

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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TOKYO ELECTRON LIMITED  
Petitioners

v.

DANIEL L. FLAMM,  
Patent Owner

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Patent No. RE40,264

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**DECLARATION OF MARK J. KUSHNER, PH.D.**

Tokyo Electron Limited  
**EXHIBIT 1013**  
IPR Petition for

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1. My name is Dr. Mark J. Kushner. I am a professor of Electrical Engineering and Computer Science at the University of Michigan. I understand that my declaration is being submitted in connection with a Petition for *Inter Partes* Review of U.S. Patent No. RE40,264 ('264 patent).

**I. Qualifications, Background, and Experience**

2. I received a Bachelor of Science degree in nuclear engineering (Summa Cum Laude) from the University of California at Los Angeles (UCLA) in 1976. I also simultaneously received a Bachelor of Arts in astronomy from UCLA in 1976.

3. I received a Masters of Science in Applied Physics from the California Institute of Technology in 1977. I also received a PhD in Applied Physics from the California Institute of Technology in 1979.

4. I have authored or co-authored over 320 scientific and technical journal articles. I am listed as an inventor on two U.S. patents.

5. After completing my PhD, I worked at various national laboratories and companies from 1980-1986. I was a physicist at Sandia National Laboratory in the Laser Analytical Spectroscopy Division from 1980-1981, where I focused on microelectronics related plasma etching. I was also a physicist at the Lawrence Livermore National Laboratory in the Advanced Lasers and Laser Isotope

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