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United States Patent [19]

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Arfele et al.

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[54] NINE BLADE DRILL BIT

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[73] Assignee: Dresser Industries, Inc., Houston, Tex.

[**] Term: 14 Years

[21] Appl. No.: 84,544

[22] Filed: Mar. 5, 1998

[51] LOC (6) Cl. 15-09

[52] U.S. Cl. D15/139

[58] Field of Search D15/139; 175/379, 175/385, 393, 408, 421, 420.1, 430-432, 427; 299/29

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Catalogue/Brochure pages: "Diamond Drill Bits." Cristal Profor. Tarbes, France. Admitted prior art.

Catalogue/Brochure pages: "A Strong Line of Natural Diamond and PDC Bits." Smith Diamond. Admitted prior art.

Catalogue/Brochure pages: IADC S946, et al. Smith Diamond. Admitted prior art.

Catalogue/Brochure pages: "Cut Drilling Costs 40 Percent or More with a Strata Bit PDC Bit Tailored to the Formation." Strata Bit. Admitted prior art.

Catalogue/Brochure page: "The Fast Track to the Bottom Line," p. 8. Strata Bit. Admitted prior art.

Catalogue/Brochure pages: "Standard PDC Bits; Standard Ringcutter PDC Bits; Gold Series Bits." Admitted prior art.

Catalogue/Brochure page: "Hycalog Introduces the Hybrid-Fishtail." Hycalog. Admitted prior art.

Catalogue/Brochure page: "Longer Bit Life and Superior Downhole Performance." Hycalog. Admitted Prior Art.

Catalogue/Brochure pages: 6¾ in. DS42H, et al. Hycalog. Admitted prior art.

Catalogue/Brochure pages: "Nortrak Navigation Drilling Systems," pp. 4-5. Nortrak Admitted prior art.

Catalogue/Brochure pages: "VIII. Diamond Drilling & Coring Bits," pp. 47-48. Eastman Christensen. Admitted prior art.

Catalogue/Brochure pages: "Technical Data." Eastman Christensen. Admitted prior art.

Catalogue/Brochure pages: Rock Digger 15, et al. Admitted prior art.

Catalogue/Brochure pages: "Diamond Products." Smith International, pp. 12-13. Admitted prior art.

Catalogue/Brochure page: "PD-7 Rotary and Motor Bit; PD-11 Rotary Bit; PD-11X2 Rotary Bit." Admitted prior art.

(List continued on next page.)

Catalogue/Brochure page: "Diataq DS." Admitted prior art.

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Attorney, Agent, or Firm—Browning Bushman

[57] CLAIM

The ornamental design for a nine blade drill bit, as shown and described.

DESCRIPTION

FIG. 1 is a top plan view of a nine blade drill bit showing our new design;

FIG. 2 is a front perspective view thereof;

FIG. 3 is a front elevational view thereof;

