

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4099887

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KE CHEN	08/09/2016
JOHN L. HALLER	08/09/2016
TAKEO KANADE	08/06/2016
ATHINODOROS S. GEORGHIADES	09/06/2016
RECEIVING PARTY DATA	
Name:	CCC INFORMATION SERVICES INC.
Street Address:	222 MERCHANDISE MART
Internal Address:	SUITE 900
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60654-1105
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15160101
CORRESPONDENCE DATA	
Fax Number:	(312)474-0448
<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>	
Email:	docket@marshallip.com
Correspondent Name:	MARSHALL, GERSTEIN & BORUN
Address Line 1:	233 SOUTH WACKER DRIVE
Address Line 2:	SUITE 6300
Address Line 4:	CHICAGO, ILLINOIS 60606
ATTORNEY DOCKET NUMBER:	29856/50508
NAME OF SUBMITTER:	LISET LUNA
SIGNATURE:	/Liset Luna/
DATE SIGNED:	10/17/2016
Total Attachments: 5	
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ASSIGNMENT

Serial No: 15/160,101

Filed: May 20, 2016

Title: Image Processing System to Detect Contours of an Object in a Target Object Image

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned agrees to assign and hereby assigns to CCC INFORMATION SERVICES INC., 222 Merchandise Mart, Suite 900, Chicago, Illinois 60654-1105 and its successors and assigns ("Assignee") the entire right, title, and interest in and to the inventions of such undersigned that are disclosed in the application listed above. Also assigned are (i) all rights in any and all other applications anywhere in the world that the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, (ii) all rights in any and all patents that may be obtained on any of said applications, and (iii) all rights in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates, and/or extensions thereof. The rights assigned include without limitation, the right to bring suit, the right to claim and retain all damages and/or seek other remedies for the past, present, and future infringement of any of the foregoing, and the right of priority (including without limitation the right to claim priority benefit of or to said patent applications.) The undersigned request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of Assignee.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or an original joint inventor of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, title and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, title and interests herein assigned.

Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions (including without limitation applications or requests for the reissue, reexamination, or extension of the patent or for a supplementary protection certificate) and any oath, declaration, or affidavit relating thereto that Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with Assignee and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce, and vest in Assignee the rights, title, and interests assigned herein. These acts include, without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, title and interests will be held and enjoyed by Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

MARSHALL, GERSTEIN & BORUN LLP, 233 S. Wacker Drive, 6300 Willis Tower, Chicago, Illinois 60606-6357

WITNESS our hands this 9th day of AUGUST, 2016.

State of ILLINOIS
County of COOK

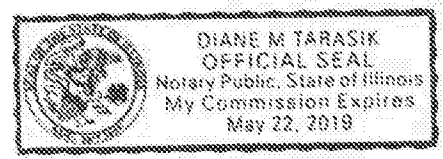
Ice Chen
Ke Chen

On this 9th day of AUGUST, 2016, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that she executed said instrument as her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: 5/22/2019

Diane M. Tarasik
Notary Public



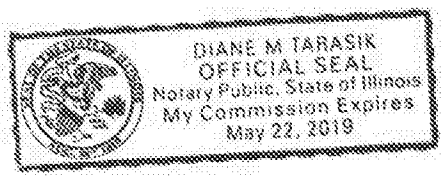
[Signature]
John L. Haller

State of ~~California~~ ILLINOIS)
) ss.
County of COOK)

On AUGUST 9, 2016, before me, DIANE M. TARASIK, personally
appeared John L. Haller, who proved to me on the basis of
satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me
that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the
person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of ~~California~~ that the foregoing paragraph is
true and correct. ILLINOIS

WITNESS my hand and official seal.
[Signature]




Date: 2016/6/8

Signature: *J. K. Kaur*
J. K. Kaur

29856/50508

Date: 06/03/2016

Signature: 
Arminador S. George

20856/30508