

Title (en)
SHAPE LOCKABLE APPARATUS AND METHOD FOR ADVANCING AN INSTRUMENT THROUGH UNSUPPORTED ANATOMY

Title (de)
FORM-ARRETIERBARES GERÄT UND VERFAHREN ZUM VORSCHIEBEN EINES INSTRUMENTS DURCH UNGESTÜTZTE ANATOMIE

Title (fr)
APPAREIL A BLOCAGE DE FORME ET PROCEDE PERMETTANT DE FAIRE PROGRESSER UN INSTRUMENT A TRAVERS UNE ANATOMIE NON SUPPORTEE

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Application
EP 03760387 A 20030613

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- US 17320302 A 20020613
- US 17322702 A 20020613
- US 17323802 A 20020613
- US 17322002 A 20020613
- US 28146202 A 20021025
- US 28146102 A 20021025
- US 28142602 A 20021025

Abstract (en)
[origin: WO03105671A2] Apparatus and methods are provided for placing and advancing a diagnostic or therapeutic instrument in a hollow body organ of a tortuous or unsupported anatomy, comprising a handle, an overtube disposed within a hydrophilic sheath, and a distal region having an atraumatic tip. The overtube may be removable from the handle, and have a longitudinal axis disposed at an angle relative to the handle. The sheath may be disposable to permit reuse of the overtube. Fail-safe tensioning mechanisms may be provided to selectively stiffen the overtube to reduce distension of the organ caused by advancement of the diagnostic or therapeutic instrument. The fail-safe tensioning mechanisms reduce the risk of reconfiguration of the overtube in the event that the tension system fails, and, in one embodiment, rigidizes the overtube without substantial proximal movement of the distal region. The distal region permits passive steering of the overtube caused by deflection of the diagnostic or therapeutic instrument, while the atraumatic tip prevents the wall of the organ from becoming caught or pinched during manipulation of the diagnostic or therapeutic instrument.

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Citation (search report)

- [XY] US 5251611 A 19931012 - ZEHLE WENDELL E [US], et al
- [Y] US 5482029 A 19960109 - SEKIGUCHI TADASHI [JP], et al
- [X] EP 1010440 A2 20000621 - ESASHI MASAYOSHI [JP], et al
- [A] EP 0742026 A1 19961113 - WERNER WOLFGANG DR MED [DE]
- [E] WO 03092476 A2 20031113 - NEOGUIDE SYSTEMS INC [US], et al
- See references of WO 03105671A2

Cited by
CN106455925A

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