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Filed on behalf of The Walt Disney Company, Disney Streaming Services LLC,  
and Hulu LLC.

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**UNITED STATES PATENT AND TRADEMARK OFFICE**

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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The Walt Disney Company, Disney Streaming Services LLC, and Hulu LLC,

Petitioner

v.

WAG Acquisition LLC,

Patent Owner

IPR2022-01227

**DECLARATION OF HENRY HOUH, PH.D.  
REGARDING CLAIMS 1-12  
OF U.S. PATENT NO. 9,762,636**

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I, Henry Houh, Ph.D., declare as follows:

## **I. INTRODUCTION**

1. My name is Henry Houh, and I have been retained by counsel for The Walt Disney Company, Disney Streaming Services LLC, and Hulu LLC (collectively “Petitioner”) to analyze U.S. Patent No. 9,762,636 (“’636 patent”) (EX1001) and to provide my opinions regarding the patentability of claims 1-12 of the ’636 patent.

2. I am being compensated at my normal consulting rate of \$650 per hour for my time. My compensation is not contingent on the outcome of this proceeding, or of any proceedings relating to the ’636 patent.

## **II. BACKGROUND AND QUALIFICATIONS**

3. My professional career has spanned more than 25 years. As set forth in my curriculum vitae, a copy of which is attached to this report as Appendix A, during these years I have gained extensive experience in web content delivery, web site architectures, distributed network applications, data caching, multi-media streaming, and networking and communication protocols.

4. I was awarded a Ph.D. degree in Electrical Engineering and Computer Science in February 1998 from Massachusetts Institute of Technology (MIT). I

also received a Master of Science (M.S.) in Electrical Engineering and Computer Science (February 1991), a Bachelor of Science in Electrical Engineering and Computer Science (June 1989) and a Bachelor of Science in Physics (February 1990) from MIT.

5. I defended and submitted my Ph.D. thesis, titled “Designing Networks for Tomorrow's Traffic” in January 1998. As part of my thesis research, I analyzed local-area and wide-area data flows to show a more efficient method for routing content (including email, web pages, and streaming media such as voice and video) in a network, based on traffic patterns at the time.

6. My research and work experience in multimedia content delivery over the Internet, streaming media over the Internet, networking, and network architecture dates back to the popularization of the Web in the early 1990s and coincides with when I started my doctoral research at MIT. After returning full time to MIT for graduate school after completing an internship at AT&T Bell Laboratories, I worked as a research assistant in the Telemedia Network Systems (TNS) group at the Laboratory for Computer Science at MIT. The TNS group built a high speed gigabit network and applications which ran over the network, such as remote video capture, processing, and display on computer terminals. I designed

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