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(54) Title: FLEXIBLE ENDOSCOPIC STITCHING DEVICES

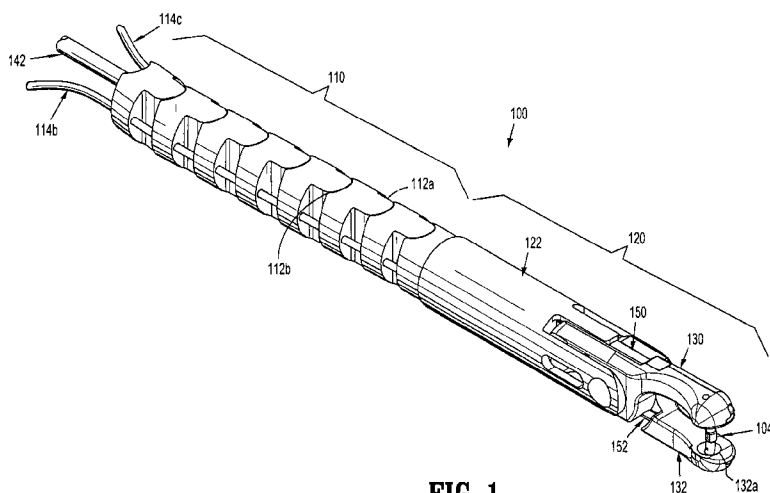


FIG. 1

(57) Abstract: An endoscopic stitching device including a tool assembly having a pair of juxtaposed jaws; a rotatably supported camming hub defining a groove formed in an inner surface of a central lumen thereof; and a center rod slidably and rotatably disposed within the lumen of the camming hub. The center rod is operatively engaged with the groove formed in the camming hub and engaged with the pair of jaws. The inner groove of the camming hub is configured such that, in at least one position, axial translation of the center rod relative to the camming hub results in rotation of the camming hub and at least one of opening and closing of the pair of jaws. The inner groove of the camming hub is configured such that, in at least one other position, rotation of the center rod results in rotation of the tool assembly.



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A. CLASSIFICATION OF SUBJECT MATTER

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USPC - 600/1 04; 606/1 39

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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USPC - 600/104; 606/139

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC - 600/104; 606/139

(Text Search)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (PGPB, USPT, USOC, EPAB, JPAB); DialogPRO (Engineering), Google Scholar and PubMed.

Search Terms: endoscopic, stitch, stitching, suture, suturing, jaw, blade, neck, camming, rotat\$, rod, hub, groove, rotate, rotating, rotatable, rotatably, translation, translate, translating, opposite, rotation, sleeve, position

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/0096694 A1 (LEE) 05 May 2005 (05.05.2005) fig 1, 4, 7A, 7B, 7D; para [0053], [0054], [0058]-[0060], [0061], [0068], [0089], [0092], [0095].	1-27
Y	US 2003/0105476 A1 (SANCOFF et al.) 05 June 2003 (05.06.2003) para [0017], [0018], [0020], [0065], [0071], [0088], [0110].	1-27
Y	US 2002/0072702 A1 (QUAY) 13 June 2002 (13.06.2002) fig 11; para [0136], [0138].	1-27
Y	US 5,938,668 A (SCIRICA et al.) 17 August 1999 (17.08.1999) col 2, ln 59-67; col 3, ln 1-4; col 7, ln 10-32; col 8, ln 47-57; col 9, ln 1-30.	3-9, 12, 17-19, 25
Y	US 2003/0116670 A1 (GENTRY) 26 June 2003 (26.06.2003) para [0001], [0003].	5-9, 12, 19, 25

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