

10-17-2002
102251543

COPY OF ORIGINAL
ASSIGNMENT
DO NOT RECORD

1017 U.S. PTO
10/268219
10/09/02

PATENT APPLICATION
Do. No. 7293-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BOX ASSIGNMENT
Commissioner of Patents and Trademarks
Washington, D.C. 20231

10/09/02
Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1. Name of party conveying an interest: Zhongde WANG
2. Name and address of party(ies) receiving an interest: Pixelworks, Inc.
770 SW Mohawk Street
Tualatin, OR 97062

3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name ☐ Security Agreement ☐ Merger

10/268219
Date of execution of attached document: October 2, 2001

4. Application number(s) or patent number(s). Additional sheet attached? No

If this document is being filed together with a new application, the filing date of the application is: October 11, 2001.

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

MARGER JOHNSON & McCOLLOM, P.C.
1030 S.W. Morrison Street
Portland, Oregon 97205
Telephone: (503) 222-3613

6. Number of applications and patents involved: 1
7. PTO Form 2038 authorizing credit card payment (\$190, filing and assignment recordation fees) is enclosed.
8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.
9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true cc of the original document.

Dated: October 11, 2001

10/15/2002 MAHMEDI 00000052 10268219

03 FC:581

40.00 DP

MARGER JOHNSON & McCOLLOM, P.C.

Respectfully submitted,
MARGER JOHNSON & McCOLLOM, P.C.

[Signature]
Graciela G. Cowger
Reg. No. 42,444

PATENT
REEL: 013375 FRAME: 0804

COPY OF ORIGINAL
ASSIGNMENT
DO NOT RECORD

J1017 U.S. PTO
10/268219
10/09/02

PATENT APPLICATION
Do. No. 7293-32

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BOX ASSIGNMENT
Commissioner of Patents and Trademarks
Washington, D.C. 20231

Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1. Name of party conveying an interest:: Zhongde WANG
2. Name and address of party(ies) receiving an interest: Pixelworks, Inc.
770 SW Mohawk Street
Tualatin, OR 97062

3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name ☐ Security Agreement ☐ Merger

Date of execution of attached document: October 2, 2001

4. Application number(s) or patent number(s). Additional sheet attached? No

If this document is being filed together with a new application, the filing date of the application is: October 11, 2001.

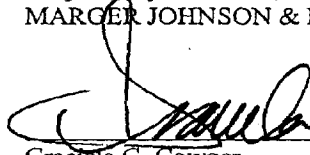
5. Name and address of party to whom correspondence concerning document should be mailed:

MARGER JOHNSON & McCOLLOM, P.C.
1030 S.W. Morrison Street
Portland, Oregon 97205
Telephone: (503) 222-3613

6. Number of applications and patents involved: 1
7. PTO Form 2038 authorizing credit card payment (\$190, filing and assignment recordation fees) is enclosed.
8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.
9. 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.

Dated: October 11, 2001

Respectfully submitted,
MARGER JOHNSON & McCOLLOM, P.C.



Graciela G. Cowger
Reg. No. 42,444

MARGER JOHNSON & McCOLLOM, P.C.
1030 SW Morrison Street
Portland, OR 97205
(503) 222-3613

Total number of pages comprising
cover sheet and attached assignment: 3

PATENT
REEL: 013375 FRAME: 0805

COPY OF ORIGINAL
ASSIGNMENT
DO NOT RECORD

PATENT APPLICATION
Attorney's Do. No. 7293-32

ASSIGNMENT

Assignor: Zhongde Wang

Address: 2605 NW 32nd Ave.
Camas, WA 98607

Assignee: Pixelworks, Inc.

Address: 7700 SW Mohawk Street
Tualatin, OR 97062

Title of
Invention: WEIGHTED ABSOLUTE DIFFERENCE BASED NOISE
REDUCTION ALGORITHM

Application Serial No.: Filed Herewith

Filing Date: Filed Herewith

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

Executed at TUALATIN, Oregon, this 2 day of
October, 2001.

Zhongde Wang
Zhongde Wang
Assignor

STATE OF Oregon)
County of Washington) ss.

Before me this 2nd day of October, 2001, personally appeared
the above-named individual, to me known to be the person who is described in and who
executed the foregoing assignment instrument and acknowledged to me that he executed the
same of his own free will for the purpose therein expressed.

Mary Connell-Hawkins
Notary Public for OREGON
My commission expires:

[SEAL]

