IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

United States Patent No: 6,151,493	§	
Inventors: Toyoki Sasakura,	§	Attorney Docket No.:
Kenichi Miyamoto	§	108827-5007-651
Formerly Application No.: 09/000,764	§	
Issue Date: November 21, 2000	§	Customer No.: 28120
Filing Date: December 30, 1997	§	Petitioners: Google Inc.,
Former Group Art Unit: 2749	§	LG Electronics, Inc.,
Former Examiner: Meless Zewdu	§	LG Electronics U.S.A., Inc.,
Patent Owner: Ryujin Fujinomaki	§	LG Electronics Mobilecomm
	§	U.S.A., Inc.

For: DEVICE FOR PROHIBITING UNAUTHORIZED USE OF ELECTRONIC DEVICES

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DECLARATION OF DR. SCHUYLER QUACKENBUSH IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW OF UNITED STATES PATENT NO. 6,151,493

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I, Dr. Schuyler Quackenbush, hereby declare under penalty of perjury:

I. INTRODUCTION

1. I have been retained to provide assistance regarding U.S. Patent No. 6,151,493 ("the '493 patent"). Specifically, I have been asked to consider the validity of claims 1-6 and 8-10 of the '493 patent (the "Challenged Claims"). I have personal knowledge of the facts and opinions set forth in this declaration, and, if called upon to do so, I would testify competently thereto.

2. I am being compensated for my time at my standard consulting rate of $400 per hour. I am also being reimbursed for expenses that I incur during the course of this work. My compensation is not contingent upon the results of my study, the substance of my opinions, or the outcome of any proceeding involving the challenged claims. I have no financial interest in the outcome of this matter or on the pending litigation between Petitioners and Ryujin Fujinomaki.

3. A table of contents and a list of exhibits referenced herein are included above.

II. BACKGROUND AND QUALIFICATIONS

4. I offer statements and opinions on behalf of Petitioners, Google Inc. ("Google"), LG Electronics, Inc., LG Electronics U.S.A, Inc., and LG Electronics Mobilecomm U.S.A., Inc. (collectively "LGE") (all "Petitioners"), generally regarding the validity, novelty, prior art, obviousness considerations, and understand-

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ing of a person of ordinary skill in the art ("POSITA") as it relates to U.S. Patent No. 6,151,493 ("'493 patent"). Attached hereto as Appendix A, is a true and correct copy of my Curriculum Vitae describing my background and experience.

5. I received a B.S. in Electrical Engineering from Princeton University in 1975, and M.S. and Ph.D. in Electrical Engineering from the Georgia Institute of Technology in 1980 and 1985, respectively. While at the Georgia Institute of Technology, I concentrated my research on signal processing.

6. Between 1975 and 1978, I worked for Loral Electronics in Yonkers, NY, where I was employed as a test engineer and was part of a team that designed and built an aircraft-based RADAR (Radio Detection and Ranging) jamming system. Loral Electronics produced airborne electronics systems for the U.S. Air Force. My responsibilities in this position included: assisting the lead engineer in setting up test equipment; assembling custom test equipment; and using this equipment to test items from the production line.

7. From 1978 to 1979, I worked for Diagnostic/Retrieval Systems (DRS), Inc. in Oakdale, NJ, where I was a hardware design engineer. DRS produced electronic SONAR (sound navigation and ranging) systems for the U.S. Navy. My responsibilities in this position included: the design of the transceiver frontends used in the sonar system, which included the processing of the analog signal received by the microphone array, its conversion into a digitized signal, and subsequent filter-

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