

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GOOGLE LLC,
Petitioner,

v.

REALTIME ADAPTIVE STREAMING LLC,
Patent Owner.

IPR2019-01035
Patent 9,769,477 B2

Before GEORGIANNA W. BRADEN, KEVIN W. CHERRY, and
KAMRAN JIVANI, *Administrative Patent Judges*.

BRADEN, *Administrative Patent Judge*.

DECISION
Institution of *Inter Partes* Review
37 C.F.R. § 314(a)

I. INTRODUCTION

A. Background

Google LLC¹ (“Petitioner”) filed a Petition requesting an *inter partes* review of claims 1, 3, 4, 7, 9, 16, 17, and 20–22 of U.S. Patent No. 9,769,477 B2 (Ex. 1001, “the ’477 patent”). Paper 1 (“Pet.”). Realtime Adaptive Streaming LLC² (“Patent Owner”) filed a Preliminary Response. Paper 6 (“Prelim. Resp.”).

Under the statute, an *inter partes* review may not be instituted unless the information presented in the petition and the preliminary response shows “there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.” 35 U.S.C. § 314(a). Moreover, the Supreme Court has held that a decision under § 314 may not institute review on fewer than all claims challenged in the petition. *SAS Inst., Inc. v. Iancu*, 138 S. Ct. 1348, 1355–56 (2018); *see also PGS Geophysical AS v. Iancu*, 891 F.3d 1354, 1360 (Fed. Cir. 2018) (interpreting the statute to require “a simple yes-or-no institution choice respecting a petition, embracing all challenges included in the petition”).

After considering the Petition, the Preliminary Response, and associated evidence, we determine Petitioner has satisfied the threshold requirement set forth in 35 U.S.C. § 314(a). Thus, based on the information

¹ Petitioner identifies itself and YouTube LLC as the real parties-in-interest pursuant to 37 C.F.R. § 42.8. Pet. 1. Petitioner also indicates that Google LLC is a subsidiary of XXVI Holdings Inc., which itself is a subsidiary of Alphabet Inc., and further indicates that XXVI Holdings Inc. and Alphabet Inc. are not real parties-in-interest.

² Patent Owner identifies only itself as the real party-in-interest pursuant to 37 C.F.R. § 42.8. Paper 4, 1.

presented, and under *SAS* and *PGS Geophysical AS*, we institute an *inter partes* review of claims 1, 3, 4, 7, 9, 16, 17, and 20–22 of the '477 patent.

II. BACKGROUND

A. *Related Proceedings*

Petitioner informs us of multiple pending district court proceedings involving the '477 patent, some of which involve Petitioner, and three pending *inter partes* review proceedings: IPR2018-01187; IPR2018-01630; and IPR2019-00786. Pet. 1–3. Patent Owner informs us of a prior pending *inter partes* review petition challenging the '477 patent, IPR2018-01413. Prelim. Resp. 4. We note IPR2018-01413 was terminated prior to the issuance of a decision on institution. *See* IPR2018-01413, Paper 10.

B. *Background of Technology and the '477 Patent*

The '477 patent was filed on October 6, 2015, and is titled “Video Data Compression Systems.” Ex. 1001, Title. It describes systems and methods directed to a “compressing and decompressing based on the actual or expected throughput (bandwidth) of a system employing data compression and a technique of optimizing based upon planned, expected, predicted, or actual usage.” Ex. 1001, 7:66–8:3, 9:27–31. The '477 patent states that “dynamic modification of compression system parameters so as to provide an optimal balance between execution speed of the algorithm (compression rate) and the resulting compression ratio, is highly desirable.” *Id.* at 1:64–67. The '477 patent also states that it seeks to “provide[] a desired balance between execution speed (rate of compression) and efficiency (compression ratio).” *Id.* at 8:24–27. For example, where the speed of the encoder causes a “bottleneck” because “the compression system cannot maintain the required or requested data rates,” “then the controller will command the data

hard disk).” *Id.* at 13:35–45. According to the ’477 patent, depending on the access profile, it “is preferable to utilize an asymmetrical algorithm that provides a slow compression routine and a fast decompression routine so as to provide an increase in the overall system performance as compared to performance that would be obtained using a symmetrical algorithm.” *Id.* at 12:23–28. The ’477 patent notes that symmetric routines “compris[e] a fast compression routine.” *Id.* at 14:40–43. In one embodiment, the ’477 patent discloses a controller “tracks and monitors the throughput . . . of the data compression system 12.” *Id.* at 10:54–57. When the throughput of the system falls below a predetermined threshold, the system generates control signals to enable/disable different compression algorithms. *Id.* at 10:55–58.

C. Illustrative Claims

As noted above, Petitioner challenges claims 1, 3, 4, 7, 9, 16, 17, and 20–22, with claim 1 and 20 being independent. Challenged independent claims 1 and 20 are reproduced below:

1. A system, comprising:
a plurality of different asymmetric data compression encoders,
wherein each asymmetric data compression encoder of the
plurality of different asymmetric data compression encoders
is configured to utilize one or more data compression
algorithms, and
wherein a first asymmetric data compression encoder of the
plurality of different asymmetric data compression encoders
is configured to compress data blocks containing video or
image data at a higher data compression rate than a second
asymmetric data compression encoder of the plurality of
different asymmetric data compression encoders; and
one or more processors configured to:
determine one or more data parameters, at least one of the
determined one or more data parameters relating to a

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.