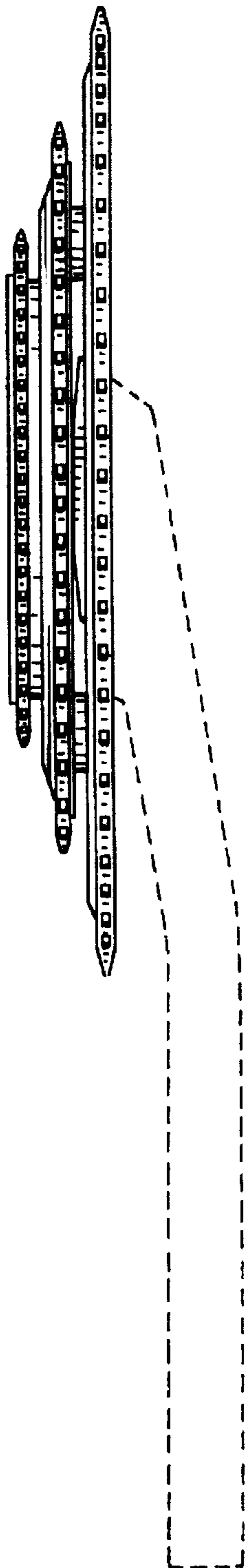


FIG. 5

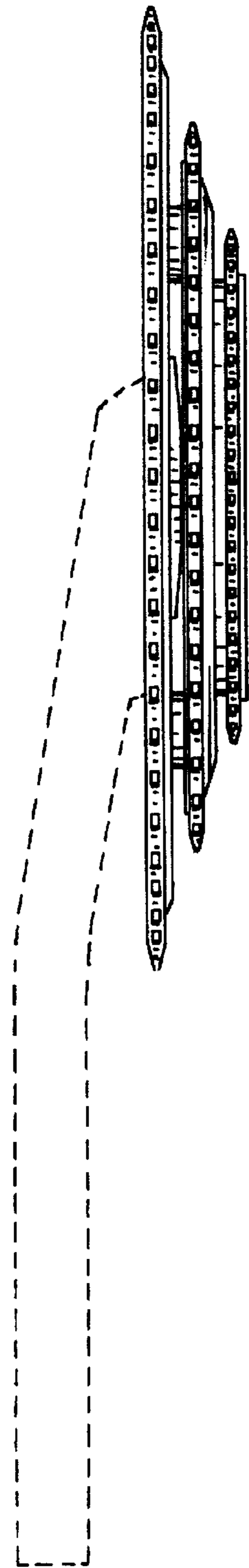


FIG. 6

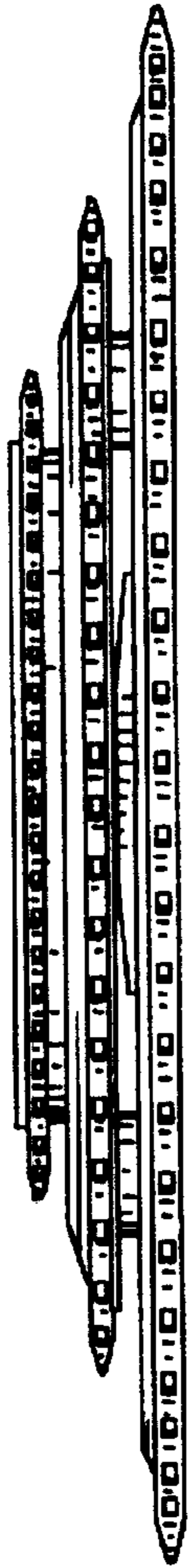


