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

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- (54) **M4A1 HELICALLY FLUTED GUN BARREL**
- (71) Applicant: **U.S. Government as Represented by the Secretary of the Army**, Picatinny Arsenal, Dover, NJ (US)
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- (73) Assignee: **The United States of America as Represented by the Secretary of the Army**, Washington, DC (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/672,642**
- (22) Filed: **Dec. 7, 2018**
- (51) **LOC (12) Cl.** ..... **22-01**
- (52) **U.S. Cl.**  
USPC ..... **D22/108**
- (58) **Field of Classification Search**  
USPC ..... D22/100, 103, 108, 109, 110, 111, 113, D22/115, 116, 199; D21/567, 573  
CPC ..... F41A 23/08; F41A 23/10; F41A 21/16; F41A 21/22; F41C 23/00; F41C 7/00; F41J 1/10; F41G 1/30  
See application file for complete search history.

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(57) **CLAIM**

The ornamental design for a M4A1 helically fluted gun barrel, as shown and described.

**DESCRIPTION**

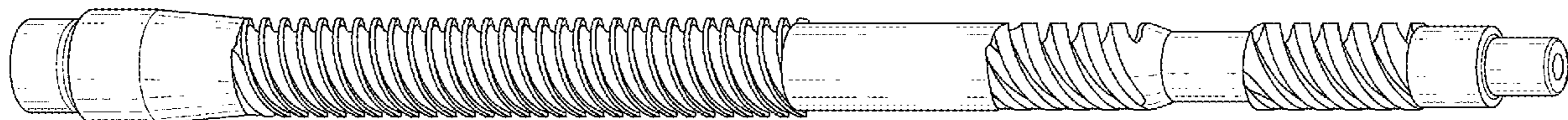
FIG. 1 is a muzzle end isometric view of the M4A1 helically fluted gun barrel.

FIG. 2 is a plan view of the M4A1 helically fluted gun barrel (top and front are identical to this plan view, whereas bottom and back are a mirror image of this plan view); and,

FIG. 3 is a right side elevation view (muzzle end) of the M4A1 helically fluted gun barrel.

Views are orthogonal projections unless otherwise noted. The various views are not necessarily to scale in order to better illustrate the design.

**1 Claim, 3 Drawing Sheets**



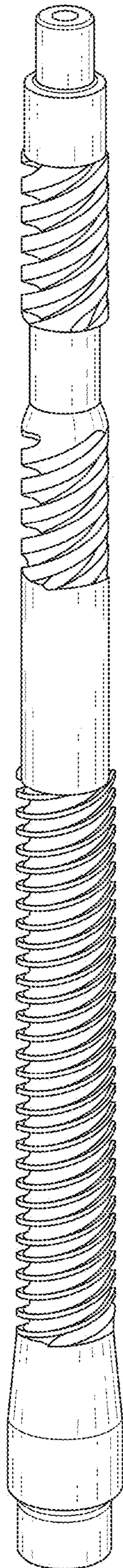


FIG. 1

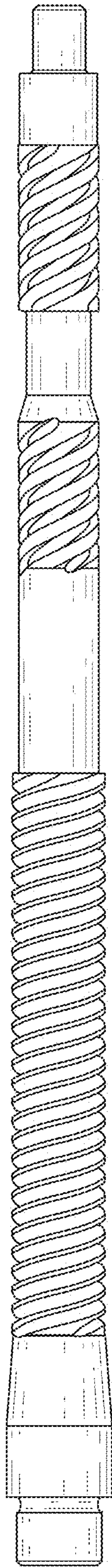


FIG. 2

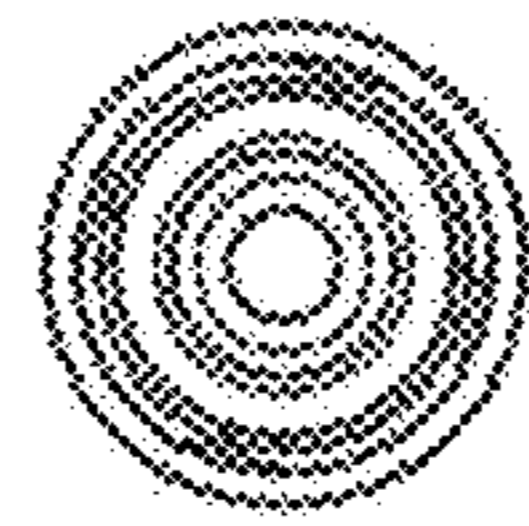


FIG. 3