UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MICROSOFT CORPORATION,
Petitioner,

v.

UNILOC 2017 LLC,
Patent Owner.

IPR2019-00973
U.S. Patent No.: 7,075,917
Issued: Jul. 11, 2006
Application No.: 09/973,312
Filed: Oct. 9, 2001

Title: WIRELESS NETWORK WITH A
DATA EXCHANGE ACCORDING TO THE ARQ METHOD

DECLARATION OF HARRY V. BIMS

MICROSOFT CORP.
EXHIBIT 1003

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I, Harry V. Bims, do hereby declare as follows:

I. INTRODUCTION AND ENGAGEMENT

1. I have been retained as an independent expert on behalf of Microsoft Corporation in connection with the above-captioned Petition for *Inter Partes* Review ("IPR") to provide my analyses and opinions on certain technical issues related to U.S. Patent No. 7,075,917 (hereinafter "the '917 Patent").

2. I am being compensated at my usual and customary rate for the time I spent in connection with this IPR. My compensation is not affected by the outcome of this IPR.

3. Specifically, I have been asked to provide my opinions regarding whether claims1-3 and 9-10 (each a "Challenged Claim" and collectively the "Challenged Claims") of the '917 Patent would have been obvious to a person having ordinary skill in the art ("POSITA") as of October 11, 2000. It is my opinion that each Challenged Claim would have been obvious to a POSITA after reviewing the prior art discussed herein.

II. BACKGROUND AND QUALIFICATIONS

4. In formulating my opinions, I have relied upon my training, knowledge, and experience in the relevant art. A copy of my curriculum vitae is appended to this declaration as Appendix A and provides a description of my professional experience, including my academic and employment history,

publications, conference participation, awards and honors, and more. The following is a brief summary of my relevant qualifications and professional experience.

5. I have worked extensively in the field of digital communications. I have studied telecommunications and systems engineering since approximately 1981. Further, I have over twenty-five (25) years of industry experience in telecommunications, including wireless communications. During this period, I have designed and implemented various products that involve technologies related to the subject matter of the '917 Patent. In addition, I am a named inventor on twenty-two (22) U.S. patents relating to communications networks and mobile device applications, including automatic repeat request technology ("ARQ").

6. I received a BS in Computer and Systems Engineering from Rensselaer Polytechnic Institute in 1985. In 1988, I received an MS in Electrical Engineering from Stanford University. In 1993, I received a Ph.D. in Electrical Engineering, also from Stanford University. As a graduate student at Stanford University, I studied the principles of wired and wireless communications theory, including physical layer and medium access control layer protocols, data modulation and demodulation, signal processing, channel estimation, equalization, filtering, precoding, synchronization, and trellis coding. My graduate research focused on a method for improving the reliability of wireless communication links

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