505821299 12/14/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5868129

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NAREN CHITTAR	04/15/2011
SANJAY PUNDLKRAO GHATARE	04/15/2011
RYAN MCDONALD	04/15/2011
JOHN ROPER	04/21/2011
MICHAEL SCHMITZ	04/18/2011

RECEIVING PARTY DATA

Name:	EBAY INC.
Street Address:	2025 HAMILTON AVENUE
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95125

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16707467

CORRESPONDENCE DATA

Fax Number:

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.

Email: request@slwip.com

Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER, P.A.

Address Line 1: P.O. BOX 2938

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	2043.822US8
NAME OF SUBMITTER:	CATINA JENSEN
SIGNATURE:	/CaTina Jensen/
DATE SIGNED:	12/14/2019

Total Attachments: 7

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RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 2043.822US8 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: eBay Inc. Naren Chittar, Sanjay Pundlkrao Ghatare, Ryan McDonald, John Roper, Michael Schmitz Street Address: 2025 Hamilton Avenue City: San Jose State: California Country: United States of America Additional name(s) of conveying party(ies) attached? Zip: 95125 []Yes [X]No Additional name(s) & address(es) attached? []Yes [X]No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: <u>April 15, 2011, April 15, 2011, April 15, 2011, April 21, 2011, April 18, 2011</u> 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 16/707,467 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Garrett M. Hall [[Enclosed [Authorized to be charged to deposit account Address: 19-0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, Minnesota 55402 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. /Garrett Hall/ Garrett M. Hall/Reg. No. 67,888 Name of Person Signing Total number of pages including cover sheet: 7

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services

P.O. Box 1450

Alexandria, VA 22313-1450

Attorney Docket No. 2043.822US1 Client Ref. No. P1043US1

ASSIGNMENT

WHEREAS. We, Naren Chittar, residing at 4553 Latimer Avenue, San Jose, CA 95130, and Sanjay Pundlkrao Ghatare, residing at 3269 Palmo Court, San Jose, CA 95135, and Ryan McDonald, residing at 3165 Mission St, Unit 202. San Francisco, CA 94110, and John Roper, residing at 24210 NE 20th Street, Sammamish, WA 98074, and Michael Schmitz, residing at 4524 Seahurst Avenue, Everett, WA 98203, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on March 28, 2011, which application was assigned U.S. patent application serial number 13/073,911, and is entitled PRE-COMPUTING DIGESTS FOR IMAGE SIMILARITY SEARCHING OF IMAGE-BASED LISTINGS IN A NETWORK-BASED PUBLICATION SYSTEM:

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to <u>eBay Inc.</u> (the "Assignee"), a corporation of the State of <u>Delaware</u>, having a place of business at <u>2145 Hamilton Avenue</u>, San Jose, CA <u>95125</u>, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 49845 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

Additional Application Information

U.S. Provisional Application Serial No. 61/318,762, filed on March 29, 2010.

No International or foreign claim for priority is being made at this time.

Assignment Docket No. 2043.822US3

Column Ref No. P1045US1
Assignors: Neven Chinar et al.
Serial Mumber: 13/073,911
Trie: PRE-COMPUTING DIGESTS FOR IMAGE SIMILARITY SEARCHING OF IMAGE-BASED LISTINGS IN A
NETWORK-BASED PUBLICATION SYSTEM

Page 2 of 6

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee:

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignce, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

Inventor: 1:	A D	
(Signature):	Name: Nagen Chittar	
Flota:	ALL 16,2011	

Assignment Chest Ref. No. P1043	re:	Docket No. 3043 822US)
Assignors: Naton Chi Title: PRE-COMPUT		Senal Number (13/073,94) AGU-BASED USTINGS IN A
Inventor: 2:		
(Signature):		
	Name: Sanjay Pundikrao Ghatare	
Date:	4.875	

Assignment	Docket No. 2043 \$3211\$1
Chert Ref. No. P1043081 Assigners: North China: et al. Title: PRE-COMPUTING DIGESTS FOR BMAGE SIMBLARITY SEARCHING OF IMAGE-B. RETWORK-BASED PUBLICATION SYSTEM Page 4 of 6	Seria: Number 13/073,911 ASEO LISTINGS IN A
Inventor: 3:	
(Signature): 2 MALL D Name: Ryan McDonald	
Name: Ryan McDonald	
Date: 4///5///	

Assignment
Client Ref. No. P1043US1
Assignors: Naren Chitter et al.
Ticle: PRE-COMPUTING DIGESTS FOR IMAGE SIMILARITY SEARCHING OF IMAGE-BASED LISTINGS IN A
NETWORK-BASED PUBLICATION SYSTEM
Page 5 of 6

Inventor: 4:

(Signature):

Jame: John Roper

Date:

Assignment Client Ref. No. P1043US1

Docket No: 2043,822US1

Sorial Number: 13/073,911

Assignors: Naren Chittar et al.

Sorial Number: 1.
Tide: PRE-COMPUTING DIGESTS FOR IMAGE SIMILARITY SEARCHING OF IMAGE-BASED LISTINGS IN A NETWORK-BASED PUBLICATION SYSTEM
Page 6 of 6

Inventor: 5:

(Signature):

Name: Michael Schmitz

PATENT REEL: 051286 FRAME: 0017

RECORDED: 12/14/2019