

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5399260

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ROBINSON PIRAMUTHU	02/21/2018
TIMOTHY SAMUEL KEEFER	01/02/2019
ASHMEET SINGH REKHI	01/01/2019
PADMAPRIYA GUDIPATI	12/22/2018
MOHAMMADHADI KIAPOUR	12/21/2018
SHUAI ZHENG	12/31/2018
MD ATIQ UL ISLAM	01/18/2019
NICHOLAS ANTHONY WHYTE	02/02/2019
GIRIDHARAN IYENGAR	02/21/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EBAY INC.
<b>Street Address:</b>	2025 HAMILTON AVE
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95125
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16235007
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(509)755-7262
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	509-755-7262
<b>Email:</b>	docket@wolfe-sbmc.com
<b>Correspondent Name:</b>	WOLFE-SBMC/EBAY
<b>Address Line 1:</b>	116 WEST PACIFIC
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	SPOKANE, WASHINGTON 99201
<b>ATTORNEY DOCKET NUMBER:</b>	IP-P3447US1
<b>NAME OF SUBMITTER:</b>	PATRICK J. WALSH

PATENT

<b>SIGNATURE:</b>	/Patrick J. Walsh/
<b>DATE SIGNED:</b>	02/28/2019
<b>Total Attachments: 18</b> source=IP-P3447US1_Assignments_For_Filing#page1.tif source=IP-P3447US1_Assignments_For_Filing#page2.tif source=IP-P3447US1_Assignments_For_Filing#page3.tif source=IP-P3447US1_Assignments_For_Filing#page4.tif source=IP-P3447US1_Assignments_For_Filing#page5.tif source=IP-P3447US1_Assignments_For_Filing#page6.tif source=IP-P3447US1_Assignments_For_Filing#page7.tif source=IP-P3447US1_Assignments_For_Filing#page8.tif source=IP-P3447US1_Assignments_For_Filing#page9.tif source=IP-P3447US1_Assignments_For_Filing#page10.tif source=IP-P3447US1_Assignments_For_Filing#page11.tif source=IP-P3447US1_Assignments_For_Filing#page12.tif source=IP-P3447US1_Assignments_For_Filing#page13.tif source=IP-P3447US1_Assignments_For_Filing#page14.tif source=IP-P3447US1_Assignments_For_Filing#page15.tif source=IP-P3447US1_Assignments_For_Filing#page16.tif source=IP-P3447US1_Assignments_For_Filing#page17.tif source=IP-P3447US1_Assignments_For_Filing#page18.tif	

## *ASSIGNMENT*

Whereas I, the ASSIGNOR herein,

**Robinson Piramuthu**  
7797 Hansom Dr.  
Oakland, CA 94605

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America.

WHEREAS, eBay Inc., the ASSIGNEE herein, is a corporation organized and existing under the laws of the State of Delaware, having a place of business at 2025 Hamilton Avenue, San Jose, California 95125, 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;

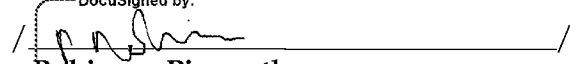
NOW, THEREFORE, I, the said ASSIGNOR, have assigned and do hereby assign, transfer and set over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said inventions and all improvements thereon, in and to said patent application for Letters Patent thereon, in 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

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:

DocuSigned by:  
  
Robinson Piramuthu

12/21/2018  
Date

## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Timothy Samuel Keefer**  
2025 Hamilton Ave  
San Jose, CA 95125

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America filed on December 28, 2018, and assigned U.S. Patent Application Number 16/235,007.

WHEREAS, eBay Inc., the ASSIGNEE herein, is a corporation organized and existing under the laws of the State of Delaware, having a place of business at 2025 Hamilton Avenue, San Jose, California 95125, 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.

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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:

DocuSigned by:  
/ *Timothy Samuel Keefer* /  
**Timothy Samuel Keefer**

1/2/2019

\_\_\_\_\_  
Date

## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Ashmeet Singh Rekhi**  
601 Almarida Dr.  
Apt. F6  
Campbell, CA 95008

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America filed on December 28, 2018, and assigned U.S. Patent Application Number 16/235,007.

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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.

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Signed:

DocuSigned by:  
  
Ashmeet Singh Rekhi

1/1/2019  
Date



## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Padmapriya Gudipati**  
4894 Pebble Glen Dr.  
San Jose, CA 95129

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America.

WHEREAS, eBay Inc., the ASSIGNEE herein, is a corporation organized and existing under the laws of the State of Delaware, having a place of business at 2025 Hamilton Avenue, San Jose, California 95125, 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;

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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:

DocuSigned by:  
  
Padmapriya Gudipati

12/22/2018

Date

## *ASSIGNMENT*

Whereas I, the ASSIGNOR herein,

**Mohammadhadi Kiapour**  
2190 Beach St.  
Apt #106  
San Francisco, CA 94123

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America.

WHEREAS, eBay Inc., the ASSIGNEE herein, is a corporation organized and existing under the laws of the State of Delaware, having a place of business at 2025 Hamilton Avenue, San Jose, California 95125, 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;

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Signed:

DocuSigned by:  
*Mohammadhadi Kiapour*  
Mohammadhadi Kiapour

12/21/2018

Date

## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Shuai Zheng**  
2055 Center Street  
Apt 804  
Berkeley, CA 94704

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America filed on December 28, 2018, and assigned U.S. Patent Application Number 16/235,007.

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Signed:

DocuSigned by:  
/ *Shuai Zheng* \_\_\_\_\_/  
Shuai Zheng  
4071BF0F4D308FC...

12/31/2018

\_\_\_\_\_  
Date

## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Md Atiq ul Islam**  
3270 Fallen Oak Ct  
San Jose, CA 95148

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America filed on December 28, 2018, and assigned U.S. Patent Application Number 16/235,007.

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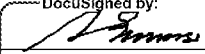
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inventions before competent International Authorities and in any and all countries foreign to the United States in which applications for Letters Patent can be so made or Letters Patent so obtained.

Signed:

DocuSigned by:  
  
/ \_\_\_\_\_ /  
Md Atiq ul Islam

1/18/2019  
\_\_\_\_\_  
Date



## ***ASSIGNMENT***

Whereas I, the ASSIGNOR herein,

**Nicholas Anthony Whyte**  
2025 Hamilton Ave  
San Jose, CA 95125

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America filed on December 28, 2018, and assigned U.S. Patent Application Number 16/235,007.

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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:

DocuSigned by:  
/ *Nicholas Anthony Whyte* /  
Nicholas Anthony Whyte

2/2/2019

\_\_\_\_\_  
Date

## *ASSIGNMENT*

Whereas I, the ASSIGNOR herein,

**Giridharan Iyengar**  
2025 Hamilton Ave  
San Jose, CA 95125

have invented **Computer Vision, User Segment, and Missing Item Determination (DOCKET NO. IP-P3447US1)**, described, illustrated, and claimed in an application for Letters Patent in the United States of America.

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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:

DocuSigned by:  
/ *Giridharan Iyengar* \_\_\_\_\_ /  
Giridharan Iyengar

12/21/2018

\_\_\_\_\_  
Date