

Publication

EP 0549712 A4 19940202

Application

EP 91918189 A 19910910

Priority

- US 58094590 A 19900911
- US 60235990 A 19901022

Abstract (en)

[origin: WO9204059A1] A surgical device (10) has a first cannula (12) formed to define a first channel (13) and a second cannula (70) positioned substantially within the first channel (13) of the first cannula (12). The second cannula (70) is formed to define a second channel (73). Both the first cannula (12) and the second cannula (70) are attached to a conduit piece (20) that defines a first passageway (30) in fluid communication with the first channel (13) of the first cannula (12) and a second passageway (32) in fluid communication with the second channel (73) of the second cannula (70). A third passageway (34) defined by the conduit piece (20) is in fluid communication with the first channel (13) of the first cannula (12). The second passageway (32) is covered by a seal (80) that permits insertion of an instrument (90) therethrough while limiting undesired fluid flow.

IPC 1-7

A61M 1/00

IPC 8 full level

A61B 17/32 (2006.01); **A61B 18/14** (2006.01); **A61M 1/00** (2006.01); **A61B 10/00** (2006.01); **A61B 10/02** (2006.01); **A61B 17/00** (2006.01); **A61B 17/22** (2006.01); **A61B 17/28** (2006.01); **A61B 18/24** (2006.01); **A61B 18/26** (2006.01); **A61B 19/00** (2006.01)

CPC (source: EP US)

A61B 17/320016 (2013.01 - EP US); **A61B 17/3203** (2013.01 - EP US); **A61B 18/1482** (2013.01 - EP); **A61M 1/774** (2021.05 - EP US); **A61M 1/84** (2021.05 - EP US); **A61B 10/0275** (2013.01 - EP); **A61B 10/0283** (2013.01 - EP); **A61B 17/29** (2013.01 - EP); **A61B 18/14** (2013.01 - EP); **A61B 18/24** (2013.01 - EP); **A61B 18/26** (2013.01 - EP); **A61B 90/04** (2016.02 - EP); **A61B 2017/0023** (2013.01 - EP); **A61B 2017/0046** (2013.01 - EP); **A61B 2017/22072** (2013.01 - EP); **A61B 2090/306** (2016.02 - EP); **A61M 1/7411** (2021.05 - EP US); **A61M 1/772** (2021.05 - EP US)

Citation (search report)

- [X] EP 0327410 A1 19890809 - SINERGY SA [FR]
- [Y] DE 3816059 A1 19891123 - ZIRM MATHIAS [AT]
- [A] FR 2474857 A1 19810807 - BOUTMY ETS [FR]
- [A] DE 3802907 A1 19890810 - HENSLER EWALD [DE]

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 9204059 A1 19920319; AU 8722291 A 19920330; CA 2051068 A1 19920312; EP 0549712 A1 19930707; EP 0549712 A4 19940202

DOCDB simple family (application)

US 9106547 W 19910910; AU 8722291 A 19910910; CA 2051068 A 19910910; EP 91918189 A 19910910