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(12) **United States Design Patent** (10) **Patent No.:** **US D863,919 S**
Spatz et al. (45) **Date of Patent:** **** Oct. 22, 2019**

- (54) **DIRECTIONAL DRILLING ASSEMBLY**
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- (**) Term: **15 Years**

(Continued)

- (21) Appl. No.: **29/616,773**

Primary Examiner — Darlington Ly

- (22) Filed: **Sep. 8, 2017**

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- (51) **LOC (12) Cl.** **08-05**

- (52) **U.S. Cl.** **D8/70**
USPC

- (58) **Field of Classification Search**
USPC D8/70, 82, 85-87, 105; D15/139
CPC B25B 13/06; B25B 13/5091; B25B 15/00;
B25B 15/001; B25B 15/002; B25B 15/004;
B25B 15/005; B25B 15/008; B25B 15/02;
B25B 15/04; B25B 17/00; B25B 21/007;
B25B 23/00; B25B 23/0035; B25B 23/005;
B25B 23/12; B25B 23/1405; B25B 27/18; B25B 31/12;
B25B 51/08; B25B 51/108; B25B 2251/66; B23P 15/00

See application file for complete search history.

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(57) **CLAIM**

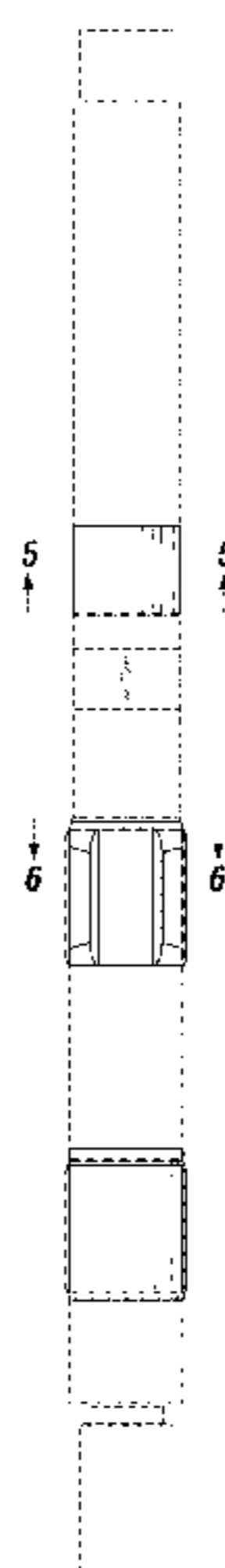
The ornamental design for a directional drilling assembly, as shown and described.

DESCRIPTION

FIG. 1 is a front elevation view of a directional drilling assembly showing our new design;
 FIG. 2 is a left side elevation view thereof;
 FIG. 3 is a right side elevation view thereof;
 FIG. 4 is a rear elevation view thereof;
 FIG. 5 is a cross-sectional view thereof taken along line 5-5 in FIG. 1; and,
 FIG. 6 is a cross-sectional view thereof taken along line 6-6 in FIG. 1.

The broken lines in the drawings illustrate portions of the directional drilling assembly that form no part of the claimed design.

1 Claim, 1 Drawing Sheet



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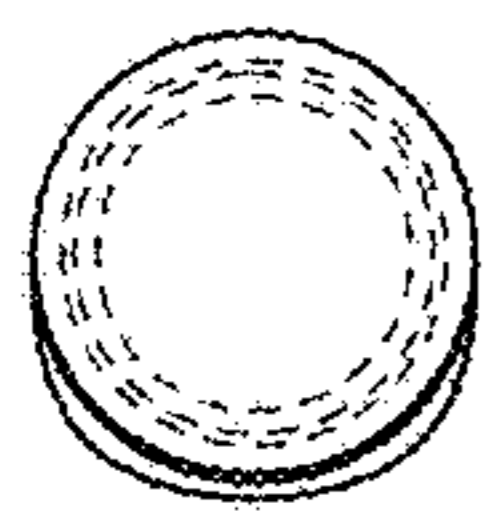


