UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

INTUITIVE SURGICAL, INC., Petitioner,

v.

ETHICON LLC, Patent Owner.

IPR2019-00880 U.S. Patent No. 7,490,749

DECLARATION OF DR. SHORYA AWTAR



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I. INTRODUCTION

- 1. My name is Dr. Shorya Awtar. I have been retained by counsel for Patent Owner Ethicon LLC ("Ethicon") in the above captioned *inter partes* review to consult with counsel, review documents, form opinions and prepare expert declarations, and be available to testify as to my opinions.
- 2. I understand that Petitioner Intuitive Surgical Inc. ("Intuitive") has asserted that Claims 1 and 3 of U.S. Patent No. 7,490,749 (the "749 Patent") are invalid as anticipated and/or obvious. I have been asked to give expert opinions and testimony related to the issue of the validity of Claims 1 and 3 of the 749 Patent, including the background of the technology at issue, and the scope and content of the prior art.
- 3. My opinions are based on reviewing the relevant portions of the documents listed below:

IS-1001	U.S. Patent No. 7,490,749 to Schall, et al. ("749 Patent")
IS-1002	Excerpts from the Prosecution History of the 749 Patent ("the Prosecution History")
IS-1003	Declaration of Dr. Knodel, including Curriculum Vitae
IS-1004	US Patent Publication No. 2006/0175375 ("Shelton II")
IS-1005	US Patent Publication No. 2005/0178813 ("Swayze")
IS-1006	U.S. Patent No. 8,322,455



IS-1007	Complaint for Patent Infringement, Ethicon LLC, et al. v. Intuitive Surgical, Inc., et al., Case No. 1:18-cv-01325 (D. Del. Aug. 27, 2018)
IS-1010	U.S. Patent No. 5,941,442
IS-1011	U.S. Patent No. 5,865,361
IS-1012	Excerpts from McGraw-Hill Dictionary of Scientific and Technical Terms
Ex. 2010	U.S. Patent No. 5,465,895 (1995)
Ex. 2011	U.S. Patent No. 5,632,432 (1997)
Ex. 2018	Deposition Transcript of Dr. Bryan Knodel (December 13, 2019)

4. The opinions I have formed as explained herein are informed by and based on my consideration of the documents listed above, as well as my own knowledge and experience based upon my work in the relevant field of technology, as discussed below. All statements made herein of my own knowledge are true, and all statements made herein based on information and belief are believed to be



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