UNITED STATES PATENT AND TRADEMARK OFFICE					
BEFORE THE PATENT TRIAL AND APPEAL BOARD					
NUVASIVE, INC. Petitioner					
V.					
WARSAW ORTHOPEDIC, INC. Patent Owner  Patent Number: 8,251,997 B2 Issue Date: August 28, 2012  METHOD FOR INSERTING AN ARTIFICIAL IMPLANT BETWEEN TWO ADJACENT VERTEBRAE ALONG A CORONAL PLANE					
Case IPR2013-00206					

PETITIONER'S REPLY TO PATENT OWNER'S RESPONSE



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	A. "Coronal plane" path to spine (claims 1, 9, 17 and 24)	1			
	B. "Elongated portion" (claims 9, 17 and 24)	1			
	C. Implant length/vertebrae width ratio: "Substantially the full traverse width (claims 1, 9 and 17) and the "full transverse width" (claim 24)				
III.	Jacobson discloses a direct lateral approach that meets the "coronal plane" path limitation and teaches the insertion of a fusion implant (Claims 9-30: Ground 6)				
IV.	Brantigan '327 discloses the lateral insertion of an implant, and even if it didn't, that is not necessary for obviousness (Claims 17-23: Grounds 3-4) 7				
V.	Brantigan '327 meets the "substantially the full transverse width of the vertebrae" claim limitation (at least Claims 17-23: Grounds 3-4)				
VI.	Michelson '247, when inserted laterally according to the teachings of Jacobson, would meet the "substantially" or "full" transverse width limitations (at least Claims 9-16 and 24-30: Grounds 1-2 and 5-6)				
VII.	Claims 24-30: If this Board interprets the claim 24 limitation of "full transverse width" different from claims 9 and 17, then either Michelson '247 meets claim 24 (under Grounds 5-6) or the validity of claims 24-30 under Ground 8 should be considered				
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## **EXHIBITS**

NUVASIVE 1001	Declaration of Dr. McAfee, M.D., M.B.A.
NUVASIVE 1002	U.S. Patent No. 8,251,997 to Michelson ("'997 patent")
NUVASIVE 1003	Select Prosecution History of the '997 patent
NUVASIVE 1004	U.S. Pat. No. 4,545,374 to Jacobson ("Jacobson")
NUVASIVE 1005	Leu et al., <i>Percutaneous Fusion of the Lumbar Spine</i> , Spine Vol. 6, No. 3, pp. 593-604 (September 1992) ("Leu")
NUVASIVE 1006	U.S. Pat. No. 5,192,327 to Brantigan ("Brantigan")
NUVASIVE 1007	U.S. Pat. No. 4,917,704 to Frey et al. ("Frey")
NUVASIVE 1008	U.S. Pat. No. 5,015,247 to Michelson ("Michelson '247")
NUVASIVE 1009	U.S. Pat. No. 5,569,290 to McAfee ("McAfee")
NUVASIVE 1010	U.S. Pat. No. 5,772,661 to Michelson ("Michelson '661")
NUVASIVE 1011	U.S. Pat. No. 8,343,224 to Lynn et al. ("Lynn")
NUVASIVE 1012	Affidavit of Mr. Frank E. Scherkenbach in support of Petitioner's Motion for <i>Pro Hac Vice</i> Admission
NUVASIVE 1013	Resume of Mr. Frank E. Scherkenbach, provided as an exhibit to Petitioner's Motion for <i>Pro Hac Vice</i>



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NUVASIVE 1014 Cover page and Affidavit of Henry Vernon Crock, AO, MD, MS,

FRCS, FRACS, FRCS Ed (Hon), D. Sc (Horaris causa), of

Melbourne, Australia, made September 11, 2012

NUVASIVE 1015 Exhibit HVC-1 to Affidavit of Henry Vernon Crock, being a copy

of Federal Court of Australia Practice Note CM7

NUVASIVE 1016 Exhibit HVC-2 to Affidavit of Henry Vernon Crock, being a copy

of the curriculum vitae of Henry Vernon Crock

NUVASIVE 1017 Exhibit HVC-3 to Affidavit of Henry Vernon Crock, being a copy

of Crock, "Observations on the Management of Failed Spinal

Operations," in <u>The Journal of Bone and Joint Surgery</u>, Vol.

58-B, No. 2, pp. 193-199, May 1976

NUVASIVE 1018 Exhibit HVC-4 to Affidavit of Henry Vernon Crock, being a copy

of Crock, "Anterior Lumbar Interbody Fusion – Indications for its

Use and Notes on Surgical Technique," in Clinical Orthopedics

and Related Research, No. 165, May 1982

NUVASIVE 1019 Exhibit HVC-5 to Affidavit of Henry Vernon Crock, being a copy

of Fujimaki et al., "The Results of 150 Anterior Lumbar

Interbody Fusion Operations Performed by Two Surgeons in

Australia," in in Clinical Orthopedics and Related Research, No.

165, May 1982

NUVASIVE 1020 Exhibit HVC-6 to Affidavit of Henry Vernon Crock, being a copy

of Crock, A Practice of Spinal Surgery, Springer-Verlag, Wein,

New York, Revised 1st Edition, 1983



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NUVASIVE 1021	Exhibit to HVC-7 Affidavit of Henry	Vernon Crock.	being a copy

of Crock, A Short Practice of Spinal Surgery, Springer-Verlag,

Wein, New York, Revised 2<sup>nd</sup> Edition, 1993

NUVASIVE 1022 Reserved – no exhibit

NUVASIVE 1023 Reserved – no exhibit

NUVASIVE 1024 Reserved – no exhibit

NUVASIVE 1025 Reserved – no exhibit

NUVASIVE 1026 Reserved – no exhibit

NUVASIVE 1027 Page 29 of NUVASIVE 1003, hand-annotated by Dr. Sachs

during Feb. 25, 2014 Deposition

NUVASIVE 1028 Transcript of Deposition of Dr. Barton Sachs, Conducted Feb.

25, 2014

NUVASIVE 1029 Second Declaration of Dr. Paul McAfee, M.D., M.B.A.

NUVASIVE 1030 Declaration of Dr. Robert Jacobson, M.D.

NUVASIVE 1031 Declaration of Dr. John Brantigan, M.D.

NUVASIVE 1032 Declaration of Patrick Miles

NUVASIVE 1033 U.S. Patent No. 6,241,770 to Michelson

NUVASIVE 1034 U.S. Patent No. 5,397,364 to Kozak et al.

NUVASIVE 1035 U.S. Patent No. 5,792,044 to Foley et al.



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