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(74) Agents: **JOHNSON, Philip, S.** et al.; Johnson & Johnson,
One Johnson & Johnson Plaza, New Brunswick, NJ 08933
(US).

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(71) Applicant (*for all designated States except US*):
ETHICON ENDO-SURGERY, INC. [US/US]; 4545
Creek Road, Cincinnati, OH 45242 (US).

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(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SHELTON, Frederick, E., IV** [US/US]; 245 East Main Street, Hillsboro, OH 45133 (US). **RHEE, Sora** [DE/US]; 353 West 4th Street, Cincinnati, OH 45202 (US). **BAXTER, Chester, O., III** [US/US]; 6375 Pawnee Ridge, Loveland, OH 45140 (US). **ARONHALT, Taylor, W.** [US/US]; 306 Beach Road, Loveland, OH 45140 (US).

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(54) Title: TISSUE THICKNESS COMPENSATOR COMPRISING PORTIONS HAVING DIFFERENT PROPERTIES

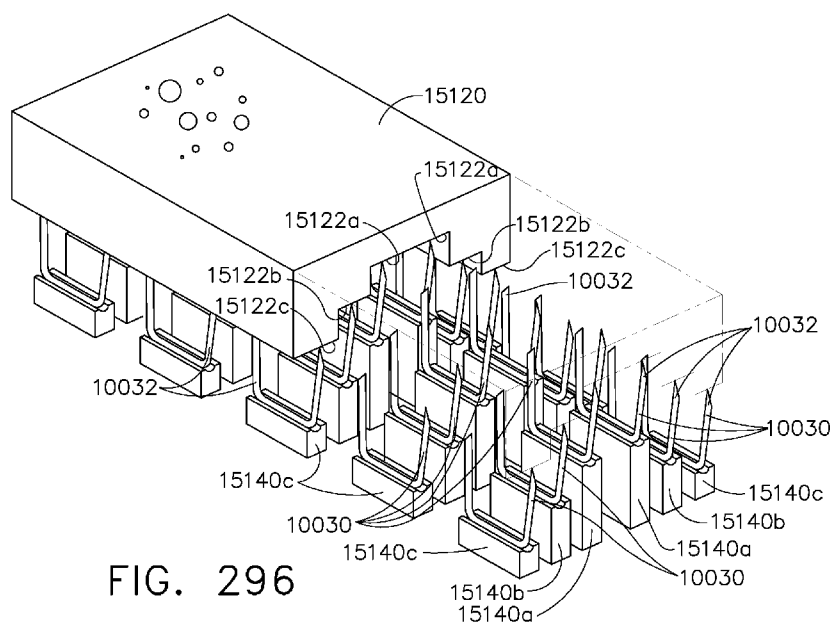


FIG. 296

(57) Abstract: A fastener cartridge can comprise a support portion, a tissue thickness compensator positioned relative to the support portion, and a plurality of fasteners positioned within the support portion and/or the tissue thickness compensator which can be utilized to fasten tissue. In use, the fastener cartridge can be positioned in a first jaw of a surgical fastening device, wherein a second jaw, or anvil, can be positioned opposite the first jaw. To deploy the fasteners, a staple-deploying member is advanced through the fastener cartridge to move the fasteners toward the anvil. As the fasteners are deployed, the fasteners can capture at least a portion of the tissue thickness compensator therein along with at least a portion of the tissue being fastened.

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