

APR 03 2007

U.S. Department of Commerce
Patent and Trademark Office

04-09-2007



R SHEET

TO: The Director of the U.S. Patent and Trademark Office

103392181

Check documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Edward Hong 02/14/2007
Avinash Ramachandran 02/14/2007

Execution Date(s):

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

ViXS Systems, Inc., a Corporation
Parkway Place
245 Consumers Road, Suite 301
Toronto, Ontario M2J 1R3 CanadaAdd'l name(s) & addr of receiving party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Security Agreement ☐ Change of Name ☐ Merger ☐ License ☐ Other☐ Governmental Interest Assignment ☐ Executive Order 9424, Confirmatory License

4. Application or patent number(s):

☐ This document is being together with a new application.

A. Application number(s): 11/708,654

B. Patent number(s):

Additional number(s) attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning this document should be mailed:

Name Bruce Stuckman, Ph.D.

Address P.O. Box 160727
Austin TX 78716-0727

Phone No: (512) 241-8444

Fax No: (512) 241-8445

email address

FMETEKI1 00000062 11708654

Docket No: VIXS111

(40.00 OP)

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 1.21 (h) & 3.41) \$ \$40.00

- ☒
- Authorized to be charged by credit card
-
- ☐
- None required (gov't interest not affecting title)
-
- ☐
- Enclosed
-
- ☐
- Authorized to be charged to deposit account

8. Payment Information

a. Credit Card Last 4 digits: 6332

Expiration date: 07/08

b. Deposit Account Number: 50-2126

Authorized User Name: Garlick, Harrison & Markison

9. Signature:

/Bruce E. Stuckman, Ph.D./ Reg. No. 36,693

Bruce Stuckman, Ph.D. 36,693

Name of Person Signing

4/3/2007

Date

Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mail to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313 -1450

Docket No. VLXS111

U.S. Utility Patent Appl. Serial No.: 11/708,654
U.S. Utility Patent Appl. Filing Date: 02/20/2007
U.S. Patent No.: _____
U.S. Patent Issue Date: _____

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignors", have invented a new and useful invention entitled:

MOTION REFINEMENT ENGINE FOR USE IN VIDEO ENCODING IN ACCORDANCE WITH A PLURALITY OF SUB-PIXEL RESOLUTIONS AND METHODS FOR USE THEREWITH

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith or that was filed with the United States Patent and Trademark Office on the 20th day of Feb., 2007. The Assignors believe himself/herself/themselves to be the original inventor(s) of the invention disclosed and claimed in the application for Letters Patent.

WHEREAS, The entity identified immediately below having a principal office and place of business as identified, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

VIXS Systems, Inc., a Corporation
Parkway Place
245 Consumers Road, Suite 301
Toronto, Ontario M2J 1R3 Canada

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, any and all provisional patent applications from which the application claims priority, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein

Docket No. VIXS111

identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of the United States Patent and Trademark Office is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below. The undersigned hereby authorizes and requests the attorneys and/or agents of record in the application above identified, and in, to and under Letters Patent which may be obtained for said invention, to insert in this assignment the filing date and serial number of said application (and/or issue date and patent number of said corresponding Letters Patent) when officially known, if applicable.

Inventor(s):



Edward Hong Feb 14, 2007
Date



Avinash Ramachandran Feb 14, 2007
Date

Date

Date

Date

Date