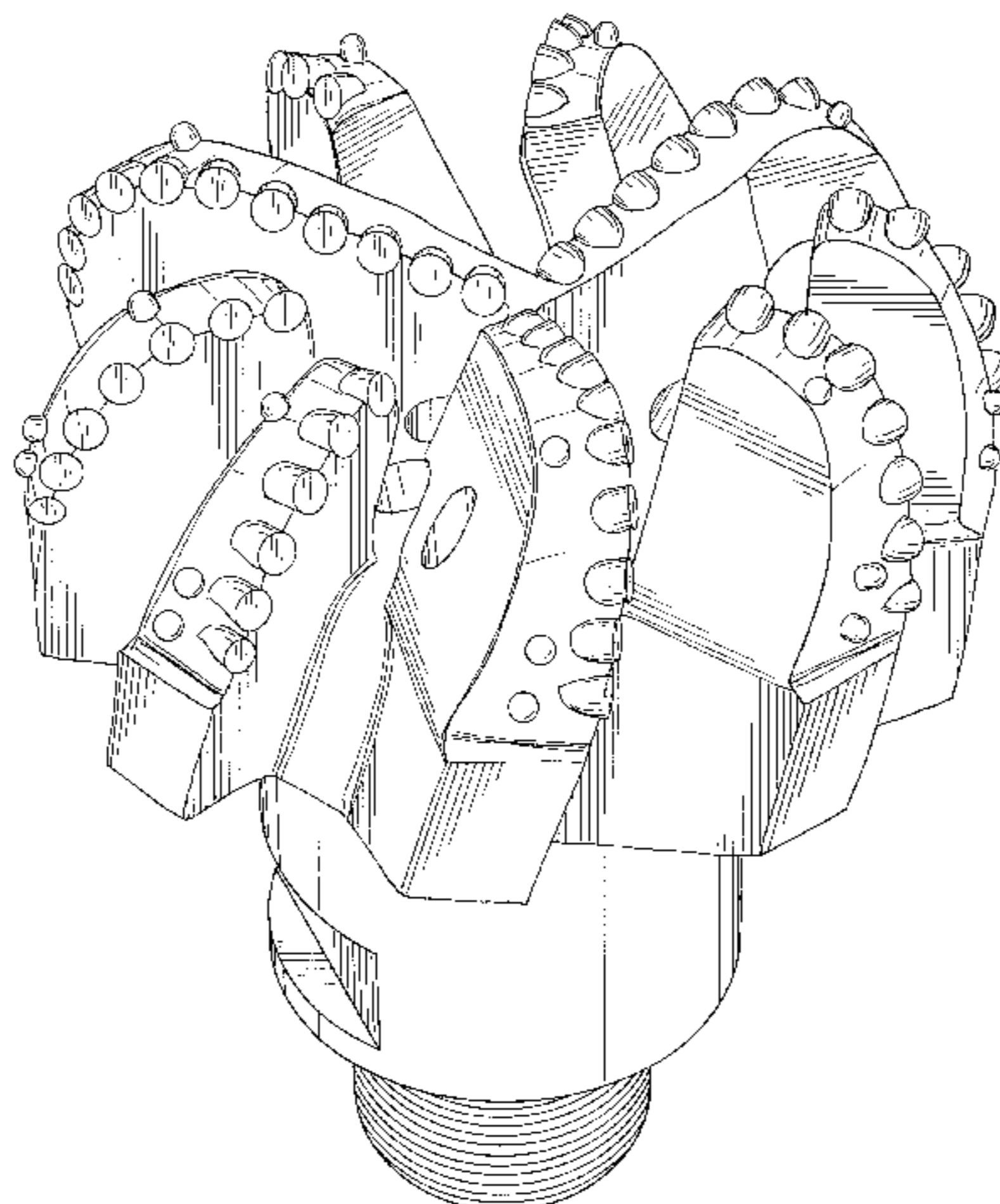
FIG. 4 is a left side elevational view thereof;

FIG. 5 is a rear elevational view thereof;

FIG. 6 is a right side elevational view thereof; and,

FIG. 7 is a bottom plan perspective view thereof.

1 Claim, 7 Drawing Sheets



OTHER PUBLICATIONS

Catalogue/Brochure page: "Strata-Cut Drilling Bits." Admitted prior art.

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Catalogue/Brochure pages: "Diamond Compact Bits (R-Series)." Norton Christensen Drilling Products. Admitted prior art.

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Catalogue/Brochure page: "Smith Diamond's New S-95: The Right Direction in Soft Formations." Smith International. Admitted prior art.

Catalogue/Brochure pages: "Drilling Bits." Petroleum Diamond Products. Admitted prior art.

