PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matthias Grundmann	01/23/2009
Vivek Kwatral	01/23/2009
Mei Han	01/23/2009

RECEIVING PARTY DATA

Name:	Google Inc.
Street Address:	1600 Amphitheatre Parkway
Internal Address:	Building 41
City:	Mountain View
State/Country:	CALIFORNIA
Postal Code:	94043

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12355494

CORRESPONDENCE DATA

Fax Number: (650)938-5200

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 415.875.2484

Email: bhoffman@fenwick.com

Correspondent Name: Brian M. Hoffman
Address Line 1: Fenwick & West LLP

Address Line 2: 555 California Street, 12th Floor
Address Line 4: San Francisco, CALIFORNIA 94104

ATTORNEY DOCKET NUMBER: 24207-14870

NAME OF SUBMITTER: Brian Hoffman

Total Attachments: 3

PATENT REEL: 022180 FRAME: 0650

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> PATENT REEL: 022180 FRAME: 0651

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Google Inc.**, a Delaware corporation, having a place of business at 1600 Amphitheatre Parkway, Building 41, Mountain View, California 94043 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

- 1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(a) and entitled CONTENT-AWARE VIDEO RESIZING USING DISCONTINUOUS SEAM CARVING ("APPLICATION"), which:
 - was filed on January 16, 2009, and now bears U.S. application serial number 12/355,494.
 - 2. The entire worldwide right, title, and interest in and to:
- (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

Case Docket No.: 24207-14870

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24207/14870/SF/5250712.1

PATENT REEL: 022180 FRAME: 0652

Title:
Filed:
Application No.:

Content-Aware Video Resizing Using Discontinuous Seam Carving January 16, 2009

12/355,484

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

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Name and Signature	Date of Signature	
Acologia	Q((ZZ), ,2009	
Matthias Crundmann	The state of the s	
Name and Signature	Date of Signature	
	,2009	
Vivek Kwatral		
Name and Signature	Date of Signature	
	,2009	
Mei Han		

Case Docket No.: 24207-14870

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Content-Aware Video Resizing Using Discontinuous Seam Carving

Filed: Application No.: January 16, 2009 12/355,484

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Name and Signature	Date of Signature	
	,2009	
Matthias Grundmann		
Name and Signature	Date of Signature	
Vivatis	Jan 23 ,2009	
Vivek Kwatrak		
Name and Signature	Date of Signature	
Mei Han	Jan 23, 2009	
Mei Han		

Case Docket No.: 24207-14870

RECORDED: 01/30/2009

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24207/14870/SF/5250712.1

REEL: 022180 FRAME: 0654