



US00D457899S

(12) **United States Design Patent** (10) **Patent No.:** **US D457,899 S**
Nam et al. (45) **Date of Patent:** **** May 28, 2002**

(54) **MANDREL HAVING HOOKS FOR FORMING
A COIL-WOUND ARTICLE FOR ELECTRIC
MOTOR, GENERATOR AND ALTERNATOR**

6,200,280 B1 * 3/2001 Brenneman et al. 601/41
6,293,958 B1 * 9/2001 Berry et al. 606/191

* cited by examiner

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(**) Term: **14 Years**

(57) **CLAIM**

(21) Appl. No.: **29/145,047**

The ornamental design for a mandrel having hooks for
forming a coil-wound article for electric motor, generator
and alternator, as shown and described.

(22) Filed: **Jul. 16, 2001**

DESCRIPTION

(51) **LOC (7) Cl.** **15-09**

(52) **U.S. Cl.** **D15/138**

(58) **Field of Search** D15/138, 140–142,
D15/199; 601/141; 606/191, 192, 185;
604/264

FIG. 1 is an isometric view of a first embodiment;
FIG. 2 is a front elevational view and a top plan view of the
embodiment shown in FIG. 1, the opposite sides being
mirror images, respectively; and,
FIG. 3 is a left side plan view of the embodiment shown in
FIG. 1; the opposite side being a mirror image.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D336,094 S * 6/1993 Dejanon D15/138

