

UNITED STATES PATENT AND TRADEMARK OFFICE

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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*SONY CORPORATION,*  
Petitioner

v.

*RAYTHEON COMPANY,*  
Patent Owner

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**Case IPR2015-01201**

**Patent 5,591,678**

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**DECLARATION OF DAVID ROBINSON  
REGARDING THE ACTUAL REDUCTION TO PRACTICE OF  
U.S. PATENT NO. 5,591,678**

I, David A. Robinson, declare:

1. I am over eighteen years of age and in all respects fully competent to make this Declaration. I have personal knowledge of the facts, as stated herein, and all are true and correct.

2. During the timeframe of 1990-1994, I was employed as an engineer at

the Carlsbad Research Center (CRC) for Hughes Aircraft Company. The CRC was part of the Hughes Microelectronics Center (HMC). During these years, I worked with various CRC personnel, including Ron Finnila, Joe Bendik, Joe Tyra, and Gerard (Jerry) Malloy.

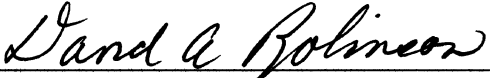
3. During this timeframe, I was aware of the work being done by Ron Finnila, Joe Bendik, and Jerry Malloy at the CRC, including work related to silicon on silicon dioxide on silicon wafers (i.e., SOI wafers).

4. I have reviewed Exhibit 2009, RAY00000185-88, which is an invention disclosure form (“1992 Invention Disclosure”). I signed this document as a witness on November 18, 1992 and it was recorded by Hughes Aircraft on November 20, 1992.

5. I affirm that the signature on the bottom of pages numbered RAY00000186-188 is mine. By signing my name, I affirmed that I had read and understood the 1992 Invention Disclosure. I believed this affirmation to be true at the time of execution, and I have no reason to doubt it now.

I declare under the penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Date: March 7, 2016

  
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David A. Robinson