

### United States Patent [19]

### Hooven

[11] Patent Number: 5,383,880

### [45] Date of Patent: Jan. 24, 1995

- [54] ENDOSCOPIC SURGICAL SYSTEM WITH SENSING MEANS
- [75] Inventor: Michael D. Hooven, Cincinnati, Ohio
- [73] Assignee: Ethicon, Inc., Somerville, N.J.
- [21] Appl. No.: 991,619
- [22] Filed: Dec. 16, 1992

#### **Related U.S. Application Data**

- [63] Continuation-in-part of Ser. No. 822,478, Jan. 17, 1992, abandoned.
- [51] Int. Cl.<sup>6</sup> ...... A61B 17/12

[56] References Cited U.S. PATENT DOCUMENTS

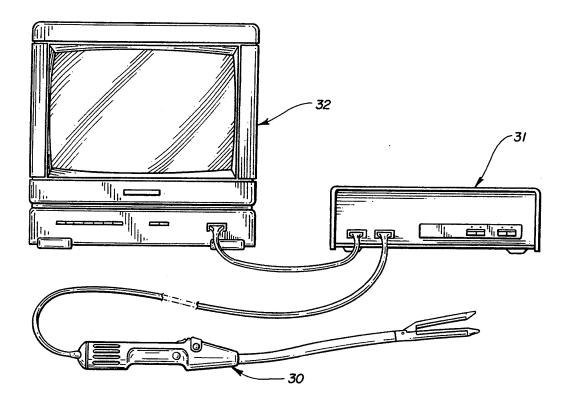
# 5,197,649 3/1993 Bessler et al. 227/19 X 5,207,691 5/1993 Nardella 227/901 X 5,258,007 11/1993 Spetzler et al. 227/901 X

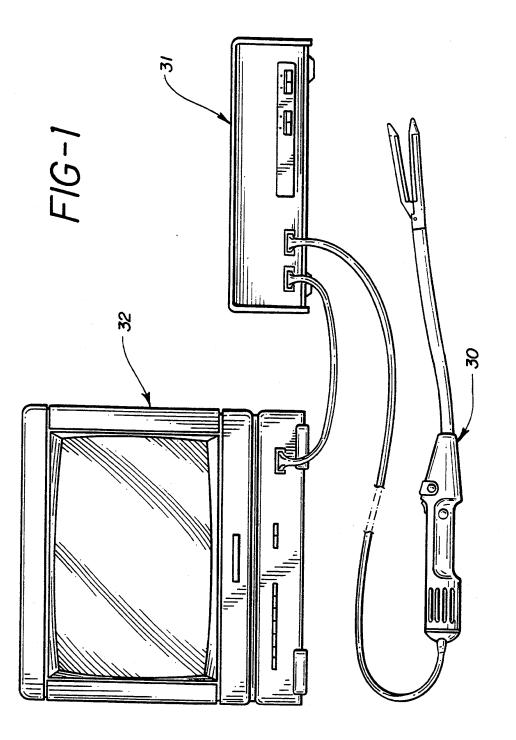
Primary Examiner-Rinaldi I. Rada Attorney, Agent, or Firm-Paul A. Coletti

#### [57] ABSTRACT

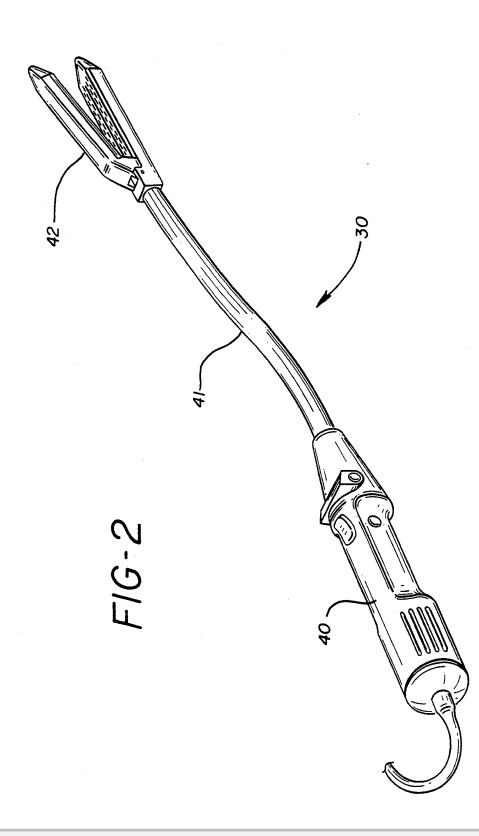
An endoscopic surgical system which includes an instrument for carrying out a step in the procedure. The instrument is power operated and the system includes sensing means to control the operation of the instrument.

#### 6 Claims, 15 Drawing Sheets



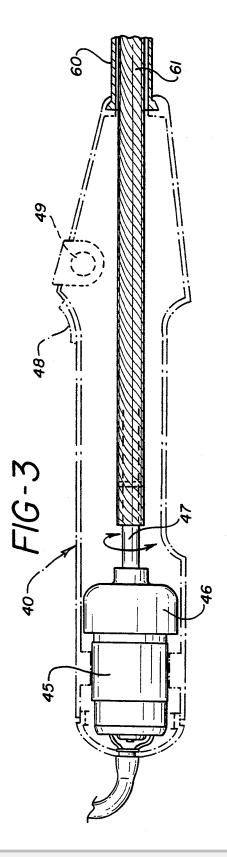


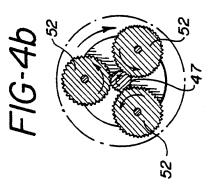
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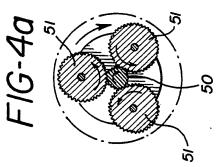


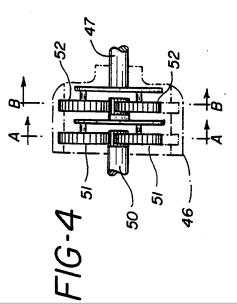
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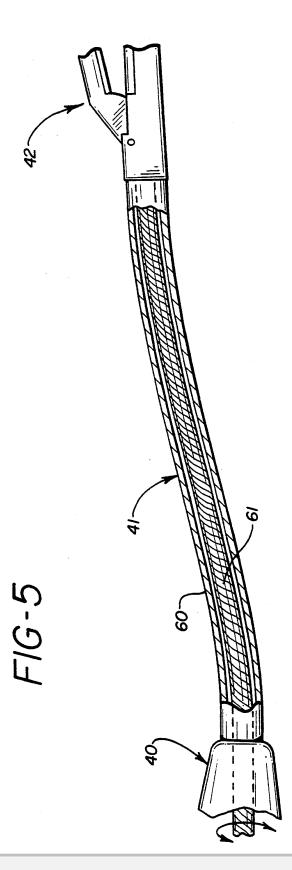








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