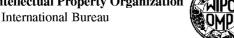
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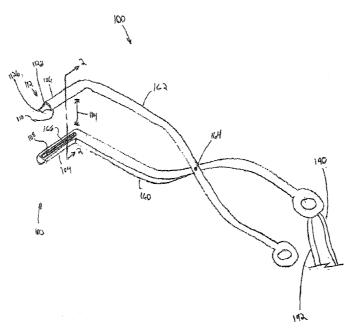
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(54) Title: HIGH INTENSITY ABLATION DEVICE



(57) Abstract: An apparatus for ablating tissue, the apparatus having first and second opposing jaws operative to compress tissue to be ablated therebetween, the first jaw having a first ablation surface directing ablative energy into the tissue and the second jaw having a second ablation surface reflecting incident ablative energy into the tissue. The ablative energy may be ultrasonic, microwave, cryoablation, radio-frequency, photodynamic, laser, and cautery energy. The instrument may also have a pointed tip for piercing tissue, allowing the instrument to clamp the tissue wall of a hollow organ before ablation. Alternately, the instrument may clamp two or more tissue layers of a hollow organ without piercing prior to clamping an ablation.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/07630

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : A61B 18/18			
US CL: 606/27 According to International Patent Classification (IPC) or to both national classification and IPC			
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Minimum documentation searched (classification system followed by classification symbols) U.S.: 606/27-31, 48-52, 205, 206			
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 practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Y	US 4,872,456 A (HASSON) 10 October 1999 (10.10	0.1999), whole document	8-9
x	US 4,240,431 A (KOMIYA) 23 December 1980 (23.12.1980), Figures 16-17		1,4,5,7,10
X	US 2002/0120263 A1 (BROWN et al) 29 August 2002 (29.08.2002), whole document, Abstract		1, 3-7
Y	Austract		2,8,9,11,12
Y	US 2003/0216733 A1 (McCLURKEN et al) 20 Nove document, abstract	2	
Y	US 5,626,607 A (MALECKI et al) 6 May 1997 (06.05.1997), whole document		11, 12
A US 5,3222,055 A (DAVISON et al) 21 June 1994(21.06.1994), whole document			1-12
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