FIG. 7

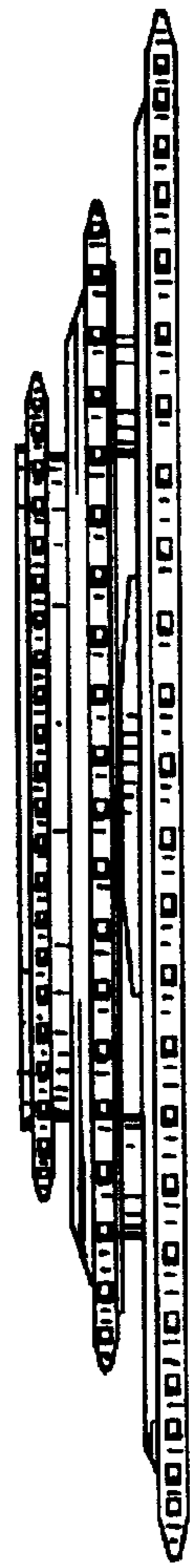


FIG. 8

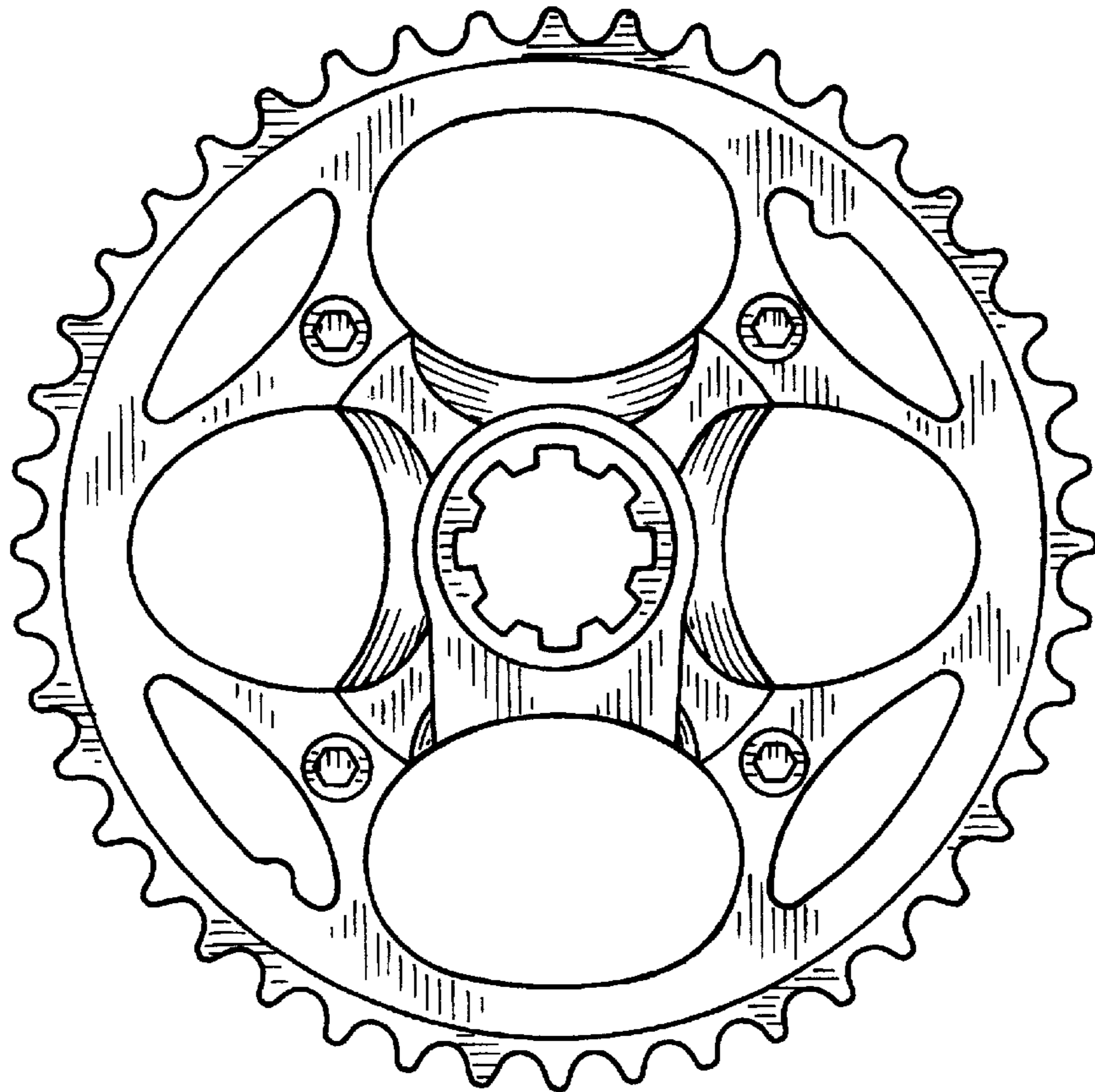


FIG. 9