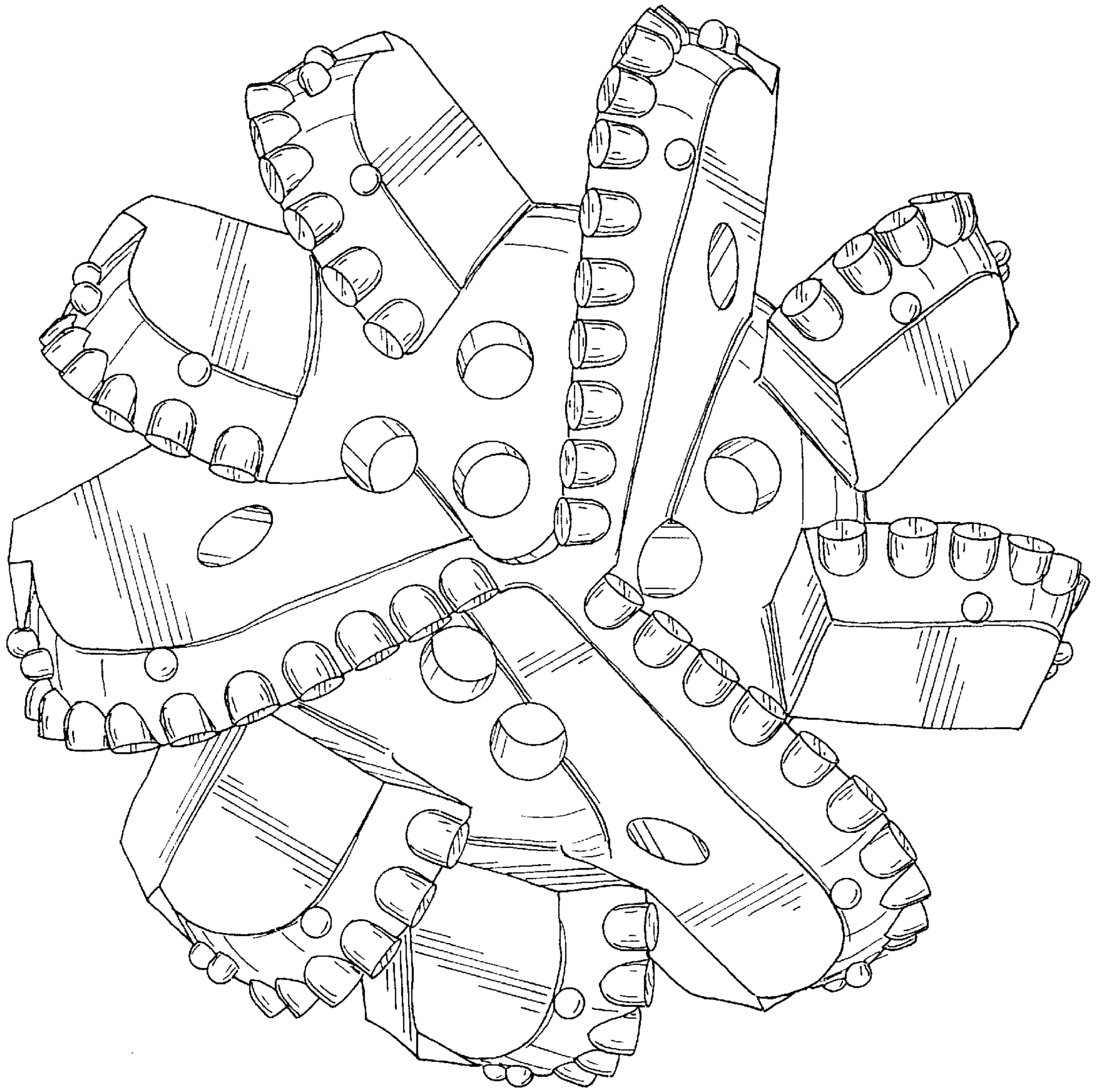


FIG. 1

