

04/23/2012

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TO THE HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS  
PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF

4/19/12

<p>1. Name of conveying party: <b>Pingshan Li</b> <b>Kensuke Miyagi</b> <b>Florian Ciurea</b> <b>Tomonori Shuda</b></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: <b>Sony Corporation</b></p> <p>Internal Address:</p> <p>Street Address: <b>1-7-1 Konan</b> <b>Minato-Ku,</b> City: <b>Tokyo</b> State: <b>ZIP: 108-0075</b> Country: <b>Japan</b></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: <b>March 20, 2012, March 21, 2012</b></p>	<p>7. Total fee (37 CFR 3.41): \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <b>50-3367</b> (Attach duplicate copy of this page if paying by deposit account)</p>



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:  
**March 20, 2012, March 21, 2012**

<p>A. Patent Application No(s): <b>13/429,328</b></p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>B. Patent No(s):</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <b>Gregory J. Koerner</b> <b>Redwood Patent Law</b></p> <p>Street Address: <b>1291 East Hillsdale Boulevard, Suite 205</b></p> <p>City: <b>Foster City</b> State: <b>CA</b> ZIP: <b>94404</b></p>	<p>6. Number of applications and patents involved: <b>[ 1 ]</b></p>
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DO NOT USE THIS SPACE

9. 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.

**Gregory J. Koerner, Reg. No. 38,519**  
Name of Person Signing

Signature

**04/23/2012 LMARTIN 00000046 13429328**  
**01 FC:0021** **4/19/12** **40.00 OP**  
Date

Total number of pages including cover sheet, attachments and document: **[10]**

Do not detach this portion. Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, We, the undersigned, **Pingshan Li, Kensuke Miyagi, Florian Ciurea, and Tomonori Shuda** do hereby sell, assign, and transfer to **Sony Corporation**, a Japanese corporation with offices at 1-7-1 Konan, Minato-Ku, Tokyo, 108-0075, Japan, ("Assignee"), their successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled:

**"System And Method For Utilizing Scene Detection  
In A Depth Estimation Procedure"**

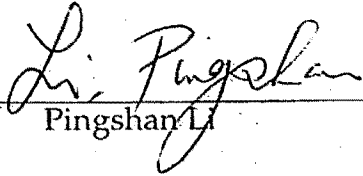
and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in their own names; and that, when requested, without charge to, but at the expense of, said Assignee, their successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, their successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, their successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, their successors, assigns and legal representatives; and

Covenant with said Assignee, their successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: Mar 20, 2012

Name: \_\_\_\_\_

  
Pingshan Li

**PATENT**

**REEL: 028163 FRAME: 0787**

Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Kensuke Miyagi

Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Florian Ciurea

Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Tomonori Shuda

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Santa Clara

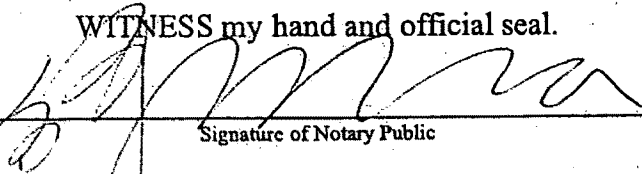
On March 20, 2012 before me, Yu-Ching Hsu, Notary Public  
(here insert name and title of the officer)

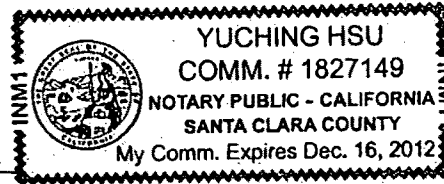
personally appeared Pingshan Li

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

WITNESS my hand and official seal.

  
Signature of Notary Public



(Seal)

## ADDITIONAL OPTIONAL INFORMATION

### DESCRIPTION OF THE ATTACHED DOCUMENT

Assignment

(Title or description of attached document)

Attorney Docket # 201104006, 02/2002

(Title or description of attached document continued)

Number of Pages 2 Document Date \_\_\_\_\_

(Additional information)

### CAPACITY CLAIMED BY THE SIGNER

- Individual (s)  
 Corporate Officer

(Title)

- Partner(s)  
 Attorney-in-Fact  
 Trustee(s)  
 Other \_\_\_\_\_

### INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they, is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
  - ❖ Indicate title or type of attached document, number of pages and date.
  - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, We, the undersigned, **Pingshan Li, Kensuke Miyagi, Florian Ciurea, and Tomonori Shuda** do hereby sell, assign, and transfer to **Sony Corporation**, a Japanese corporation with offices at 1-7-1 Konan, Minato-Ku, Tokyo, 108-0075, Japan, ("Assignee"), their successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled:

**"System And Method For Utilizing Scene Detection  
In A Depth Estimation Procedure"**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in their own names; and that, when requested, without charge to, but at the expense of, said Assignee, their successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, their successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, their successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, their successors, assigns and legal representatives; and

Covenant with said Assignee, their successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Pingshan Li

Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Kensuke Miyagi

Date: Mar 21, 2012

Name: *Florian*  
Florian Ciurea

Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Tomonori Shuda

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Date: \_\_\_\_\_

Name: \_\_\_\_\_

Pingshan Li

Date: 3/21/2012

Name: Kensuke Miyagi

Kensuke Miyagi

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Florian Ciurea

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Tomonori Shuda



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Date: \_\_\_\_\_

Name: \_\_\_\_\_

Pingshan Li

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Kensuke Miyagi

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Florian Ciurea

Date: 3/21/2012

Name: Tomonori Shuda

Tomonori Shuda