



US005441042A

# United States Patent [19]

[11] Patent Number: **5,441,042**

Putman

[45] Date of Patent: \* **Aug. 15, 1995**

[54] **ENDOSCOPE INSTRUMENT HOLDER**

[76] Inventor: **John M. Putman**, 3707 Gaston Ave., Suite 410, Dallas, Tex. 75246

[\*] Notice: The portion of the term of this patent subsequent to Feb. 9, 2010 has been disclaimed.

[21] Appl. No.: **171,923**

[22] Filed: **Dec. 22, 1993**

|           |         |                   |           |
|-----------|---------|-------------------|-----------|
| 4,854,301 | 8/1989  | Nakajima          | 128/4     |
| 4,867,404 | 9/1989  | Harrington et al. | 248/231.4 |
| 5,061,018 | 10/1991 | Pederson          | .         |
| 5,224,680 | 6/1993  | Greenstein et al. | 128/20 X  |

### FOREIGN PATENT DOCUMENTS

|           |         |                    |   |
|-----------|---------|--------------------|---|
| 0239409   | 9/1987  | European Pat. Off. | . |
| 0326768A3 | 8/1989  | European Pat. Off. | . |
| 0456103A2 | 11/1991 | European Pat. Off. | . |
| 0456103A3 | 11/1991 | European Pat. Off. | . |
| 2232655A  | 12/1990 | United Kingdom     | . |
| 1268278   | of 0000 | U.S.S.R.           | . |

### Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 15,393, Feb. 8, 1993, Pat. No. 5,351,676, which is a continuation-in-part of Ser. No. 740,413, Aug. 5, 1991, Pat. No. 5,184,601.

[51] Int. Cl.<sup>6</sup> ..... **A61B 1/00**

[52] U.S. Cl. .... **601/109; 601/114**

[58] Field of Search ..... 248/316.5; 128/4, 6, 128/20; 606/130, 170, 46, 208; 604/180

### [56] References Cited

#### U.S. PATENT DOCUMENTS

|           |         |                |          |
|-----------|---------|----------------|----------|
| 3,043,448 | 7/1962  | Melton         | 901/17 X |
| 3,575,301 | 4/1971  | Panissidi      | 901/16 X |
| 4,229,136 | 10/1980 | Panissidi      | 901/16 X |
| 4,510,926 | 4/1985  | Inaba          | 128/20   |
| 4,572,594 | 2/1986  | Schwartz       | .        |
| 4,573,452 | 3/1986  | Greenberg      | 128/20   |
| 4,593,681 | 6/1986  | Soni           | 128/4    |
| 4,601,284 | 7/1986  | Arakawa et al. | 128/6    |
| 4,607,897 | 8/1986  | Schwartz       | .        |

### OTHER PUBLICATIONS

Brochure, "Elmed Endoscopic Fixation Device", Elmed Incorporated (not dated).

*Primary Examiner*—Richard J. Apley  
*Assistant Examiner*—Beverly A. Meindl  
*Attorney, Agent, or Firm*—Dennis T. Griggs

### [57] ABSTRACT

A portable console includes a universal positioning arm employing a clamp having quick disconnect means for releasably holding a surgical instrument such as an endoscope during a surgical procedure. The clamp includes a shaft with a bayonet connector disposed thereon, for lockably engaging a collar attached to the positioning arm. The bayonet connector includes flared spring arms which compress and engage the collar for releasably coupling the clamp to the collar.

**16 Claims, 7 Drawing Sheets**

