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(12) **United States Design Patent** (10) **Patent No.:** **US D867,591 S**  
**Adams** (45) **Date of Patent:** **\*\* Nov. 19, 2019**

(54) **SINGLE STRAND MONO-DIRECTIONAL BARB LOOP SUTURE WITH SINGLE COATING SHIELD**

Adhere Less to Barbed Monofilament Than Braided Sutures in a Contaminated Wound Model, Feb. 2013; 471(2): 665-671.

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(71) Applicant: **Jason P. Adams**, Farmington, NM (US)

*Primary Examiner* — Cathron C Brooks

(72) Inventor: **Jason P. Adams**, Farmington, NM (US)

*Assistant Examiner* — Samantha Q Lawrence

(\*\*) Term: **15 Years**

(74) *Attorney, Agent, or Firm* — Pate Baird, PLLC

(21) Appl. No.: **29/623,760**

(57) **CLAIM**

The ornamental design for a single strand mono-directional barb loop suture with single coating shield, as shown and described.

(22) Filed: **Oct. 26, 2017**

**DESCRIPTION**

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 15/096,496, filed on Apr. 12, 2016, now abandoned.

(51) **LOC (12) Cl.** ..... **24-04**

(52) **U.S. Cl.**  
USPC ..... **D24/145**

(58) **Field of Classification Search**  
USPC ..... D24/145, 146, 147, 148, 133, 155, 169

(Continued)

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FIG. 1 is a side elevation view of a single strand mono-directional barb loop suture with single coating shield in accordance with the invention, showing single strand mono-directional barb loop suture with single coating shield in first condition of use wherein the strand is shown in a coated condition, with half of the strand in a coated condition and the other half of the strand in a non-coated condition;

FIG. 2 is an enlarged, side elevation of a portion of the single strand mono-directional barb loop suture with single coating shield taken from FIG. 1;

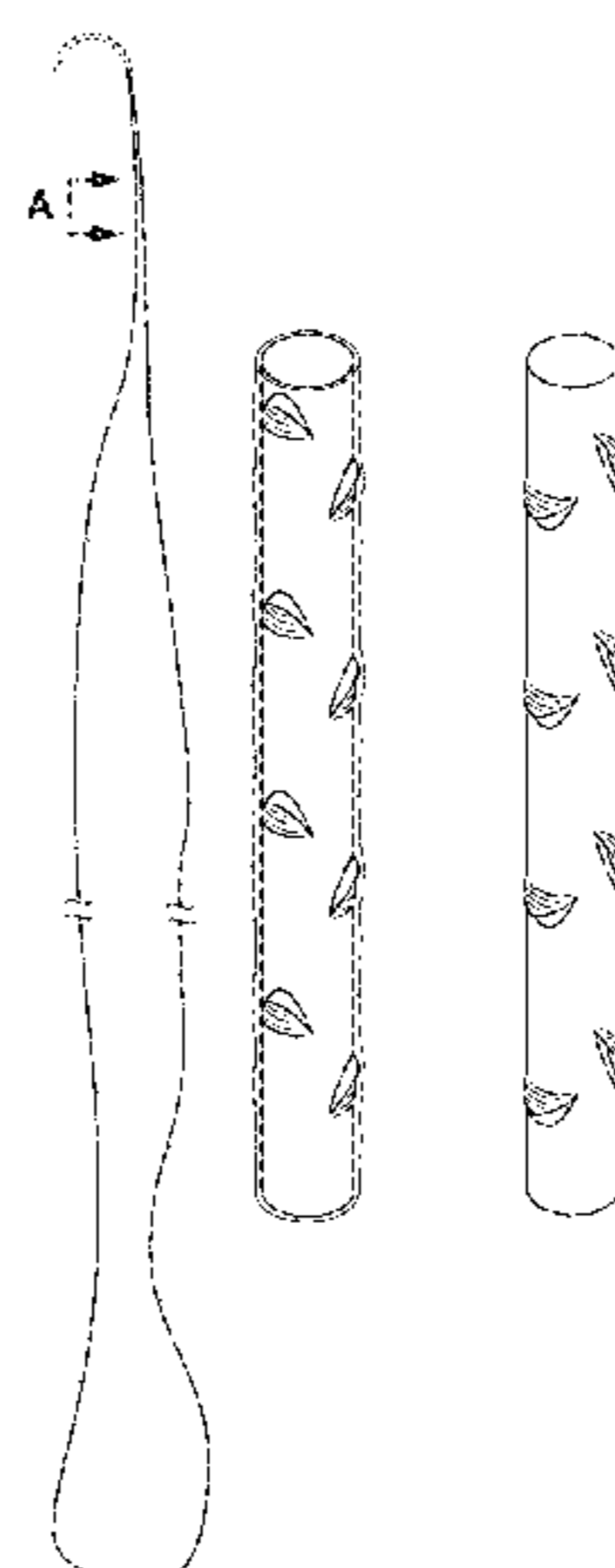
FIG. 3 is an enlarged, side elevation of a portion of the single strand mono-directional barb loop suture with single coating shield taken from FIG. 1;

