

PATENT

Applicant: XIMIN ZHANG; MING-CHANG LIU
 Serial No.: 12/972,162
 Filed: DECEMBER 17, 2010
 Title: PATCH DESCRIPTION MODELING FOR IMAGE SUBSCENE RECOGNITION
 Group:
 Examiner:
 Docket No. SONY.197A (200903011.01)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ASSIGNMENT (DOCUMENT) COVER LETTER

PATENT OR PATENT APPLICATION

1. NAMES OF PARTY(IES) MAKING TRANSFER

Name 1: XIMIN ZHANG

Name 2: MING-CHANG LIU

2. IDENTITY OF PARTY(IES) TO WHOM TRANSFER IS MADE

This transfer is being made to:

Name: SONY CORPORATION
 1-7-1 KONAN, MINATO-KU
 TOKYO, 108-0075
 JAPAN

3. INTENTION OF DOCUMENT

A brief description of what the accompanying document intends to accomplish is that it is an:

- Assignment
- License
- Security Interest
- Other

CH \$40.00 071137 12972162

4. IDENTIFICATION OF PATENT OR APPLICATION

Particulars of the patent or application to which the accompanying document applies are:

Inventor(s):

XIMIN ZHANG; MING-CHANG LIU

For (title):

PATCH DESCRIPTION AND MODELING FOR IMAGE SUBSCENE
RECOGNITION

- (a) U.S. patent application filed herewith.
(b) U.S. patent application serial no. 12/972,162 filed on December 17, 2010.
(c) U.S. patent no. _____ issued _____.

5. NAME AND ADDRESS TO WHICH CORRESPONDENCE SHOULD BE MAILED

Please address all correspondence and return the recorded document to:

John P. O'Banion
O'BANION & RITCHEY LLP
400 Capitol Mall, Suite 1550
Sacramento, CA 95814

6. NUMBER OF APPLICATIONS OR PATENTS IDENTIFIED AND TOTAL FEE DUE

The number of applications or patents identified herein is: 1

Total Fee Due \$ 40.00

7. DATE DOCUMENT WAS EXECUTED

The accompanying document was executed on December 16, 2010.

8. FEE PAYMENT

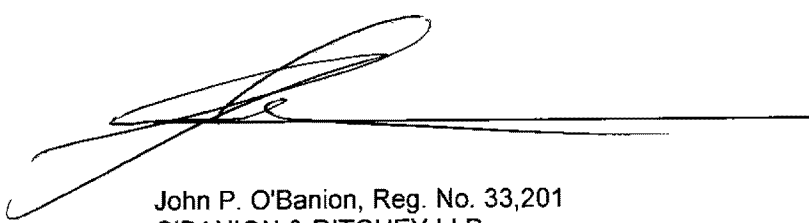
Charge Account No. 07-1137 in the sum of \$40

9. **STATEMENT OF AUTHENTICITY**

The undersigned certifies that, to the best of his or her knowledge and belief, the information contained in this cover sheet is true and correct, and any copy of the document submitted for recording is a true copy of the original document.

10. **SIGNATURE**

Dated: 12/29/10



John P. O'Banion, Reg. No. 33,201
O'BANION & RITCHEY LLP
400 Capitol Mall, Suite 1550
Sacramento, CA 95814
(916) 498-1010

PATENT

Attorney Docket No.: SONY.197A (200903011.01)

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in **PATCH DESCRIPTION AND MODELING FOR IMAGE SUBSCENE RECOGNITION** for which application for Letters Patent of the United States of America has been filed on the date and has the serial number indicated below.

AND WHEREAS, **Sony Corporation, a Japanese corporation with offices at 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan** (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefore in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignees of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And I hereby authorize and request my attorney(s) of record in this application to insert the execution date, serial number and filing date of this application in the spaces that follow:

Serial Number: 121972, 162, Filing Date: 12/17/10

This assignment is being executed on the date indicated below.

Inventor: [Signature] Date: 12/16/2010

XIMIN ZHANG

STATE OF California
COUNTY OF Santa Clara ss.

On Dec. 16, 2010 before me, Yu-Ching Hsu, Notary Public
(Date) (name and title) (notary public)

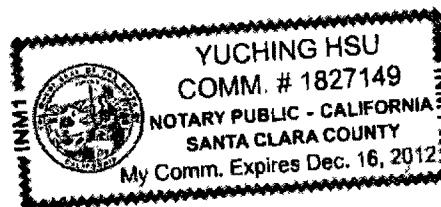
personally appeared XIMIN ZHANG
name(s) of signer(s)

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 office seal.

[Signature]
Notary Public



This assignment is being executed on the date indicated below.

Inventor: *Ming-Chang Liu*

Date: Dec 16, 2010

MING-CHANG LIU

STATE OF California

COUNTY OF Santa Clara ss.

On Dec. 16, 2010 before me, Yu-Ching Hsu, Notary Public
(Date) (name and title) (notary public)

personally appeared MING-CHANG LIU
name(s) of signer(s)

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 office seal.

Yu-Ching Hsu
Notary Public

