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- (54) Title:** SURGICAL TOOL, PARTICULARLY FOR USE IN LAPAROSCOPY

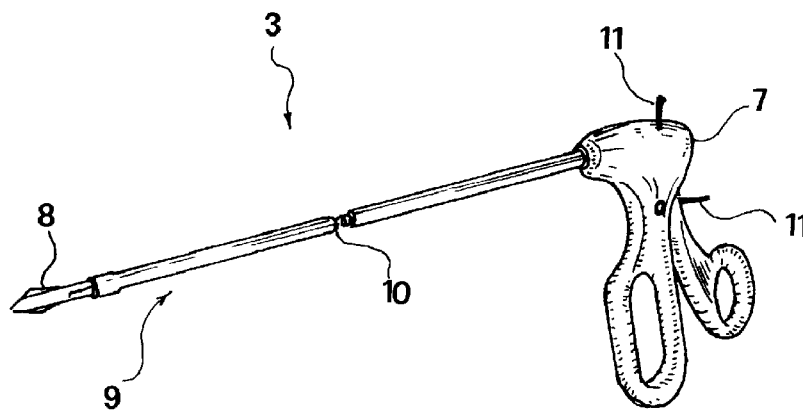


FIG. 2

- (57) Abstract:** A surgical instrument (3), in particular for use in laparoscopy, comprises means for inducing the surface adsorption of ions in correspondence of said sheath (10) allowing to reducing burns due to electrical dispersions.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/005053 A1 (DANDO JEREMY D [US]) 4 January 2007 (2007-01-04) paragraph [0041]; figure 1	1-3, 5-6
X	US 2003/225312 A1 (SUZUKI KEITA [JP] ET AL) 4 December 2003 (2003-12-04) paragraph [0090]; figures 17-22 paragraph [0098]	1-3, 5-6
X	US 2005/043682 A1 (KUCKLICK THEODORE R [US] ET AL) 24 February 2005 (2005-02-24) paragraph [0044] - paragraph [0045]; figure 8	1-3, 5-6
X	WO 95/20914 A1 (SYMBIOSIS CORP [US]; SLATER CHARLES RAYMOND [US]; PALMER MATTHEW ALBER) 10 August 1995 (1995-08-10) page 8, line 23 - line 26; figure 1 page 17, line 25 - line 30; figure 12	1-4

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2007005053	A1	04-01-2007	AU 2006276903 A1 CA 2611952 A1 EP 1903969 A2 JP 2009500073 T WO 2007018751 A2	15-02-2007 15-02-2007 02-04-2008 08-01-2009 15-02-2007
US 2003225312	A1	04-12-2003	US 2006025654 A1	02-02-2006
US 2005043682	A1	24-02-2005	AU 2003293496 A1 EP 1660170 A1 WO 2005025667 A1	06-04-2005 31-05-2006 24-03-2005
WO 9520914	A1	10-08-1995	AT 235189 T AU 694757 B2 AU 1568695 A CA 2181545 A1 CN 1143899 A DE 69530130 D1 DE 69530130 T2 EP 0843533 A1 ES 2194901 T3 JP 3589671 B2 JP 9508540 T US 5638827 A	15-04-2003 30-07-1998 21-08-1995 10-08-1995 26-02-1997 30-04-2003 04-03-2004 27-05-1998 01-12-2003 17-11-2004 02-09-1997 17-06-1997