

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLIED MATERIALS, INC.  
Petitioners

v.

DEMARAY LLC  
Patent Owner

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Patent No. 7,381,657

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**DECLARATION OF DR. VIVEK SUBRAMANIAN  
IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW  
OF U.S. PATENT NO. 7,381,657**

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