

Title (en)

AUTOMATIC RETRACTABLE SAFETY PENETRATING INSTRUMENT.

Title (de)

SICH AUTOMATISCH ZURÜCKZIEHENDES SICHERHEITSPENETRATIONSINSTRUMENT.

Title (fr)

INSTRUMENT PERFORANT A RETRACTION AUTOMATIQUE DE SECURITE.

Publication

EP 0661950 A4 19960508 (EN)

Application

EP 93921437 A 19930914

Priority

- US 9308477 W 19930914
- US 94517792 A 19920915

Abstract (en)

[origin: WO9406681A2] An automatic retractable safety penetrating instrument for introduction of sleeves, such as portal sleeves, cannulas and catheters, into anatomical cavities by means of penetrating members, such as solid tip trocars, other solid configuration obturators and cannulated penetrating members, such as needles, include locking and releasing mechanisms for automatic retraction of the penetrating member into the sleeve upon the sleeve entering the anatomical cavity. Various locking and releasing mechanisms are utilized for disposition in the penetrating member hub, in the shaft of the penetrating member or partially in the shaft and the hub, and the penetrating member can be made of telescoping distal and shaft sections to minimize the length of the penetrating member hub.

IPC 1-7

A61B 17/34

IPC 8 full level

A61B 17/34 (2006.01); **A61M 25/06** (2006.01); **A61B 17/00** (2006.01); **A61M 5/32** (2006.01)

CPC (source: EP)

A61B 17/3496 (2013.01); **A61M 25/0612** (2013.01); **A61B 17/3474** (2013.01); **A61B 2017/0046** (2013.01); **A61M 5/3232** (2013.01)

Citation (search report)

- [XA] EP 0479130 A1 19920408 - UNITED STATES SURGICAL CORP [US]
- [XA] EP 0499457 A1 19920819 - MINNESOTA MINING & MFG [US]
- [A] EP 0495633 A1 19920722 - ETHICON INC [US]
- See references of WO 9406681A2

Cited by

WO2018103572A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 9406681 A2 19940331; **WO 9406681 A3 19941124**; AU 1498197 A 19970515; AU 1498597 A 19970515; AU 1498697 A 19970515; AU 4852893 A 19940412; AU 5534898 A 19980423; AU 678991 B2 19970619; AU 685723 B2 19980122; AU 686527 B2 19980205; AU 691141 B2 19980507; AU 697141 B2 19981001; CA 2144428 A1 19940331; CA 2144428 C 19990824; EP 0661950 A1 19950712; EP 0661950 A4 19960508; JP H08501470 A 19960220

DOCDB simple family (application)

US 9308477 W 19930914; AU 1498197 A 19970228; AU 1498597 A 19970228; AU 1498697 A 19970228; AU 4852893 A 19930914; AU 5534898 A 19980217; CA 2144428 A 19930914; EP 93921437 A 19930914; JP 50815794 A 19930914