IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of: James E. Jervis

U.S. Patent No.: 6,306,141

Issue Date: October 23, 2001

Serial No.: 08/483,291 Filing Date: June 7, 1995

Title: MEDICAL DEVICES INCORPORATING SIM ALLOY

ELEMENTS

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PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NUMBER 6,306,141 UNDER 35 U.S.C. §§ 311-319

Edwards Lifesciences Corporation ("Edwards" or "Petitioner") hereby requests *Inter Partes* Review ("IPR") of Claims 1-22 in U.S. Patent Number 6,306,141 ("the '141 Patent") (**Exhibit 1001**). A detailed statement supporting the petition follows.

The requisite fee accompanies this request. If any additional fee is necessary, the Director is authorized to charge Deposit Account No. 50-5226. This document, together with all exhibits referenced herein, has been served on the patent owner at the addresses of record for the '141 Patent as reflected in the accompanying Certificate of Service.



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EXHIBIT LIST

1001 U.S. Patent No. 6,306,141 to Jervis 1002 Declaration of Ming H. Wu, Ph.D. 1003 Curriculum Vitae of Ming H. Wu, Ph.D. 1004 A. Cragg et al., Nonsurgical Placement of Arterial Endoprostheses: A New Technique Using Nitinol Wire, Radiology, 147: 261-263 (April 1983) A. Cragg et al., A New Percutaneous Vena Cava Filter, American 1005 Journal of Roentgenology, 141: pp. 601-604 (September 1983) 1006 Certified Translation of Japanese Patent Publication No. S58-46923 to Miyauchi et al. (filed Sept. 12, 1981; disclosed Mar. 18, 1983) 1007 U.S. Patent No. 3,620,212 to Fannon *et al.* (Granted Nov. 16, 1971) 1008 H. Ling et al., Phase Transitions and Shape Memory in NiTi, Metallurgical Transactions A, 11A: 77-79 (1980) 1009 U.S. Patent No. 4,503,569 to Dotter (Filed Mar. 3, 1983; Granted Mar. 12, 1985) 1010 L. Delaey et al., Thermoelasticity, Pseudoelasticity and the Memory Effects Associated with Martensitic Transformations. Part 1: Structural and Microstructural Changes Associated with the Transformations, Journal of Materials Science, 9: 1521-1535 (1974) 1011 R.V. Krishnan et al., Thermoplasticity, Pseudoelastiticy and the Memory Effects Associated with Martensitic Transformations. Part 2: The Macroscopic Mechanical Behavior, Journal of Materials Science, 9: 1536-1544 (1974) 1012 K. Otsuka et al., Pseudoelastiticy, Metals Forum, 4(3): 142-152 (1981)



1013	J.R. Patel et al., Criterion for the Action of Applied Stress in the Martensitic Transformation, Acta Metallurgica, 1: 531-538 (1953)
1014	L.M. Schetky, <i>Shape Memory Alloys</i> , Scientific American, 241(5): 74-82 (1979)
1015	K. Otsuka <i>et al.</i> , <i>Stress and Strain Induced Martensitic Transformations</i> , Proceedings of the Int'l Conference on Martensitic Transformations: ICOMAT 1979, 607-618 (Jun 1979)
1016	February 26, 2001 BPAI Decision (Excerpt from the '141 Patent Prosecution History)
1017	March 18, 1998 Applicant Remarks to Office Action (Excerpt from the '141 Patent Prosecution History)
1018	April 2, 1997 Applicant Remarks to Office Action (Excerpt from the '141 Patent Prosecution History)
1019	March 18, 1998 Declaration of Dr. Lee Middleman (Excerpt from the '141 Patent Prosecution History)
1020	U.S. Patent No. 5,597,378 to Jervis
1021	T.L. Lopes et al., Fatigue Performance of Nitinol Tubing with A_f of 25°C, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, 311-320 (2003)
1022	M. Wu et al., What is the Big Deal About the Af Temperature?, Proceedings of the International Conference on Shape Memory and Superelastic Technologies, 143-154 (May 2006)
1023	D.B. Chernov et al., The Multiplicity of Structural Transitions in Alloys Based on TiNi, Soviet Physics Doklady, 24(8): 664-666 (Aug. 1979)
1024	Original Japanese Patent Publication No. S58-46923 to Miyauchi <i>et al.</i> (filed Sep. 12, 1981; disclosed Mar. 18, 1983)
1025	Complete Prosecution History of the '141 Patent



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