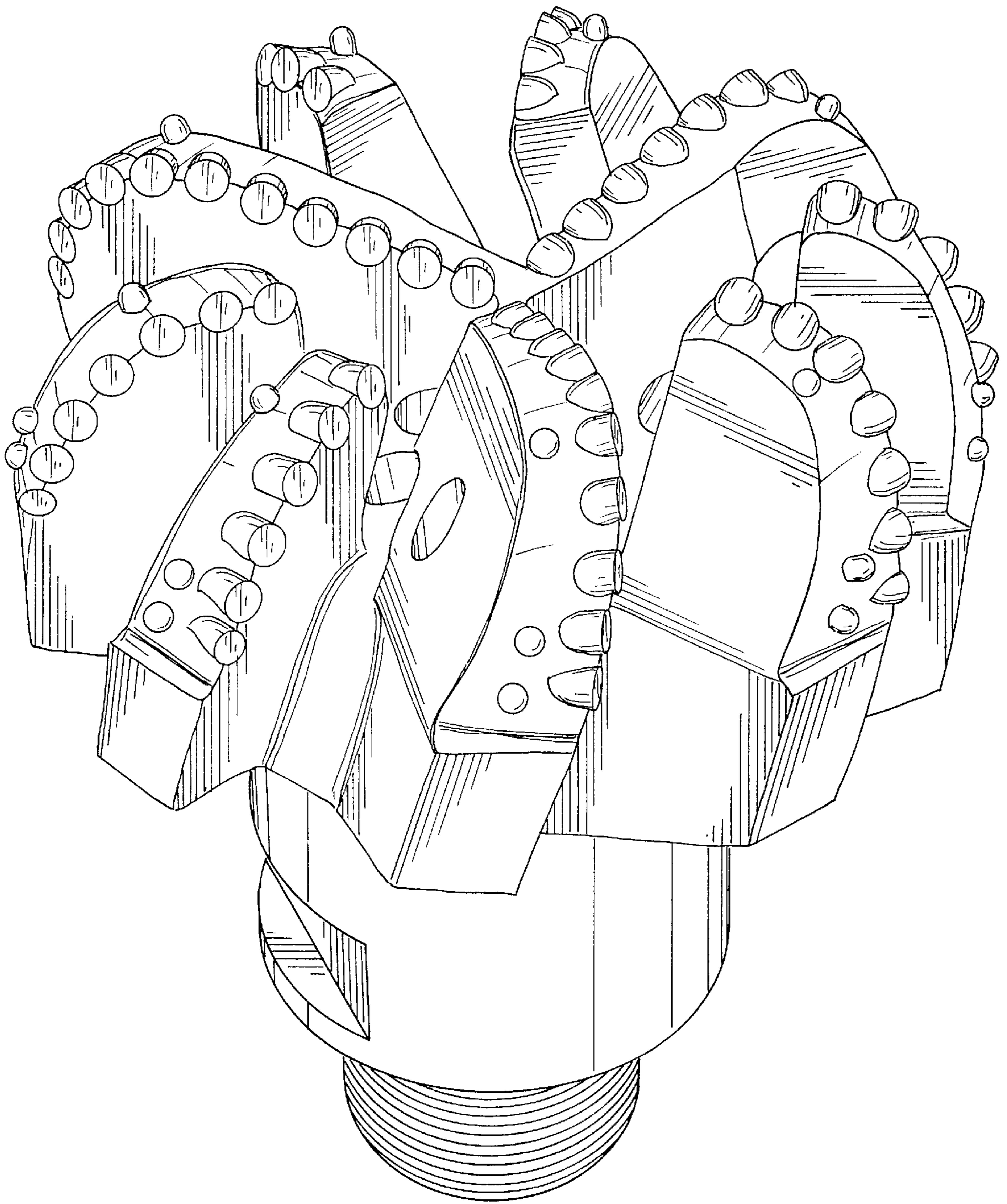


FIG. 2