1 Claim, 2 Drawing Sheets

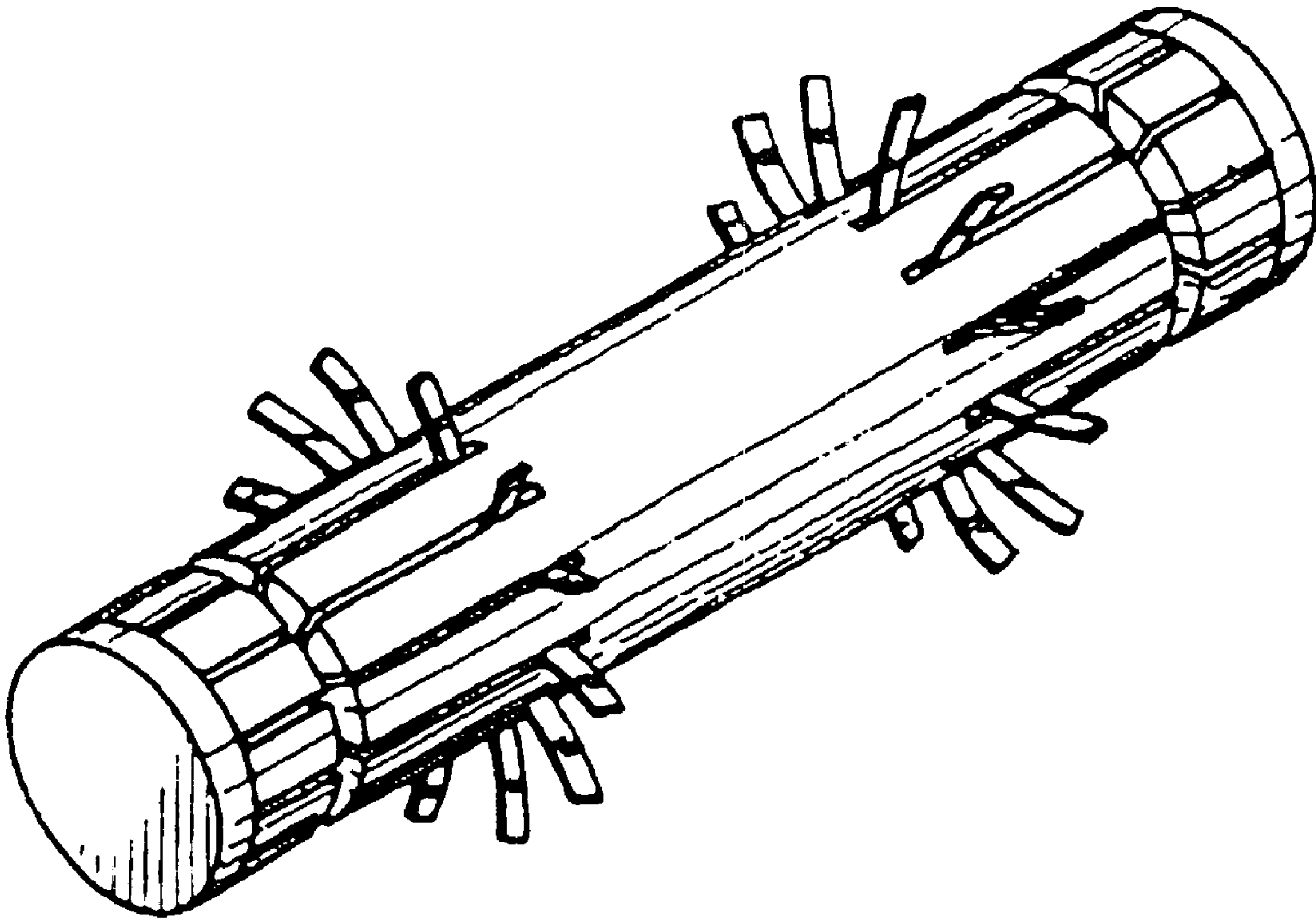


FIG. 1

