

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GOOGLE LLC
Petitioner

v.

REALTIME ADAPTIVE STREAMING LLC
Patent Owner

Patent No. 9,769,477

**DECLARATION OF JEFFREY J. RODRIGUEZ, PH.D.
IN SUPPORT OF PETITION FOR INTER PARTES REVIEW OF
U.S. PATENT NO. 9,769,477**

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	BACKGROUND AND QUALIFICATIONS.....	2
III.	MATERIALS CONSIDERED AND SUMMARY OF OPINIONS.....	7
IV.	PERSON OF ORDINARY SKILL IN THE ART	9
V.	TECHNICAL BACKGROUND	10
	A. Video Data Coding.....	11
	B. MPEG-1, -2, -4, and H.263 Coding Standards	15
	C. Video Coding for Transmission through Communications Channel.....	16
VI.	THE '477 PATENT	17
VII.	CLAIM CONSTRUCTION	23
VIII.	OVERVIEW OF THE PRIOR ART	24
	A. <i>Brooks</i> (Ex. 1006).....	24
IX.	THE PRIOR ART DISCLOSES ALL OF THE FEATURES OF CLAIMS 1, 3, 4, 7, 9, 16, 17, and 20–22 OF THE '477 PATENT	30
	A. <i>Brooks</i> Discloses the Features of Claims 1, 3, 4, 7, 9, 16, 17, and 20–22	30
	1. Claim 1	30
	a) “A system comprising:”	30
	b) “a plurality of different asymmetric data compression encoders,”	33
	c) “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”	50

d)	“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”	54
e)	“one or more processors configured to:”	59
f)	“determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel measured in bits per second; and”	60
g)	“select one or more asymmetric data compression encoders from among the plurality of different asymmetric data compression encoders based upon, at least in part, the determined one or more data parameters.”	66
2.	Claim 3	72
a)	“The system of claim 1, wherein the throughput of the communications channel comprises: an estimated throughput of the communications channel.”	72
3.	Claim 4.....	73
a)	“The system of claim 1, wherein the throughput of the communications channel comprises: an expected throughput of the communications channel.”	73
4.	Claim 7.....	74
a)	“The system of claim 1, wherein at least one of the determined one or more data parameters comprises: a resolution of the data blocks containing video or image data.”	74

5.	Claim 9	76
	a) “The system of claim 1, wherein at least one of the determined one or more data parameters comprises: an attribute or a value related to a format or a syntax of video or image data contained in the data blocks containing video or image data.”	76
6.	Claim 16	77
	a) “The system of claim 1, wherein the selected one or more asymmetric data compression encoders are utilized to compress the data blocks containing video or image data to create one or more compressed data blocks,”	77
	b) “and wherein a descriptor indicating the selected one or more asymmetric data compression encoders is included with the one or more compressed data blocks.”	78
7.	Claim 17	79
	a) “The system of claim 1, wherein at least one of the determined one or more data parameters comprises: a video or image data profile.”	79
8.	Claim 20	81
	a) “A system, comprising:”	81
	b) “a plurality of video data compression encoders;”	82
	c) “wherein at least one of the plurality of video data compression encoders is configured to utilize an asymmetric data compression algorithm, and”	82
	d) “wherein at least one of the plurality of video data compression encoders is configured to utilize an arithmetic data compression algorithm,”	82

e)	“wherein a first video data compression encoder of the plurality of video data compression encoders is configured to compress at a higher compression ratio than a second data compression encoder of the plurality of data compression encoders; and”	83
f)	“one or more processors configured to:”	84
g)	“determine one or more data parameters, at least one of the determined one or more data parameters relating to a throughput of a communications channel; and”	84
h)	“select one or more video data compression encoders from among the plurality of video data compression encoders based upon, at least in part, the determined one or more data parameters.”	84
9.	Claim 21	84
a)	“The system of claim 20, wherein the throughput of the communications channel comprises: an estimated or expected throughput of the communications channel.”	84
10.	Claim 22	85
a)	“The system of claim 20, wherein the selected one or more video data compression encoders are configured to compress one or more data blocks containing video data for different data transmission rates measured in bits per second to produce a plurality of compressed data blocks.”	85
B.	<i>Brooks</i> Discloses or Suggests the Features of Claims 1, 3, 4, 7, 9, 16, 17, and 20–22	87
X.	CONCLUSION	95

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