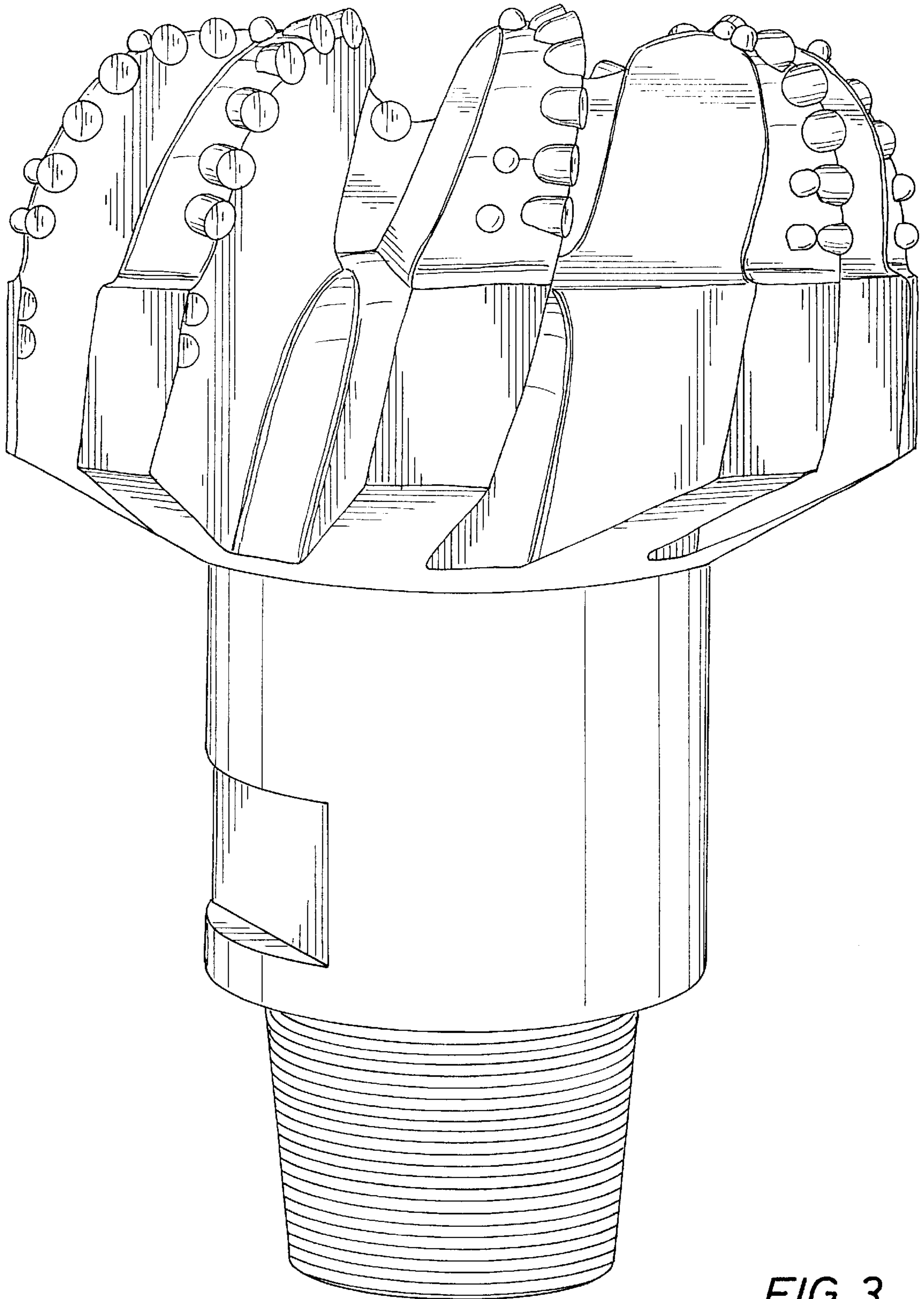


FIG. 3

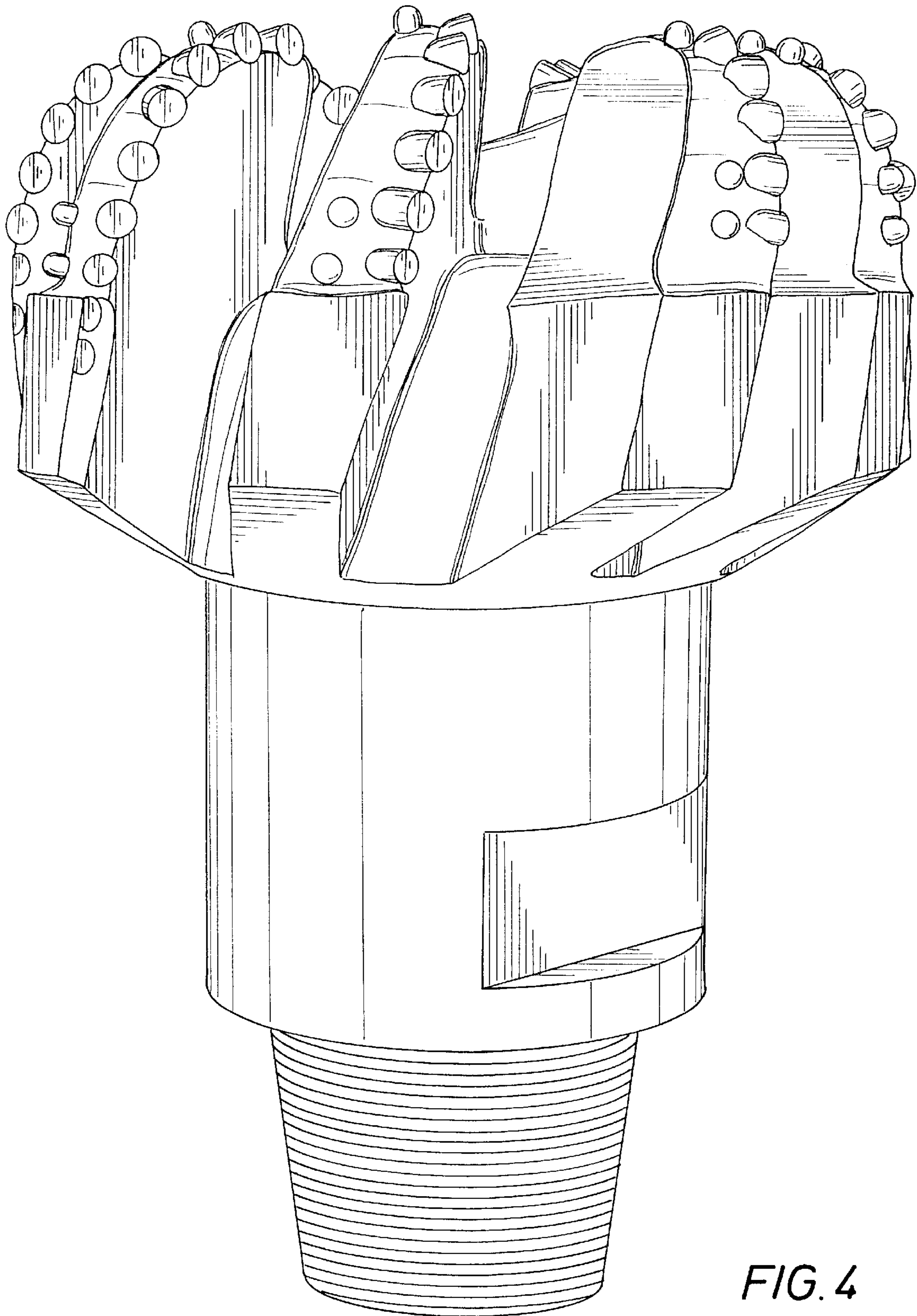


