UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

COMCAST CABLE COMMUNICATIONS, LLC

Petitioner

v.

REALTIME ADAPTIVE STREAMING, LLC

Patent Owner

Case IPR2019-00684 Patent No. 8,934,535

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 8,934,535

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LIST OF EXHIBITS

Exhibit	Description
1001	U.S. Patent No. 8,934,535 to Fallon <i>et al.</i> ("535 Patent")
1002	Prosecution File History for the '535 Patent
1003	Expert Declaration of James A. Storer
1004	Japanese Patent Application Publication No. H11331305 to Imai <i>et al.</i> ("Imai").
1005	Certified English Translation of Imai
1006	U.S. Patent No. 6,507,611 to Imai et al. ("Imai '611")
1007	U.S. Patent No. 5,675,789 to Ishii et al. ("Ishii")
1008	Excerpt from Andreas Spanias <i>et al.</i> , Audio Signal Processing and Coding (John Wiley & Sons, Inc., 2007)
1009	Excerpt from Raymond Westwater <i>et al.</i> , Real-Time Video Compression Techniques and Algorithms (Kluwer Academic Publishers, 1997)
1010	Excerpt from David Salomon, A Guide to Data Compression Methods (Springer-Verlag New York, Inc., 2002)
1011	International PCT Application Publication WO 00/51243 to Park
1012	U.S. Patent No. 5,873,065 to Akagiri et al.
1013	Memorandum Opinion and Order, <i>Realtime Data, LLC v. Rackspace US, Inc. et al.</i> , No. 6:16-CV-00961, Dkt. 183 (E.D. Tex. June 14, 2017)
1014	Memorandum Opinion and Order, <i>Realtime Data, LLC v. Actian</i> <i>Corp. et al.</i> , No. 6:15-CV-00463, Dkt. 362 (E.D. Tex. July 28, 2016)
1015	U.S. Patent No. 6,195,024 to Fallon
1016	Notice of Interested Parties, <i>Realtime Adaptive Streaming, LLC v.</i> <i>Hulu LLC</i> , No. 2:17-CV-07611, Dkt. 18 (C.D. Cal. Oct. 24, 2017)

I. INTRODUCTION

Petitioner Comcast Cable Communications, LLC ("Petitioner") requests *inter partes* review of Claims 1-14 of U.S. Patent No. 8,934,535 (Ex. 1001). The '535 Patent refers to methods for compressing data with an asymmetric data compressor. According to the '535 Patent, these techniques aim to increase the storage/retrieval bandwidth of mass storage devices which traditionally suffer from "profound read/write data rate limitations" that "severely limit" data-dependent applications. Ex. 1001 at 2:53-61.

But the techniques of the '535 Patent were known in the prior art well before the priority date of the '535 Patent. Specifically, to obtain allowance of independent Claim 1, the Applicant added the feature of using "asymmetric data compression" to differentiate from anticipatory prior art. Ex. 1002 at 435, 411. Asymmetric compression algorithms and the ability to select between compression algorithms, however, were widely used in the compression field and extensively described in the prior art. Ex. 1003 at 74-78; *see, e.g.,* Ex. 1005; Ex. 1007.

II. GROUNDS FOR STANDING

Petitioner certifies that the '535 Patent is eligible for *inter partes* review. Petitioner further certifies that it is not barred or estopped from requesting this *inter partes* review on the grounds identified herein.

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