

Title (en)  
TRACK GUIDED END EFFECTOR ASSEMBLY

Title (de)  
BAHNGEFÜHRTES GREIFORGAN

Title (fr)  
ENSEMBLE EFFECTEUR TERMINAL GUIDE PAR UN CANAL

Publication  
**EP 0793448 A4 19981209 (EN)**

Application  
**EP 95926705 A 19950714**

Priority  
• US 9508911 W 19950714  
• US 27529094 A 19940714  
• US 27529194 A 19940714

Abstract (en)  
[origin: WO9602193A1] An end effector assembly (120) for use with an endoscopic instrument (10) includes a clevis (56) and first and second end effectors (58, 59). The clevis (56) has curved channels extending from a distal portion of the clevis towards the proximal portion of the clevis means. Each channel has first and second inner curved walls. The end effectors (58, 59) each have a proximally extending tang with first and second curved surfaces. The tangs of the end effectors are respectively disposed in the channels of the clevis (56), and are guided by the channels such that they are moved forward by a control member (16) of the endoscopic instrument (10), first curved surfaces of the tangs engage said first inner curved walls of the clevis to cause the end effectors to open. When the control member (10) moves the end effectors (58, 59) back, the second curved surfaces of the tang engage the second inner curved walls of the clevis which cause the end effector to close.

IPC 1-7  
**A61B 17/00**

IPC 8 full level  
**A61B 17/00** (2006.01); **A61B 17/28** (2006.01)

CPC (source: EP)  
**A61B 17/29** (2013.01); **A61B 2017/00477** (2013.01); **A61B 2017/2923** (2013.01); **A61B 2017/2929** (2013.01); **A61B 2017/2931** (2013.01); **A61B 2017/2934** (2013.01); **A61B 2017/294** (2013.01)

Citation (search report)  
• [XY] EP 0513471 A2 19921119 - KOTHE LUTZ [DE]  
• [X] US 4712545 A 19871215 - HONKANEN GEORGE P [US]  
• [YA] DE 3921935 A1 19900201 - SCHAD KARL [DE]  
• [A] US 5172700 A 19921222 - BENCINI ROBERT F [US], et al  
• [Y] DE 9401556 U1 19940317 - LEIBINGER MEDIZINTECH [DE]  
• See references of WO 9602193A1

Designated contracting state (EPC)  
DE ES FR GB IE

DOCDB simple family (publication)  
**WO 9602193 A1 19960201**; AU 3099495 A 19960216; CA 2194775 A1 19960201; EP 0793448 A1 19970910; EP 0793448 A4 19981209; JP H10502848 A 19980317

DOCDB simple family (application)  
**US 9508911 W 19950714**; AU 3099495 A 19950714; CA 2194775 A 19950714; EP 95926705 A 19950714; JP 50519496 A 19950714