FIG. 4

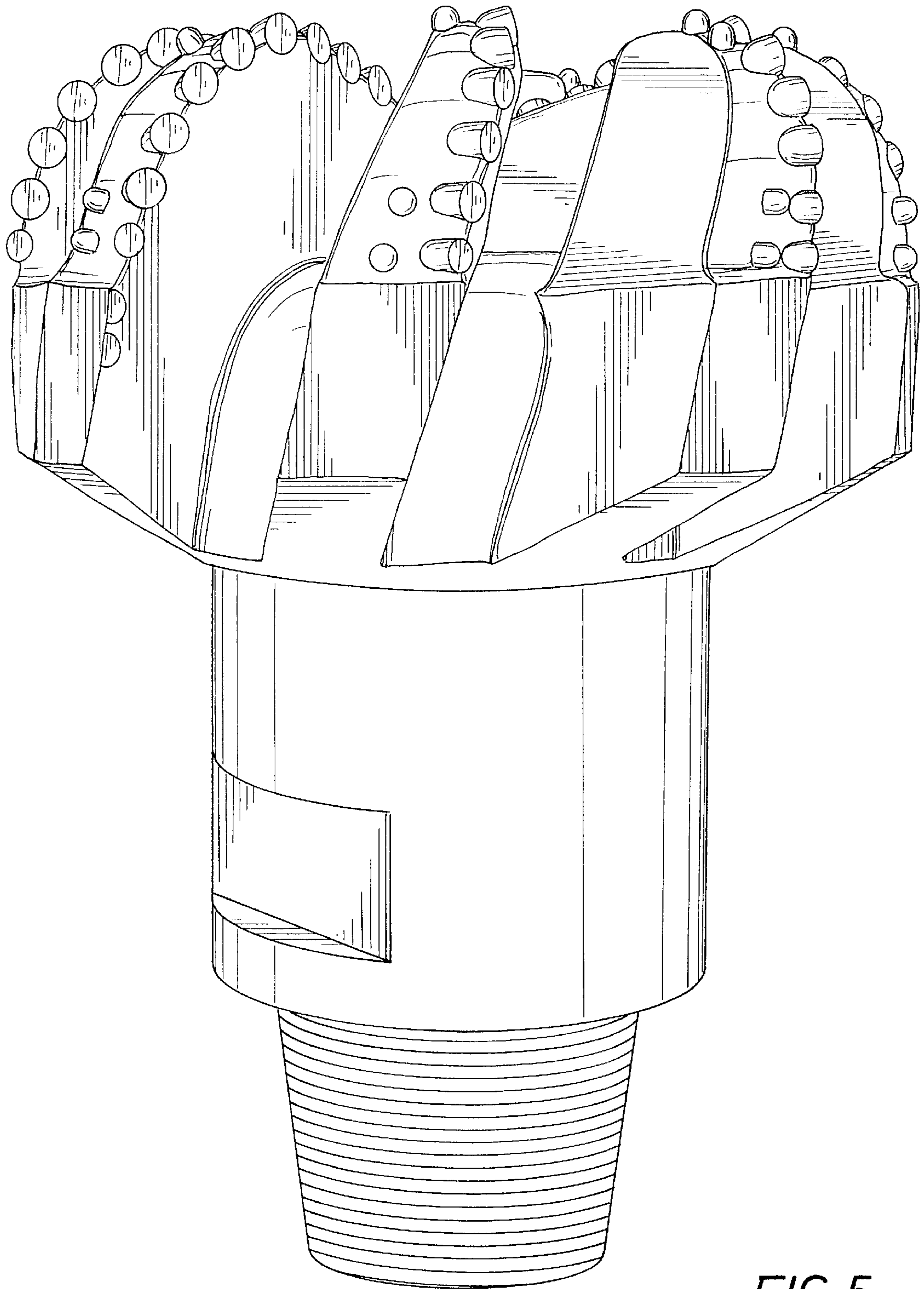


