UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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MICROSOFT CORPORATION,
Petitioner,

v.

HYPERMEDIA NAVIGATION LLC,
Patent Owner.

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DECLARATION OF PROFESSOR LOREN TERVEEN REGARDING
U.S. PATENT NOS. 7,424,523; 9,083,672; AND 9,772,814

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DECLARATION OF PROFESSOR LOREN TERVEEN

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I, Loren Terveen, 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 *Inter Partes* Reviews ("IPRs") of the above-identified patents and specifically in order to provide my analyses and opinions on certain technical issues related to U.S. Patent Nos. 7,424,523; 9,083,672; and 9,772,814 (the "'523 patent," "'672 patent," and "'814 patent," respectively and, collectively, the "challenged patents").

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 claims 6-7 and 11-12 of the '523 patent; claims 14, 15, 18, and 19 of the '672 patent; and claims 14, 15, 16, 17, 18, and 20 of the '814 patent (each a "Challenged Claim" and collectively the "Challenged Claims") would have been found in the prior art or obvious to a person having ordinary skill in the art ("POSITA") as of October 1998. It is my opinion that each Challenged Claim would have been found in the cited prior art or at least obvious to a POSITA after reviewing the prior art discussed herein.

DECLARATION OF PROFESSOR LOREN TERVEEN

II. BACKGROUND AND QUALIFICATIONS

4.   I am a professor in the Department of Computer Science and

Engineering at the University of Minnesota, Twin Cities. I hold 10 patents on a

broad variety of topics in web search, information management, intelligent

interfaces, and graphical user interfaces; my specialties include Human-Computer

Interaction, Social Computing, Recommender Systems, Online Communities, User

Interface Design, Graphical User Interfaces, Location-Based Systems, and Web

search and information management. I consider myself an expert in these areas. 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.

5.   I received my Ph.D. in Computer Sciences from the University of

Texas, Austin, in 1991, and then worked at AT&T Bell Labs from 1991-2002, as

first a member and then a principal member of the technical staff. During my time

at Bell Labs I worked on numerous software systems with graphical user

interfaces. Beginning by 1995, I spent a number of years developing web-based

systems and user interfaces. In all these projects, I was involved with all aspects of

the system, from overall design and architecture, to interface design and

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