

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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GOOGLE INC.  
Petitioner

v.

BLACKBERRY LTD.  
Patent Owner

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Patent No. 8,745,149

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**DECLARATION OF DR. DAN R. OLSEN JR.**

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I, Dr. Dan R. Olsen Jr., declare as follows:

## **I. INTRODUCTION**

1. I have been retained by Google Inc. (“Petitioner”) as an independent expert consultant in this proceeding before the United States Patent and Trademark Office (“PTO”) regarding U.S. Patent No. 8,745,149 (“the ’149 patent”) (Ex. 1001). I have been asked to consider whether certain references disclose or suggest the features recited in claims 1-17 of the ’149 patent. My opinions are set forth below.

2. I am being compensated at my rate of \$500 per hour for the time I spend on this matter. My compensation is in no way contingent on the nature of my findings, the presentation of my findings in testimony, or the outcome of this or any other proceeding. I have no other interest in this proceeding.

## **II. BACKGROUND AND QUALIFICATIONS**

3. I have more than 35 years of experience in computer science and human-computer interaction (HCI). I hold a doctorate in Computing and Information from the University of Pennsylvania. For 3 ½ years I was an Assistant Professor of Computer Science at Arizona State University. I then served for 30 years on the faculty of Brigham Young University, retiring as a full professor in 2015. During that time at BYU, I also served as the chair of the Department of Computer Science. I took leave from BYU in 1996 to become the founding

director of the Human Computer Interaction Institute in the School of Computer Science at Carnegie Mellon University. I returned to BYU in 1998. I am currently the CEO of a software startup in educational technology (SparxTeq, Inc).

4. During the course of my academic career, I authored over 70 papers in the field of computer science. The topics on which I have published papers are:

- User Interface Management Systems
- Syntactic representations of user interfaces
- Multi-user interaction across networks
- Induction of interaction behavior from pictures
- Novel interaction techniques using speech and laser pointers
- Interactive machine learning
- Interactive robotics
- Interactive television

5. I currently hold 4 patents in human-computer interaction. I have authored 3 textbooks on the techniques of software design for human-computer interaction.

6. I have had extensive involvement in professional societies, such as the Association for Computing Machinery (ACM), the premiere society in computing. I have served in many offices of ACM's Special Interest Group on Computer

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