

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

**ERICSSON INC. AND TELEFONAKTIEBOLAGET
LM ERICSSON,
Petitioners**

v.

**INTELLECTUAL VENTURES II LLC
Patent Owner**

Case IPR2015-01664
Patent No. 7,787,431

DECLARATION OF KENNETH ZEGER, PH.D.

Intellectual Ventures II LLC

Exhibit 2001

ERICSSON v. IV II

IPR2015-01664

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I, Kenneth Zeger, do hereby declare:

I. INTRODUCTION

1. I have been retained by Intellectual Ventures II LLC (“Patent Owner” or “IV”) as an expert witness with respect to my opinions concerning Ericsson’s Petition for *inter partes* review of U.S. Patent No. 7,787,431 (“the ‘431 patent”).

2. In preparing my declaration, I have relied upon my education, knowledge and experience. I have also considered the materials and items described in this declaration.

II. PROFESSIONAL BACKGROUND AND QUALIFICATIONS

3. I received a Bachelor’s degree in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology in 1984.

4. I received a Master of Science degree in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology in 1984.

5. I received a Master of Arts degree in Mathematics from the University of California, Santa Barbara, CA in 1989.

6. I received a Ph.D. degree in Electrical and Computer Engineering from the University of California, Santa Barbara, CA in 1990.

7. I am currently a Full Professor of Electrical and Computer Engineering at the University of California, San Diego (UCSD). I have held this position since 1998, having been promoted from Associated Professor after two years at UCSD. I have been an active member of the UCSD Center for Wireless Communications for 18 years. I teach courses full-time at UCSD in the fields of Electrical and Computer Engineering, and specifically in subfields including communications and information theory at the undergraduate and graduate levels. Prior to my employment at UCSD, I taught and conducted research as a faculty member at the University of Illinois, Urbana-Champaign for four years, and at the University of Hawaii for two years.

8. My twenty-plus years of industry experience includes consulting work for the United States Department of Defense as well as for private companies such as Xerox, Nokia, MITRE, ADP, and Hewlett-Packard. The topics upon which I provide consulting expertise include data communications for wireless networks, digital communications, information theory, computer software, and mathematical analyses.

9. I have authored approximately 70 peer-reviewed journal articles, the majority of which are on the topic of communications, information theory, or signal processing. I have also authored over 100 papers at various conferences and symposia over the past twenty-plus years, such as the: IEEE International

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