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Shelton, IV et al.

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(54) **TISSUE THICKNESS COMPENSATOR COMPRISED OF A PLURALITY OF MATERIALS**

(75) Inventors: **Frederick E. Shelton, IV**, Hillsboro, OH (US); **Jeffrey S. Swayze**, Hamilton, OH (US); **Chunlin Yang**, Belle Mead, NJ (US); **Cortney E. Henderson**, Loveland, OH (US); **Taylor W. Aronhalt**, Loveland, OH (US); **Charles J. Scheib**, Loveland, OH (US); **Jeffrey L. Aldridge**, Lebanon, OH (US); **Katherine J. Schmid**, Cincinnati, OH (US)

(73) Assignee: **Ethicon Endo-Surgery, LLC**, Guaynabo, PR (US)

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(58) **Field of Classification Search**

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See application file for complete search history.

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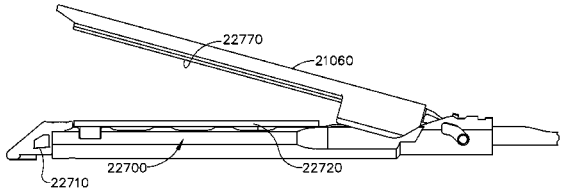
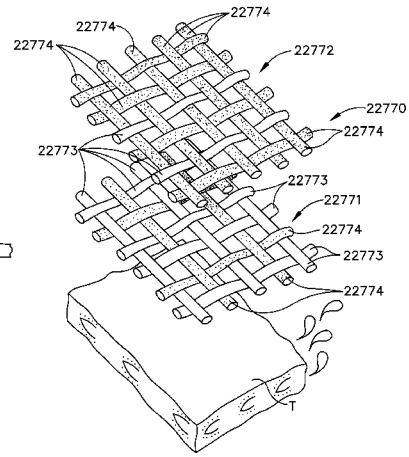
Primary Examiner — Robert Long

(57) **ABSTRACT**

A tissue thickness compensator can comprise a plurality of fibers. Such fibers can include a plurality of first fibers comprised of a first material and a plurality of second fibers comprised of a second material. A tissue thickness compensator can comprise a plurality of layers wherein each layer can be comprised of one or more medicaments. Certain embodiments are disclosed herein for manufacturing a tissue thickness compensator comprising fibers, for example.

13 Claims, 117 Drawing Sheets