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(71) Applicant: **Ethicon Endo-Surgery, Inc.**
Cincinnati, OH 45242 (US)

(72) Inventors:

- **Giordano, James R.**
Milford, OH 45150 (US)
- **Shelton IV, Frederick E.**
New Vienna, OH 45159 (US)

(74) Representative: **Tunstall, Christopher Stephen**
Carpmaels & Ransford
One Southampton Row
London
WC1B 5HA (GB)

(54) **Surgical instrument with elements to communicate between control unit and end effector**

(57) A surgical instrument, such as an endoscopic or laparoscopic instrument, includes a shaft having a proximal end and a distal end. The shaft includes a first sensor element. An end effector is coupled to the distal end of the shaft. The end effector includes a second sensor element. A handle is connected to the proximate end of the shaft. The handle includes a control unit. The control unit is in communication with the first sensor element and the first sensor element is in wireless communication with the second sensor element.

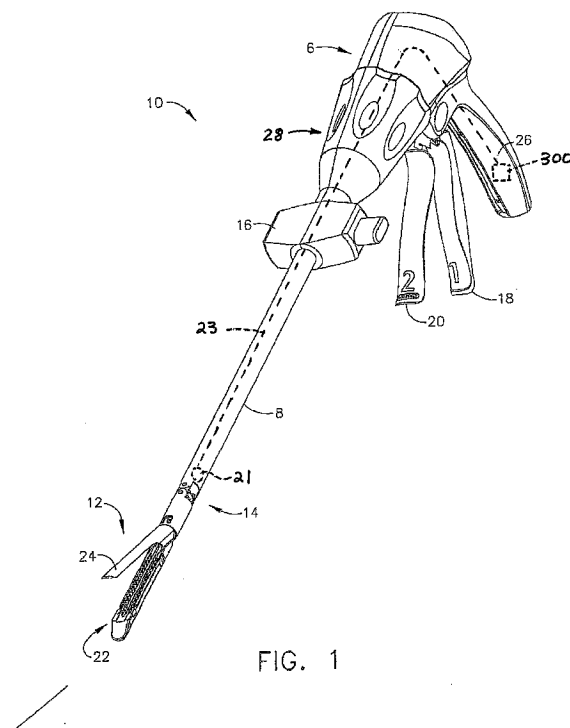


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 11 15 5227

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The present search report has been drawn up for all claims				
Place of search The Hague		Date of completion of the search 17 April 2012	Examiner Giménez Burgos, R	
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专利名称(译)	具有在控制单元和末端执行器之间通信的元件的手术器械		
公开(公告)号	EP2356949A3	公开(公告)日	2012-05-30
申请号	EP2011155227	申请日	2008-01-09
[标]申请(专利权)人(译)	伊西康内外科公司		
申请(专利权)人(译)	爱惜康内镜手术，INC.		
当前申请(专利权)人(译)	爱惜康内镜手术，INC.		
[标]发明人	GIORDANO JAMES R SHELTON IV FREDERICK E		
发明人	GIORDANO, JAMES R. SHELTON IV, FREDERICK E.		
IPC分类号	A61B17/072		
CPC分类号	A61B17/07207 A61B90/361 A61B2017/00022 A61B2017/0003 A61B2017/00212 A61B2017/00221 A61B2017/00398 A61B2017/00482 A61B2017/00734 A61B2017/07214 A61B2034/2051 A61B2090 /0811		
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摘要(译)

外科手术器械，例如内窥镜或腹腔镜器械，包括具有近端和远端的轴。轴包括第一传感器元件。末端执行器联接到轴的远端。末端执行器包括第二传感器元件。把手连接到轴的近端。手柄包括控制单元。控制单元与第一传感器元件连通，并且第一传感器元件与第二传感器元件无线通信。