FIG. 4 is a perspective view of the single strand mono-directional barb loop suture with single coating shield showing the portion indicated by Line A-A in FIG. 1;

FIG. 5 is a cross-section view thereof, showing the single strand mono-directional barb loop suture with single coating shield in a second condition of use wherein one strand is shown in a coated condition and the other strand is shown in a non-coated condition, taken along line B-B of FIG. 2; and, FIG. 6 is another cross-section view thereof, showing the single strand mono-directional barb loop suture with single coating shield in a second condition of use wherein both strands are in a non-coated condition.

The single strand mono-directional barb loop suture with single coating shield contains a repeating pattern of barbs along the lengths of the suture filaments forming a single-strand suture. Before and during use, one half of the single-

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strand suture is coated and the other half is non-coated. Once the suture is installed, the coating on the strand dissolves. The suture is shown with a symbolic break in its length. The appearance of any portion of the article between the break lines forms no part of the claimed design.

The broken lines shown in FIG. 1 illustrates the environment of the single strand mono-directional barb loop suture with single coating shield and form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**

**(58) Field of Classification Search**

CPC ..... A61B 17/06166; A61B 17/0401; A61B 2017/00526; A61B 2017/06176; A61B 17/06066; A61B 17/04; A61B 2017/0417; A61B 2017/0608; A61B 17/0469; A61B 17/0483; A61B 17/0485; A61B 17/062; A61B 2017/0046; A61B 2017/047; A61F 2002/075; B21G 1/08

See application file for complete search history.