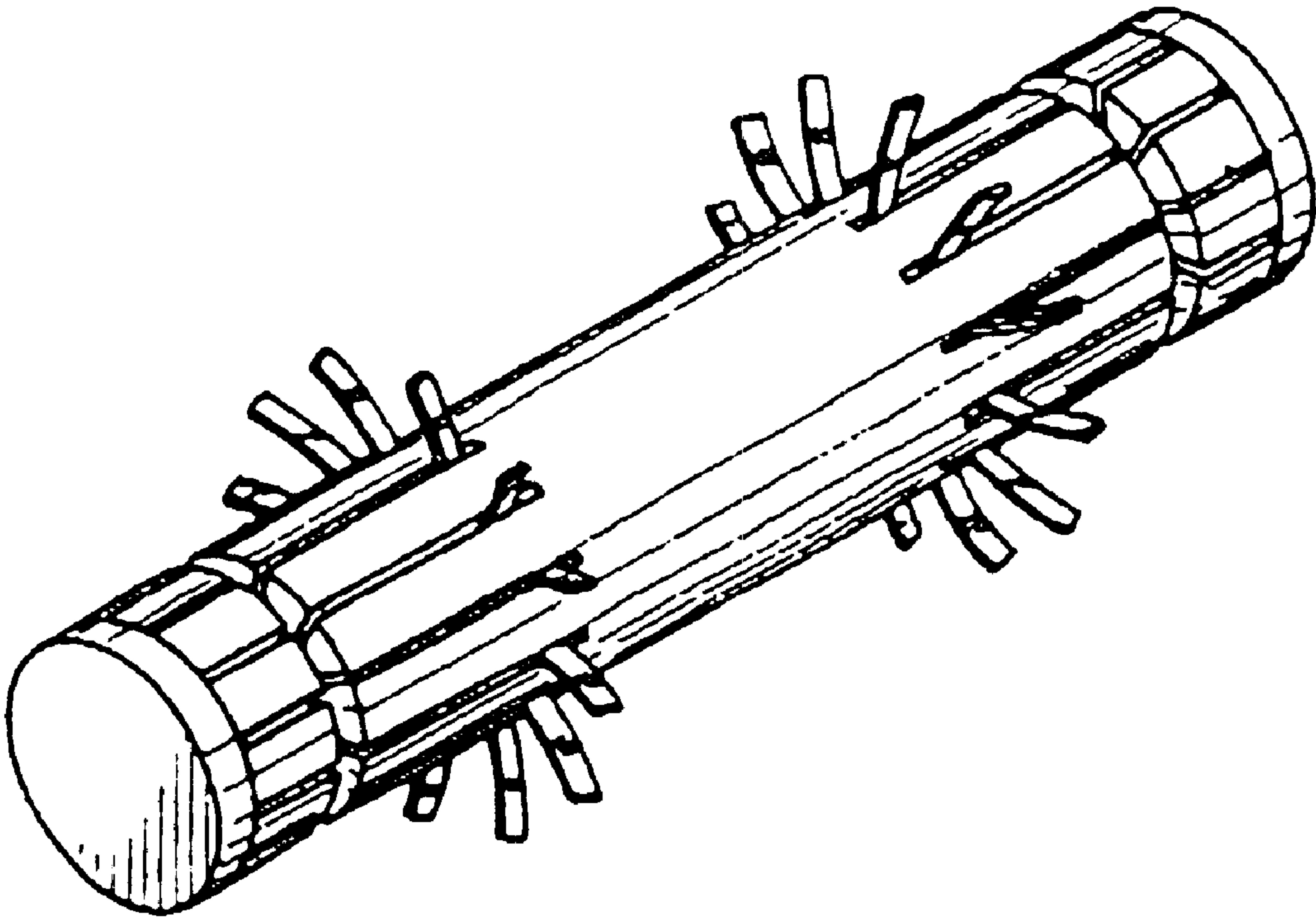


FIG. 2

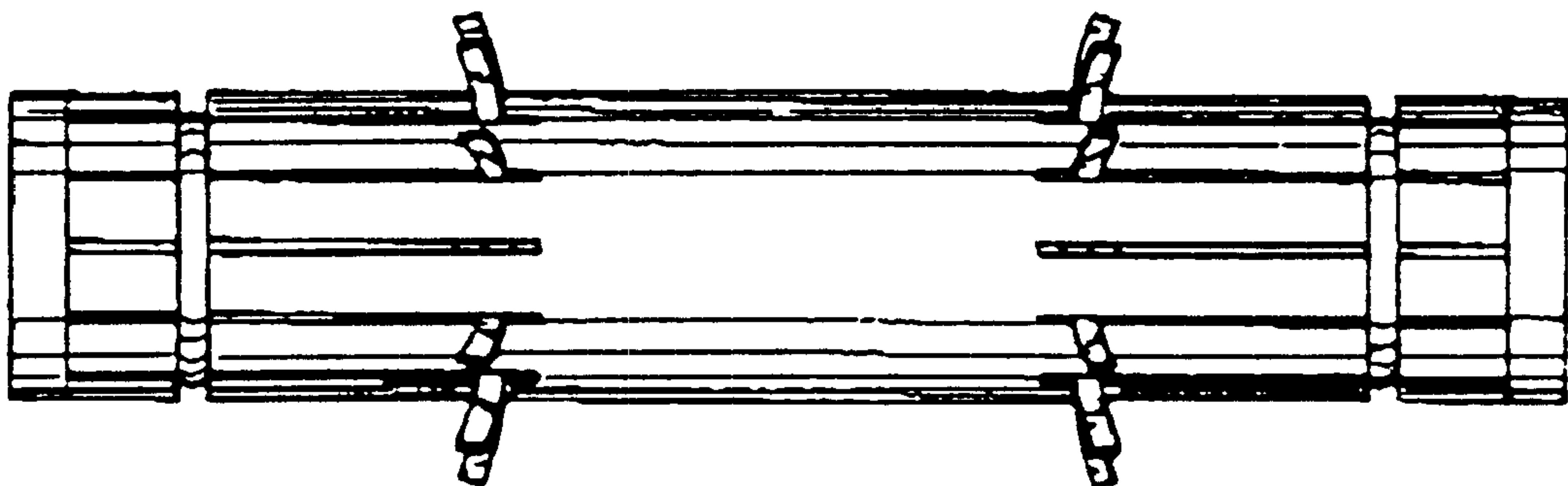


FIG. 3

