UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC., MICROSOFT COROPORATION, MICROSOFT MOBILE

OY, and

MICROSOFT MOBILE INC. (F/K/A/ NOKIA INC.),

Petitioner

v.

EVOLVED WIRELESS LLC,

Patent Owner.

Case IPR2016-01228

Case IPR2016-01229

Patent 7,881,236 B2

Declaration of Todor Cooklev Ph.D.

Apple v. Evolved Wireless IPR2016-01229 Exhibit 2011

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I. INTRODUCTION

 My name is Todor Cooklev. I have been retained by Evolved Wireless LLC ("Evolved Wireless" or "Evolved").

2. I have been asked to prepare this Declaration in connection with Case Nos. IPR2016-01228 and IPR2016-01229 for *inter partes* review of U.S. Patent No. 7,881,236 ("the '236 patent') and the Declaration of Dr. Jonathan Wells ("the Wells Declaration"). I understand that Dr. Jonathan Wells has been retained by Microsoft Corporation, Microsoft Mobile Oy, Microsoft Mobile, Inc., and Apple, Inc. (collectively "Petitioners") to determine if the '236 patent's claims are invalid. *See* Wells Declaration ¶ 1. I have been asked to consider the opinions of Dr. Wells, and provide my opinions regarding the validity of the '236 patent's claims.

3. I base my Declaration on information currently available to me. I reserve the right to continue my investigation. I further reserve the right to expand, modify, and/or supplement this Declaration and my opinions as additional information becomes available to me.

4. In this Declaration, I cite to various documents and testimony. These citations are meant to be exemplary, and not exhaustive. Citations to documents or testimony are not intended to signify that my conclusions or opinions are limited to the cited sources, or supported by the cited sources only.

II. QUALIFICATIONS

5. My qualifications are stated more fully in my *Curriculum Vitae*, a copy of which is attached hereto as Appendix 1.

6. I have a Ph.D. in electrical engineering from Tokyo Institute of Technology in 1995. Currently I work as the Founding Director of the Wireless Technology Center at Indiana University-Purdue University Fort Wayne and hold an endowed faculty position as Harris Chair of Wireless Communication and Applied Research.

7. I have received research funding from the National Science Foundation (NSF), the U.S. Air Force Research Laboratory, the Defense Advanced Research Projects Agency (DARPA), and several major companies such as Raytheon, Harris (formerly ITT), France Telecom, and other smaller technology companies.

8. I am a named inventor on thirty (30) patents issued in the United States relating to the design of integrated circuits for wireless communications systems. I have also authored and co-authored more than 100 peer-reviewed articles. (A list of my publications and patents appears in my *Curriculum Vitae* attached as Appendix 1.)

9. I received a 1994 Asia-Pacific Conference on Circuits and Systems Best Paper Award and a 2012 IEEE Standards Association award for "outstanding contributions to IEEE 802.11aa."

10. I have experience working on the design of integrated circuits ("ICs") for wireless communication systems implementing algorithms of the types that are at issue in this investigation.

11. I have been actively involved in professional organizations, in particular relevant to standards for wireless communications systems. I have served the IEEE Standards Association in several capacities, including as the first Chair of the IEEE Standards Education Committee during 2006-2007.

12. I have served on standards committees, such as IEEE 802 and 3GPP, and have directly contributed to the development of several standards for communications systems. I have chaired a number of standards committee meetings and served in other leadership roles. In particular, I have attended meetings of 3GPP, and have prepared documents submitted to 3GPP.

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