UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ROKU, INC.
Petitioner

v.

UNIVERSAL ELECTRONICS INC.
Patent Owner

Case IPR No. IPR2019-01615
U.S. Patent 9,716,853

DECLARATION OF DR. SAMUEL H. RUSS

Mail Stop "PATENT BOARD"
Patent Trial and Appeal Board
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

TABLE OF CONTENTS

I, Samuel H. Russ, declare as follows:

I. INTRODUCTION

1. I have been asked by Roku, Inc. ("Roku") to provide expert opinions in the above-captioned *Inter Partes* Review proceeding involving U.S. Patent No. 9,716,853 ("the '853 patent"), which is entitled "System And Method For Optimized Appliance Control."

2. I am being compensated by Roku on an hourly basis for the time I spend in connection with this proceeding. My compensation is not dependent in any way on the substance of my opinions or in the outcome of this proceeding.

II. QUALIFICATIONS

3. My qualifications for forming the opinions set forth in this declaration are summarized here and explained in more detail in my curriculum vitae, which is attached as Exhibit 1004. Exhibit 1004 also includes a list of my publications and the cases in which I have testified at deposition, hearing, or trial during the past four years.

4. I received a Bachelor's degree in Electrical Engineering from the Georgia Institute of Technology ("Georgia Tech") in 1986 and a Ph.D. in Electrical Engineering from Georgia Tech in 1991.

5. From 2007 to the present, I have been a member of the faculty of the University of South Alabama as an Assistant and Associate Professor in the

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.