

Title (en)  
INSUFFLATOR AND METHOD OF USE

Title (de)  
INSUFFLATOR UND ANWENDUNGSVERFAHREN

Title (fr)  
INSUFFLEUR ET PROCEDE D'UTILISATION

Publication  
**EP 1605812 A4 20060726 (EN)**

Application  
**EP 04717923 A 20040305**

Priority  

- US 2004003370 W 20040305
- US 45204003 P 20030306
- US 49412203 P 20030812

Abstract (en)  
[origin: WO2004080274A2] A surgical device and method for endoscopic surgical procedures capable of preventing injuries to internal organs during insertion. The surgical device can include one or more of the following: a multiple system of sharp blade edges or a single blade, a mechanical tissue protection device that includes a series of thin plastic guards sliding along the sides of the planar knives and having an angle between their edges smaller than that of the cutting knife edges, one or more fixed conical deflectors to expand the cut tissue passage leaving the guards to contact tissue contact only at their tips, an insufflation passage configured to transport fluid into the body cavity during penetration, a locking system for the guards that prevents accidental reuse of the cutting features, and/or an ergonomic design which facilitates handling.

IPC 8 full level  
**A61M 37/00** (2006.01); **A61B 1/00** (2006.01); **A61B 17/22** (2006.01); **A61B 17/32** (2006.01); **A61B 17/34** (2006.01)

IPC 8 main group level  
**A61B** (2006.01)

CPC (source: EP KR)  
**A61B 17/22** (2013.01 - KR); **A61B 17/3496** (2013.01 - EP); **A61B 17/3417** (2013.01 - EP); **A61B 17/3474** (2013.01 - EP);  
**A61B 2017/346** (2013.01 - EP)

Citation (search report)  

- [X] WO 0078387 A1 20001228 - BLANCO ERNESTO E [US]
- [X] US 5797943 A 19980825 - DANKS JOHN K [US], et al
- See references of WO 2004080274A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004080274 A2 20040923**; **WO 2004080274 A3 20060316**; AU 2004220625 A1 20040923; CA 2518043 A1 20040923;  
EP 1605812 A2 20051221; EP 1605812 A4 20060726; JP 2006519670 A 20060831; KR 20050105272 A 20051103; MX PA05009572 A 20051117

DOCDB simple family (application)  
**US 2004003370 W 20040305**; AU 2004220625 A 20040305; CA 2518043 A 20040305; EP 04717923 A 20040305; JP 2006508680 A 20040305;  
KR 20057016467 A 20050905; MX PA05009572 A 20040305