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(12) **United States Design Patent** (10) **Patent No.: US D870,283 S**
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(54) **SINGLE STRAND BI-DIRECTIONAL SUTURE WITH COATING SHIELD**

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

(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/623,747**

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

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.** **24-02**

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

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

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(57) **CLAIM**

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

DESCRIPTION

FIG. **1** is a side elevation view of a single strand bi-directional suture with coating shield in accordance with the invention, showing the single strand bi-directional suture with coating shield in a first condition of use wherein the strand is shown in a coated condition;

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

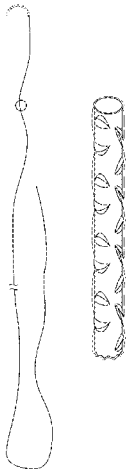
FIG. **3** is an enlarged partial perspective view of top-most portion of the single strand bi-directional suture with coating shield, as shown in FIG. **1**;

FIG. **4** is a cross-section view thereof, showing the single strand bi-directional suture with coating shield taken along line **4-4** of FIG. **2**; and,

FIG. **5** is another cross-section view thereof, showing the single strand bi-directional suture with coating shield in a second condition of use wherein the strand is in a non-coated condition.

The single strand bi-directional suture with coating shield is shown with a symbolic break in its length, i.e., FIG. **1**. The appearance of any portion of the article between the break lines forms no part of the claimed design.

The single strand bi-directional suture with coating shield contains a repeating pattern of barbs, wherein the pattern of barbs repeats along the length of the suture filaments forming a single-stranded suture. Before and during use, the single-stranded suture contains coating. Once the single strand bi-directional suture with coating shield is installed, the coating on the strand dissolves.
(Continued)



The broken lines showing selected features are for the purpose of illustrating environment and context of the article 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 17/0046; A61F 2002/075; B21G 1/08
See application file for complete search history.

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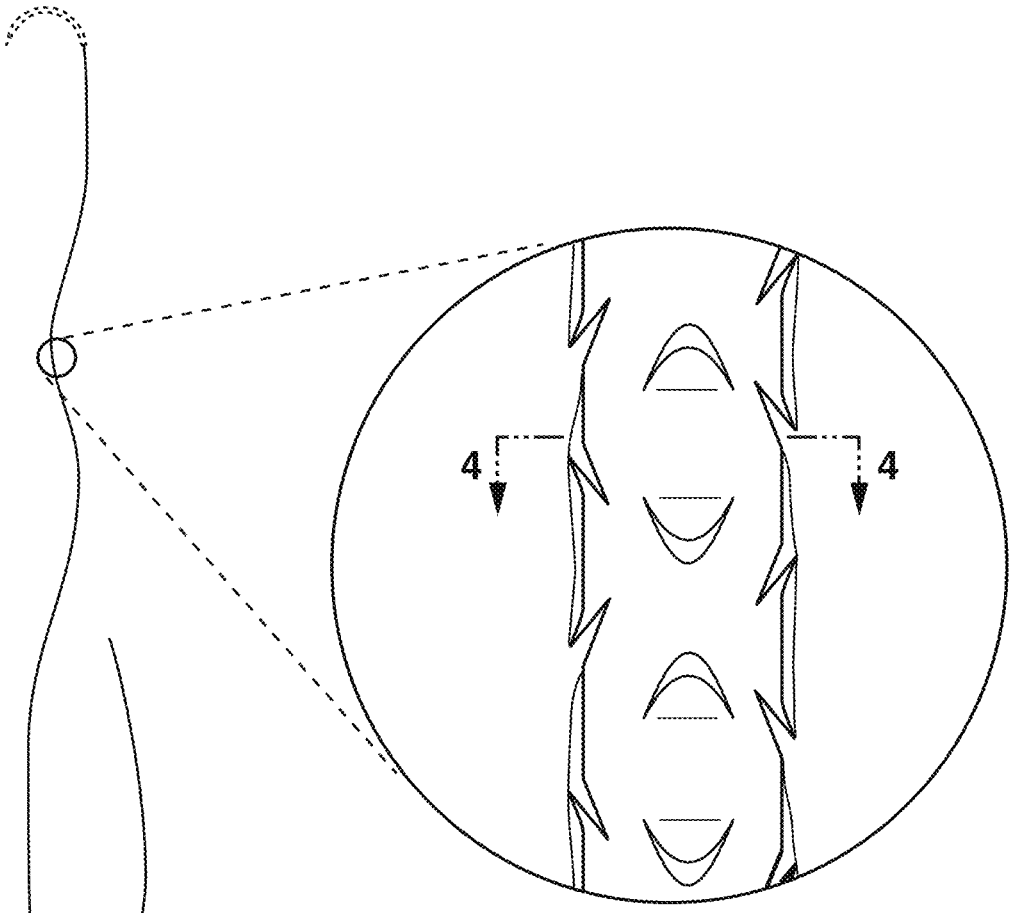

FIG. 2

FIG. 1

FIG. 3

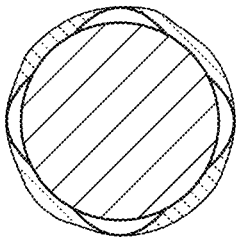

FIG. 4

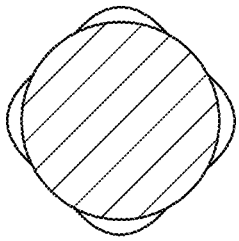

FIG. 5