502578697 11/21/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2624683

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | |
|-----------------------|----------------|--|--|--|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | |

CONVEYING PARTY DATA

| Name | Execution Date | | |
|-------------------|----------------|--|--|
| MINJE KIM | 11/18/2013 | | |
| PARIS SMARAGDIS | 11/18/2013 | | |
| GAUTHAM J. MYSORE | 11/20/2013 | | |

RECEIVING PARTY DATA

| Name: | ADOBE SYSTEMS INCORPORATED |
|-----------------|----------------------------|
| Street Address: | 345 PARK AVENUE |
| City: | SAN JOSE |
| State/Country: | CALIFORNIA |
| Postal Code: | 95110-2704 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | | | | | |
|---------------------|----------|--|--|--|--|--|
| Application Number: | 14085650 | | | | | |

CORRESPONDENCE DATA

Fax Number: (509)755-7252 **Phone**: 5097557262

Email: connelly@wolfe-sbmc.com

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

Correspondent Name: WOLFE-SBMC
Address Line 1: 601 W. MAIN AVE.
Address Line 2: SUITE 1300

Address Line 4: SPOKANE, WASHINGTON 99201

| ATTORNEY DOCKET NUMBER: 3670US01 NAME OF SUBMITTER: WILLIAM J. BREEN, III Signature: /William J. Breen, III/ | | |
|--|-------------------------|-------------------------|
| | Signature: | /William J. Breen, III/ |
| ATTORNEY DOCKET NUMBER: 3670US01 | NAME OF SUBMITTER: | WILLIAM J. BREEN, III |
| | ATTORNEY DOCKET NUMBER: | 3670US01 |

PATENT 502578697 REEL: 031653 FRAME: 0537

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| Date: | 11/21/2013 |
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| Total Attachments: 6 source=3670US01_ExecutedAssignment#p source=3670US01_ExecutedAssignment#p source=3670US01_ExecutedAssignment#p source=3670US01_ExecutedAssignment#p source=3670US01_ExecutedAssignment#p source=3670US01_ExecutedAssignment#p | page2.tif page3.tif page4.tif page5.tif |

PATENT REEL: 031653 FRAME: 0538

ASSIGNMENT

Whereas I, the ASSIGNOR herein,

Minje Kim

301 W. Curtis Rd., Apt. 6-203

Savoy, IL 61874, USA

have invented IRREGULAR PATTERN IDENTIFICATION USING LANDMARK BASED

CONVOLUTION (DOCKET NO. 3670US01), described, illustrated, and claimed in an application for

Letters Patent in the United States of America.

WHEREAS, ADOBE SYSTEMS INCORPORATED, the ASSIGNEE herein, is a corporation

organized an existing under the laws of the State of Delaware, having a place of business at 345 Park

Avenue, San Jose, California 95110-2704, USA, desires to acquire the entire right, title and interest in and

to said inventions, applications and Letters Patent to be granted and issued thereon;

NOW, THEREFORE, I, the said ASSIGNOR, have assigned and do hereby assign, transfer and

set over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said

inventions and all improvements thereon, in and to said patent application for Letters Patent thereon, in

and to patent applications pertaining to or based upon said inventions and applications, including

divisional and continuing applications and continuations-in-part, and in and to any and all Letters Patent

which may be granted and issued on said inventions and applications, or any of them, not only for, to and

in the United States of America, its territories and possessions, but for, to and in all countries foreign

thereto, together with and including all priority rights based upon any and all applications in the United

States of America covered by this Assignment.

And for the above-named considerations, I do hereby agree that I will, at the request of said

ASSIGNEE, execute any and all applications for Letters Patent for said inventions and any and all other

papers and documents and do all other and further lawful acts that said ASSIGNEE may deem necessary

or desirable to obtain Letters Patent on said inventions, to secure the grant of such Letters Patent and to

perfect and vest in the ASSIGNEE the entire right, title and interest in the inventions, applications and

Letters Patent.

And for the above-named considerations, I do hereby authorize and empower the ASSIGNEE, its

successors and assigns, to apply for and obtain, in its or their own names, Letters Patent for the said

PATENT

inventions before competent International Authorities and in any and all countries foreign to the United States in which applications for Letters Patent can be so made or Letters Patent so obtained.

Signed:

Nov 18, 2013 Date

ASSIGNMENT

Whereas I, the ASSIGNOR herein,

Paris Smaragdis

1109 S. Douglas Ave. Urbana, IL 61801, USA

have invented IRREGULAR PATTERN IDENTIFICATION USING LANDMARK BASED

CONVOLUTION (DOCKET NO. 3670US01), described, illustrated, and claimed in an application for

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PATENT

| States in which applications for Letters Patent can be so made or Letters Patent so obtained. | | | | | | | |
|---|--------------|--|--|--|--|--|--|
| | | | | | | | |
| Signed: | | | | | | | |
| | | | | | | | |
| / Paris Smaraldis/ | Nov 18, 2013 | | | | | | |
| Paris Smaragdis | Date | | | | | | |

inventions before competent International Authorities and in any and all countries foreign to the United

PATENT Page 2 of 2 REEL: 031653 FRAME: 0542

ASSIGNMENT

Whereas I, the ASSIGNOR herein,

Gautham J. Mysore

425 1st St., Unit 4002

San Francisco, CA 94105, USA

Have invented IRREGULAR PATTERN IDENTIFICATION USING LANDMARK BASED

CONVOLUTION (DOCKET NO. 3670US01), described, illustrated, and claimed in an application for

Letters Patent in the United States of America.

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or desirable to obtain Letters Patent on said inventions, to secure the grant of such Letters Patent and to

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Letters Patent.

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successors and assigns, to apply for and obtain, in its or their own names, Letters Patent for the said

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| inventions | before co | ompetent ? | International | Authorities | and | in any | and | all | countries | foreign | to the | e United |
|-------------|-----------|-------------|----------------|--------------|------|---------|--------|------|-------------|----------|--------|----------|
| States in w | hich appl | ications fo | or Letters Pat | ent can be s | o ma | de or I | Letter | s Pa | atent so ol | otained. | | |

Signed:

/ Cautham J. Hissore /

Nov 20, 2013

Date

Page 2 of 2 **PATENT REEL: 031653 FRAME: 0544**

RECORDED: 11/21/2013