FIG. 5

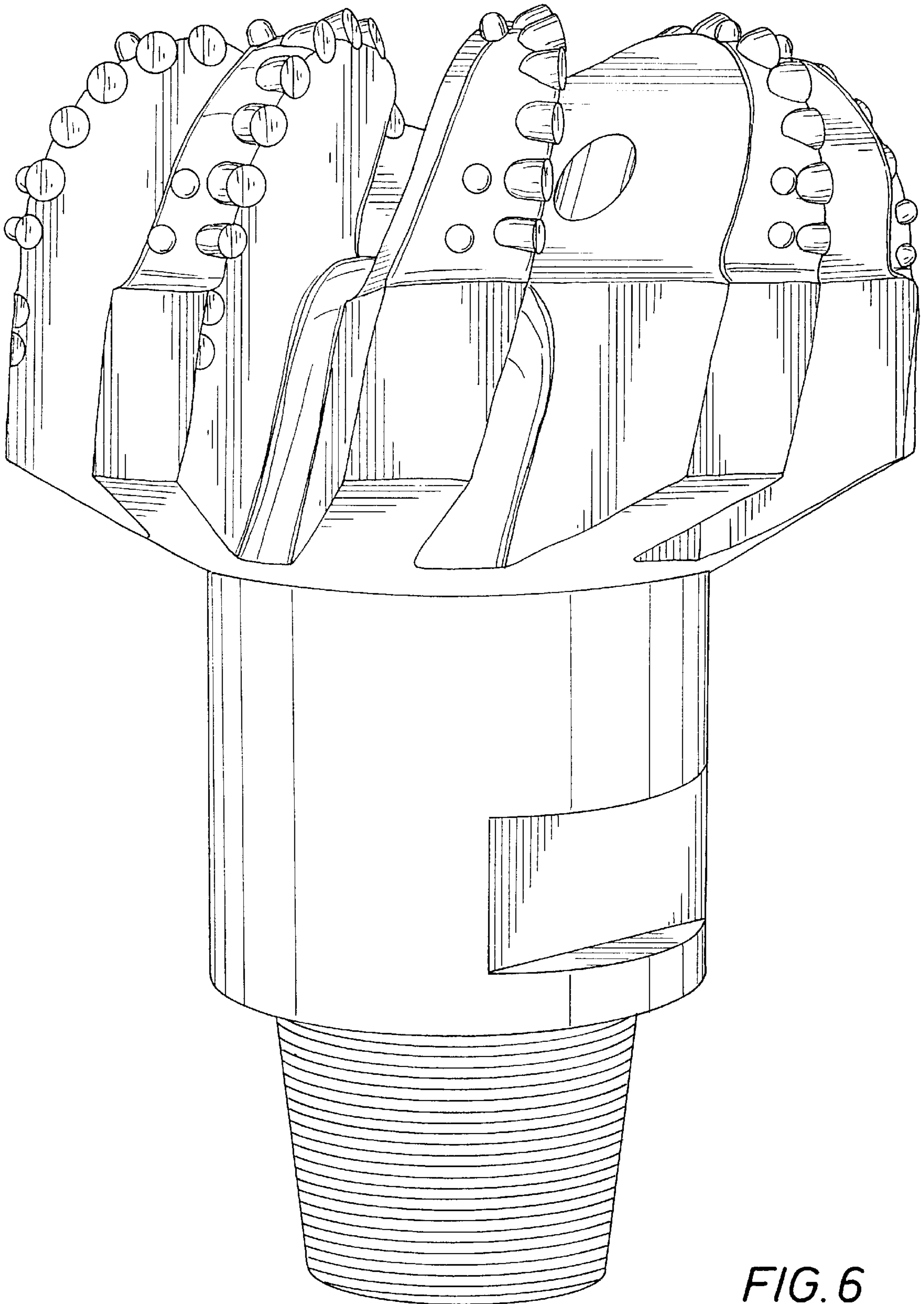