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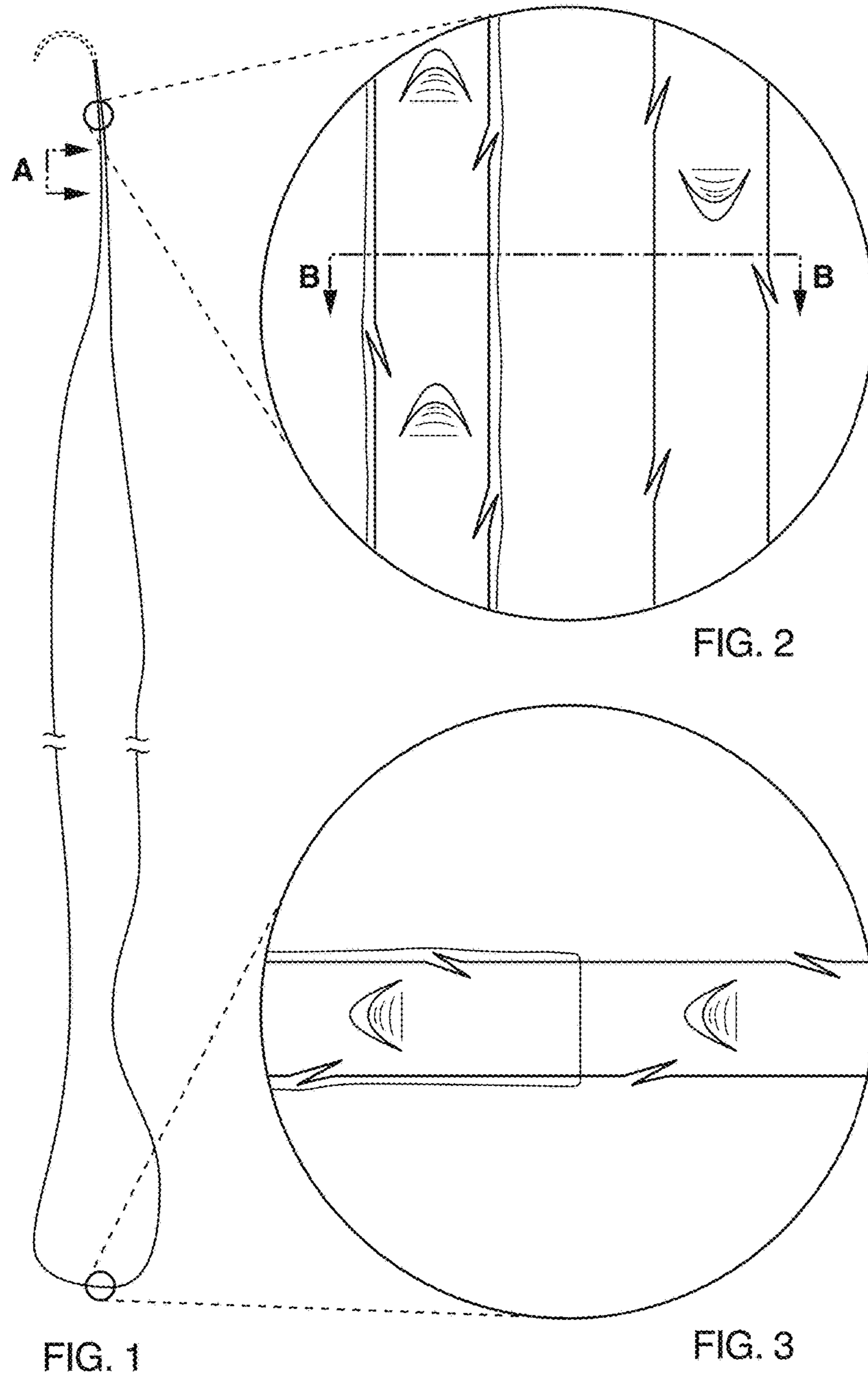
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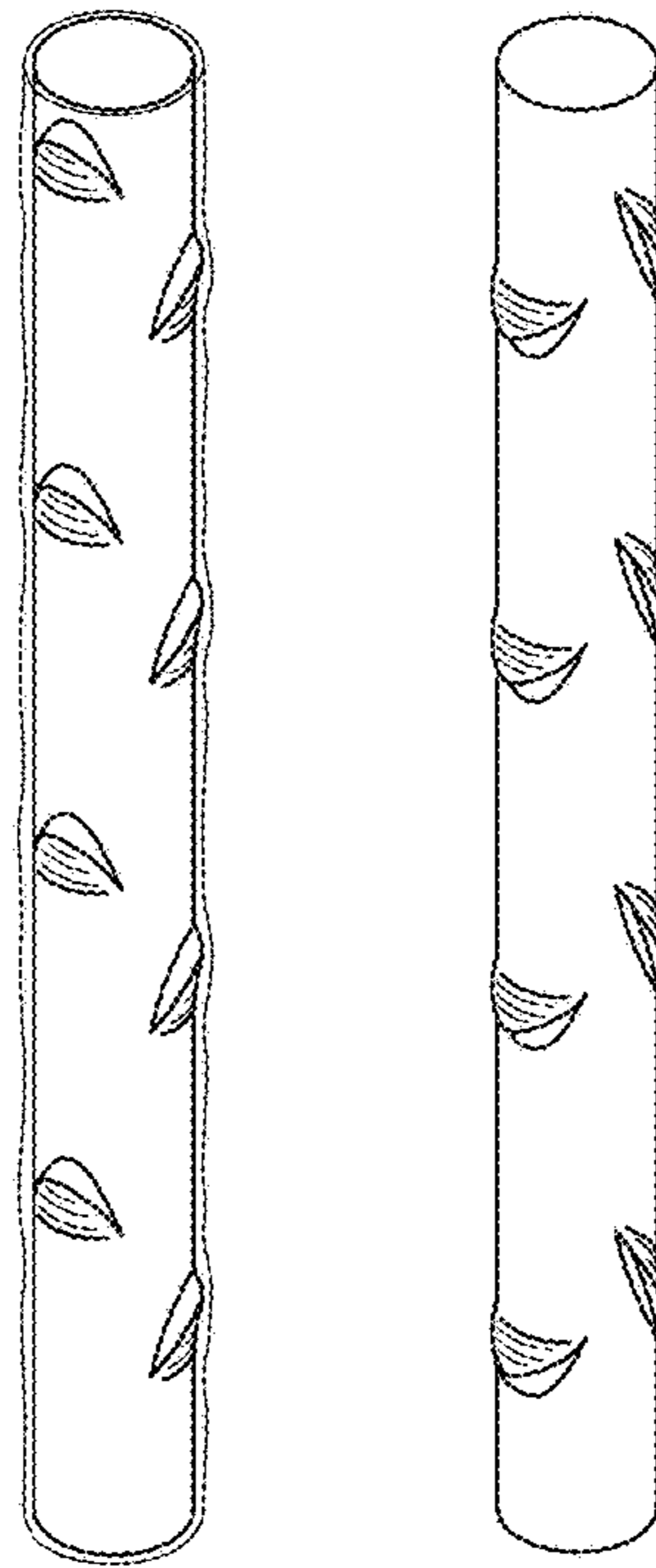


