

Title (en)

CURLED SUTURE DEVICE APPARATUS AND METHOD

Title (de)

VORRICHTUNG, EINRICHTUNG UND VERFAHREN FÜR GERINGELTE NAHT

Title (fr)

APPAREIL ET PROCÉDÉ DE DISPOSITIF DE SUTURE EN SPIRALE

Publication

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Application

EP 18846436 A 20180810

Priority

- US 201715679978 A 20170817
- US 2018046285 W 20180810

Abstract (en)

[origin: WO2019036301A1] The present invention provides a suturing device to minimize interference and obstructions during intricate surgeries. The curled suture device is significantly shorter than traditional suturing kits by featuring a needle attached to a specially manufactured thread incorporating a stopping mechanism preceding an angular, semi-rigid portion of thread followed by a curled portion of thread arranged in a corkscrew configuration. The stopping mechanism halts the movement of the thread as the needle and thread intermediate the needle and stopping mechanism is pulled through the suture point, securing the remainder of the thread for access. The semi-rigid portion of thread is thereby utilized in conjunction with its curled portion of thread, allowing for the user's unabated access to the corkscrew configuration to form a ready-made knot, minimizing interference and obstruction during surgery. The thread may be manufactured to form an additional semi-rigid and curled portions of thread upon creation of a knot.

IPC 8 full level

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Citation (search report)

- [XAI] US 2007179529 A1 20070802 - DOYLE MARK C [US]
- [XA] US 5178629 A 19930112 - KAMMERER GENE W [US]
- [X] US 2017189017 A1 20170706 - SALVANT THOMAS [US]
- [A] US 2013090686 A1 20130411 - STOPEK JOSHUA [US], et al
- See references of WO 2019036301A1

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