FIG. 5

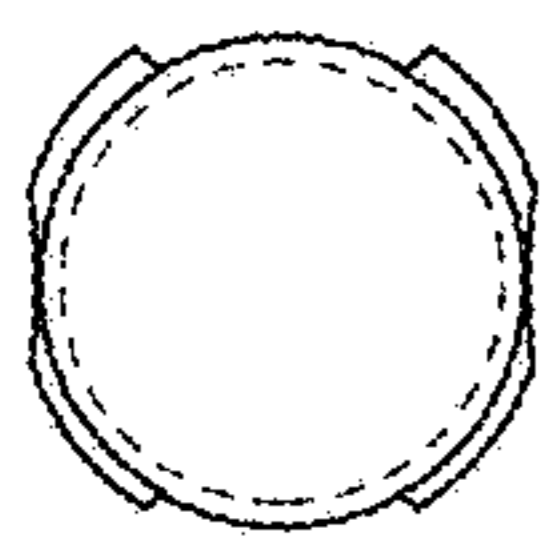


FIG. 6

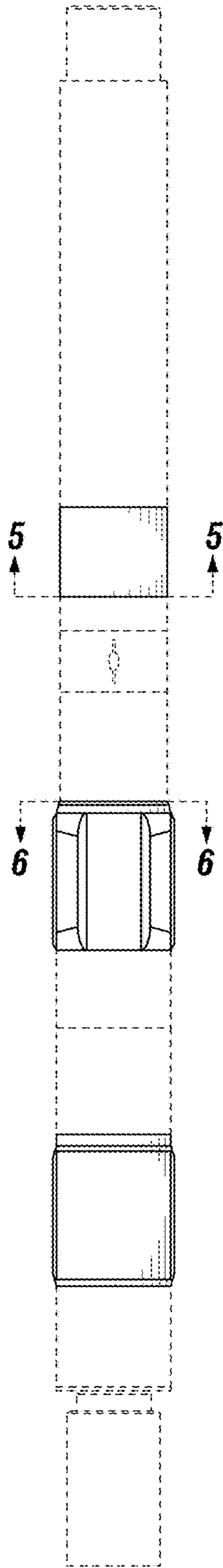


FIG. 1

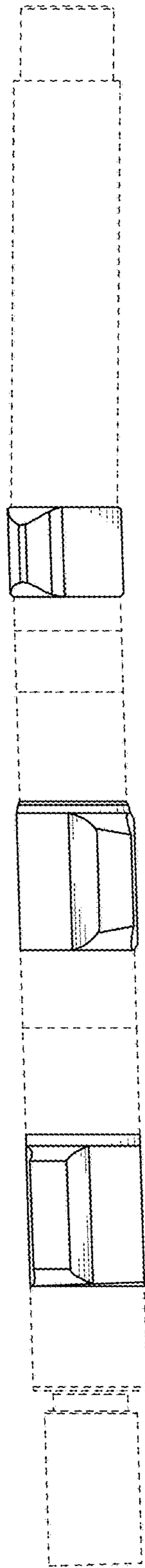


FIG. 2

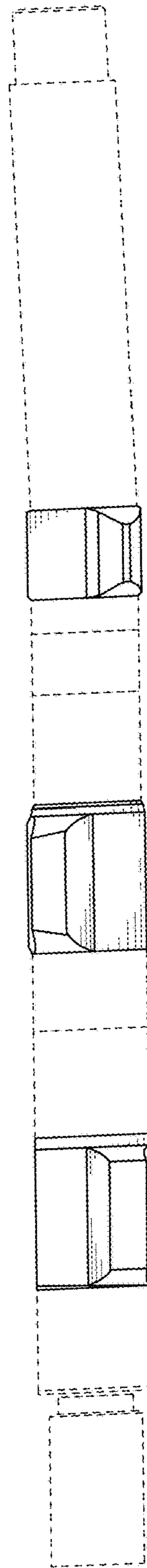


FIG. 3

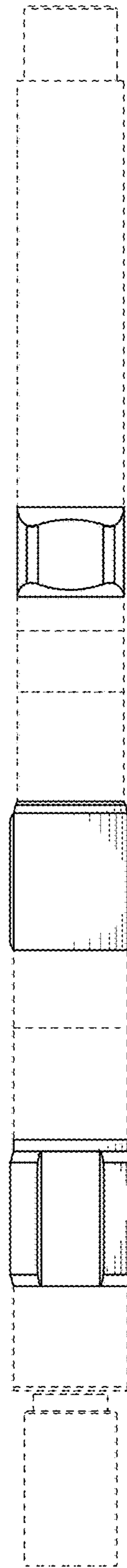


FIG. 4