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Name Daniel R. Shepard

Execution Date
Month Day Year

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Name

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Name (line 1) NUP2 Incorporated

Name (line 2) 186 Atlantic Avenue

Address (line 1)

Address (line 2)

Address (line 3) North Hampton

NH

03862

City

State/Country

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Area Code and Telephone Number

Name Patent Administrator

Address (line 1) Goodwin Procter LLP

Address (line 2) Exchange Place

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Address (line 4) Boston, MA 02109

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3

Application Number(s) or Patent Number(s)

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Patent Application Number(s)

Patent Number(s)

11/229,941

Patent Cooperation Treaty (PCT)

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103089772

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

xpress Mail Mailing Label No. EL897781595US

| | |
|----------------------|---|
| Attorney Docket No. | NUP-004DV |
| First Named Inventor | Shepard |
| Title | Low Cost High Density Rectifier Matrix Memory |

113013 U.S. PTO
11/229941

091905

APPLICATION ELEMENTS

ADDRESS TO: **Commissioner for Patents**
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ACCOMPANYING APPLICATION PARTS

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form | ACCOMPANYING APPLICATION PARTS |
| 2. <input checked="" type="checkbox"/> Small Entity Status <input checked="" type="checkbox"/> Applicant claims small entity status <input checked="" type="checkbox"/> Status established in prior application and is still proper and desired | |
| 3. <input checked="" type="checkbox"/> Specification and Drawings [Total Pages 16] - Written Description - (pages) 10 - Claims - (pages) 2 - Abstract - (page) 1 - Sheets of Drawings - (sheets) 3 <input checked="" type="checkbox"/> Formal <input type="checkbox"/> Informal | |
| 4. <input checked="" type="checkbox"/> Oath or Declaration [Total Pages] a. <input type="checkbox"/> Newly executed (original) b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 17 completed)</i> <i>[Note Box 5 below]</i> | |
| 5. <input checked="" type="checkbox"/> Incorporation by Reference (usable if Box 4b is checked) The entire Disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein. | 8. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney |
| 6. <input checked="" type="checkbox"/> Application Data Sheet | 9. <input type="checkbox"/> English Translation Document (if applicable) |
| 7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission <input type="checkbox"/> Computer Readable Form (CRF) <input type="checkbox"/> Paper Copy (identical to computer copy) <input type="checkbox"/> CD (2 copies) (identical to computer copy) <input type="checkbox"/> Statement verifying identity of above copies | 10. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations |
| 17. <input checked="" type="checkbox"/> If a CONTINUING APPLICATION: Amend the specification by inserting on page 1, before the first line, the sentence: --This is a <input type="checkbox"/> continuation <input checked="" type="checkbox"/> divisional <input type="checkbox"/> continuation-in-part of prior application Serial No. 09/887,201 filed on , the entire disclosure of which is incorporated by reference herein.-- Priority to the above application(s) is claimed under 35 U.S.C. 120. Prior application information: Examiner: <u>Dinh</u> . Group/Art Unit: <u>2824</u> . | 11. <input checked="" type="checkbox"/> Preliminary Amendment <input checked="" type="checkbox"/> Drawings [Total Sheets 3] |
| 18. <input type="checkbox"/> Priority - 35 U.S.C. 119 <input type="checkbox"/> Priority of application Serial No. _____ filed on _____ in _____ is claimed under 35 U.S.C. 119. <input type="checkbox"/> The certified copy has been filed in prior U.S. application Serial No. _____ / _____ on _____. <input type="checkbox"/> The certified copy will follow. | 12. <input checked="" type="checkbox"/> Return Receipt Postcard (specifically itemized) |
| | 13. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority claimed) |
| | 14. <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b) |
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CORRESPONDENCE ADDRESS

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 Customer No. 051414

SIGNATURE BLOCK

Date: September 19, 2005
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Respectfully submitted,

 Steven J. Frank
 Atty/Agent for Applicant(s)
 Goodwin Procter LLP
 Exchange Place
 Boston, MA 02109

09/22/2005 HMARZ11 00000098 11229941

40.00 DP

04 FL:8021

Express Mail Mailing Label No. EL897781595US**ASSIGNMENT**

WHEREAS, I, Daniel R. Shepard, have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

LOW COST HIGH DENSITY RECTIFIER MATRIX MEMORY

and identified by

☐ Attorney Docket No. NUP-004, and/or executed by me on even date herewith and about to be filed in the United States Patent Office; and

☒ Serial No. 09/887,201 filed in the United States Patent Office on June 22, 2001; and

WHEREAS, NUP2 Incorporated (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 186 Atlantic Avenue, North Hampton, NH 03862, desires to acquire an interest therein, in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of my entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

Sole Assignment
U.S. Serial No. 09/887,201
Page 2 of 2

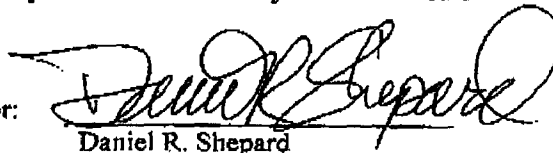
AND, I hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, I hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of my execution of this assignment;

AND, I do hereby authorize and request the Director of the United States Patent and Trademark Office and the empowered officials of all other governments to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal on the date set forth below.

Inventor:


Daniel R. Shepard

State/Commonwealth of New Hampshire)
County of Rockingham) ss

On this 23 day of Sept, 2004, before me, the undersigned Notary Public, personally appeared Daniel R. Shepard, proved to me through satisfactory evidence of identification, which was/were Daniel R. Shepard, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.


Signature of Notary

(Seal)

My Commission Expires: DELORES J. CHASE
Notary Public / Justice of the Peace
My Commission Expires January 15, 2008

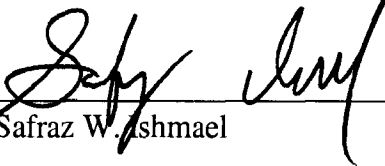
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Shepard CONFIRMATION NO.: 2436
SERIAL NO.: 11/229,941 GROUP NO.: 2824
FILING DATE: September 19, 2005 EXAMINER: Not Yet Assigned
TITLE: Low Cost High Density Rectifier Matrix Memory

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on this 13th day of February 2006.


Safraz W. Ashmael

Mail Stop Assignment Recordation Services
Director of the U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith is/are:

1. Recordation Form Cover Sheet (2 pgs.);
2. Copy of Executed Assignment Document (2 pgs.);
3. Copy of Originally Submitted Transmittal with PTO stamp with original date of receipt (1 pg.); and
4. Return Receipt Postcard.

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