UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,
Petitioner

v.

MPH TECHNOLOGIES OY,
Patent Owner

Case IPR2019-00822
U.S. Patent No. 8,346,949

DECLARATION OF DAVID GOLDSCHLAG, PH.D.

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I, Dr. David Goldschlag, declare as follows:

1. I have been retained on behalf of Apple Inc. for the above-captioned *inter partes* review proceeding. I understand that this proceeding involves U.S. Patent No. 8,346,949 ("the '949 patent"), titled "Method and System for Sending a Message Through a Secure Connection," and that the '949 patent is currently assigned to MPH Technologies OY.

2. I am over 18 years of age. I have personal knowledge of the facts stated in this Declaration and could testify competently to them if asked to do so.

3. I have reviewed and am familiar with the specification of the '949 patent issued on January 1, 2013. I understand that the '949 patent has been provided as Ex. 1001. I will cite to the specification using the following format: ('949 patent, 1:1-10.) This example citation points to the '949 patent specification at column 1, lines 1-10.

4. I have also reviewed and am familiar with the following documents and materials:

- "RFC3104: RSIP Support for End-to-end IPsec," by Gabriel Montenegro and Michael Borella ("RFC3104"). I understand that RFC3104 has been provided as Ex. 1004.
- U.S. Patent No. 7,032,242 to Grabelsky *et al.* ("Grabelsky"). I understand that Grabelsky has been provided as Ex. 1005.

- "Analysis of the SSL 3.0 Protocol," by David Wagner and Bruce Schneier ("Wagner"). I understand that Wagner has been provided as Ex. 1006.
- "RFC2401: Security Architecture for the Internet Protocol," by Stephen Kent and Randall Atkinson ("RFC2401"). I understand that RFC2401 has been provided as Ex. 1015.
- "RFC2402: IP Authentication Header," by Stephen Kent and Randall Atkinson ("RFC2402"). I understand that RFC2402 has been provided as Ex. 1016.
- "RFC2406: IP Encapsulating Security Payload (ESP)," by Stephen Kent and Randall Atkinson ("RFC2406"). I understand that RFC2406 has been provided as Ex. 1017.
- "RFC2409: The Internet Key Exchange (IKE)," by Dan Harkins and Dave Carrel ("RFC2409"). I understand that RFC2409 has been provided as Ex. 1018.
- "RFC3102: Realm Specific IP: Framework," by Michael Borella *et al.* ("RFC3102"). I understand that RFC3102 has been provided as Ex. 1019.
- Sheila Frankel, Demystifying the IPsec Puzzle ("Frankel"). I understand that Frankel has been provided as Ex. 1011.

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