FIG. 6

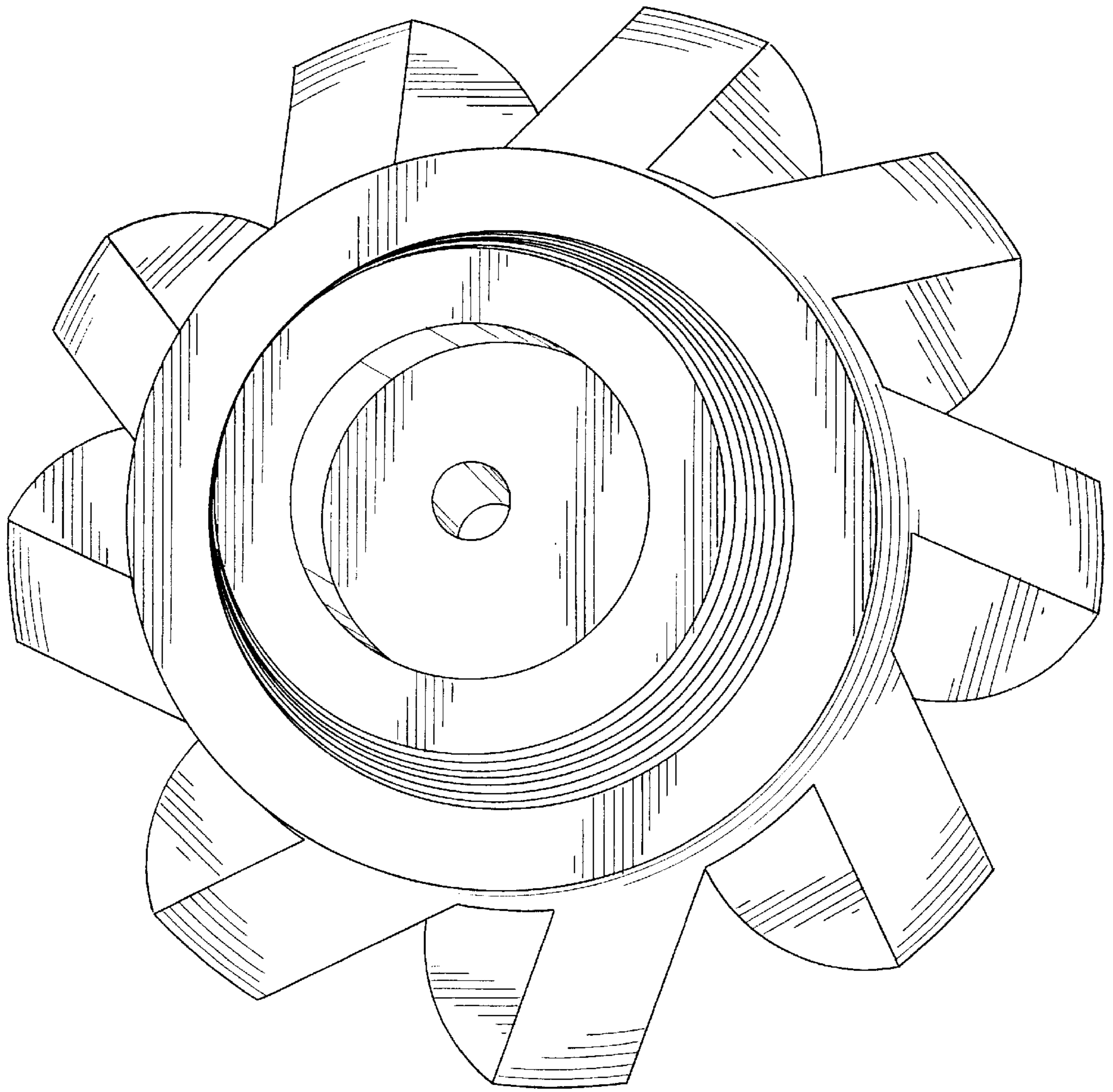


FIG. 7