FIG. 4

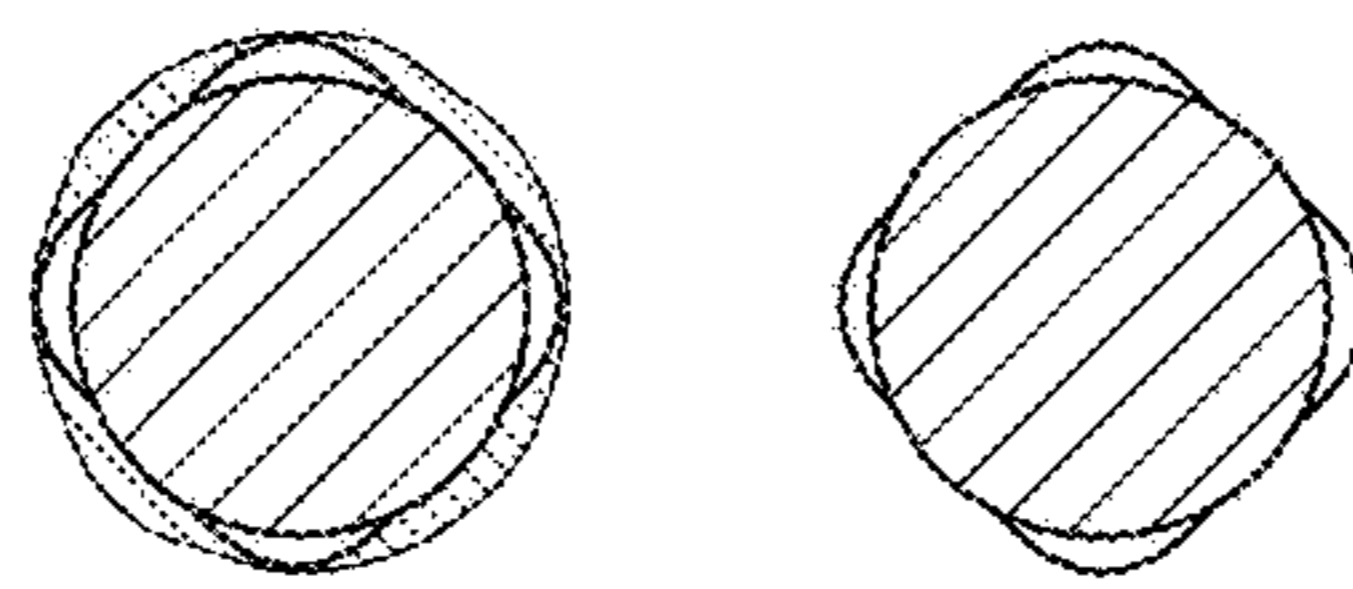


FIG. 5

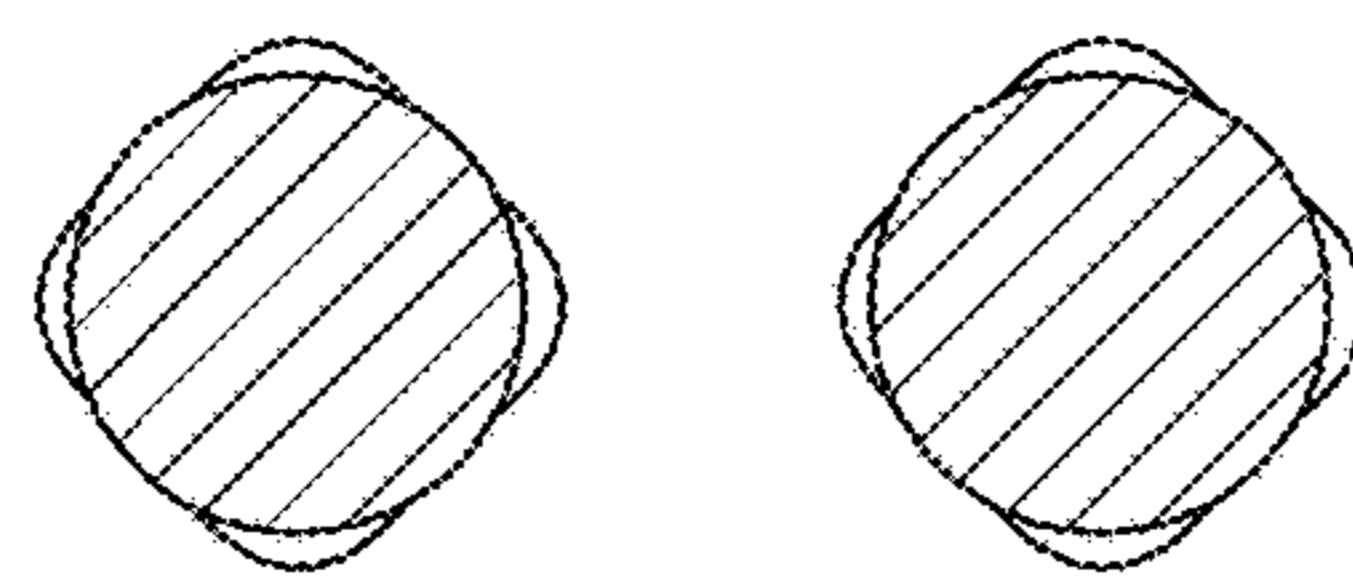


FIG. 6