

**UNITED STATES PATENT AND TRADEMARK OFFICE**

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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LAM RESEARCH CORP.,

Petitioner

v.

DANIEL L. FLAMM,

Patent Owner

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U.S. Patent No. RE40,264 E

Issued: April 29, 2008

Named Inventor: Daniel L. Flamm

Title: MULTI-TEMPERATURE PROCESSING

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**DECLARATION OF JOSEPH L. CECCHI IN SUPPORT OF PETITION  
FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. RE40,264 E  
UNDER 37 C.F.R. § 1.68**

**DECLARATION FOR SECOND PETITION**

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I, Joseph L. Cecchi, declare as follows:

## **I. INTRODUCTION**

1. I am over 18 years of age and otherwise competent to make this Declaration.

2. I have been asked to provide my views regarding technical issues in connection with the above-captioned *inter partes* review of U.S. Patent No. RE40,264 E (“the ‘264 patent”). I opine only with respect to certain issues that are discussed in this declaration.

## **II. QUALIFICATIONS AND PROFESSIONAL EXPERIENCE**

3. I am currently Dean of the School of Engineering and Professor of Chemical and Biological Engineering at the University of New Mexico (“UNM”). This is my second term as Dean, and the term began in February 2014. I have held my appointment as Professor since joining UNM in 1994.

4. From 2011 to 2012, while on leave from UNM, I served as Provost and Professor of Engineering at the Masdar Institute of Science and Technology in Abu Dhabi, United Arab Emirates.

5. My first appointment as Dean of the School of Engineering extended from 2000 to 2009. From 2004 to 2011, I was Chair of the Board of Directors of the Science and Technology Corp. at UNM, the university’s technology transfer organization responsible for patenting and licensing UNM’s intellectual property.

6. From 1994 until 2000, I was Chair of the Department of Chemical and Nuclear Engineering at UNM. Previously, I was a Lecturer with the rank of Professor in the Department of Chemical Engineering at Princeton University, where I also directed the Graduate Program in Plasma Science and Technology. I was associated with the Plasma Physics Laboratory at Princeton University for twenty-one years, as leader of the Plasma Processing Group (1987-1994); Principal Research Physicist (1984-1994); leader of the Materials Physics Group (1979-1987); Research Physicist (1978-1984); and Staff Physicist (1972-1978).

7. From 1991 to 1994, I was Director of the New Jersey SEMATECH Center of Excellence for Plasma Etching. This organization, which involved four universities and one industrial laboratory, was engaged in state-of-the-art research in plasma processing for semiconductor manufacturing.

8. From 1992 to 2001, I worked on three committees established by the Semiconductor Industry Association (“SIA”) to generate technology “roadmaps” for semiconductor manufacturing. Most recently, from 1998 to 2000, I was a member of the Interconnect Technical Working Group (“TWG”) for the SIA International Technology Roadmap for Semiconductors (“ITRS”).

9. I obtained my Ph.D. in physics from Harvard University in 1972. I also received a Master's degree in physics from Harvard University in 1969, a Bachelor's degree in physics from Knox College in 1968, and a Master's of

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