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Atty Ref/Docket No.: 1376.755US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Dennis C. Abts, Michael Higgins, Van L. Snyder and  
Gerald A Schwoerer

Additional name(s) of conveying party(ies) attached?

[ ] Yes [X] No

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

Name: Cray Inc.

Street Address: 901 Fifth Avenue, Suite 1000

City: Seattle State: WA Zip: 98164

Additional name(s) & address(es) attached? [ ] Yes [X] No

3. Nature of conveyance:

- Assignment       Merger
- Security Agreement    Change of Name
- Other

Execution Date: July 3, 2009, June 24, 2009, July 7, 2009, July 8, 2009

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:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 12/484,075, filed June 12, 2009

Additional numbers attached? [ ] Yes [X] No

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

Name: Thomas F. Brennan

Address:

Schwegman, Lundberg & Woessner, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402-0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

[ ] Enclosed

Authorized to be charged to deposit account  
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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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.

Thomas F. Brennan/Reg. No. 35.075  
Name of Person Signing

*Thomas F. Brennan*  
Signature

July 31, 2009  
Date

Total number of pages including cover sheet: 8

Mail documents to be recorded with required cover sheet information to:

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PATENT

REEL: 023048 FRAME: 0669

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### ASSIGNMENT

WHEREAS, We, Dennis C. Abts, residing at E3265 Aspen Road, Eleva, WI 54738, and Michael Higgins, residing at 4007 Meadowwood Drive, Eau Claire, WI 54701, and Van L. Snyder, residing at 2168 Quail Creek Parkway NE, Blaine, MN 55449, and Gerald A. Schwoerer, residing at 18837 72nd Avenue, Chippewa Falls, WI 54729, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on June 12, 2009, which application was assigned U.S. patent application serial number 12/484,075, and is entitled READ/WRITE CLUSTERING SYSTEMS AND METHODS;

AND WHEREAS, Cray Inc., a corporation organized and existing under and by virtue of the laws of the State of Washington, and having an office and place of business at 901 Fifth Avenue, Suite 1000, Seattle, WA 98164 (hereinafter "Assignee"), is desirous of acquiring the entire right, priority right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

Docket No: 1376.755US1  
Client Ref. No. Memory and Weaver (BW memory controller)  
Serial Number: 12/484,075  
Filing Date: June 12, 2009  
Title: READ/WRITE CLUSTERING SYSTEMS AND METHODS  
Page 2 of 6

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AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

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Client Ref. No. Memory and Weaver (BW memory controller)  
Serial Number: 12/484,075  
Filing Date: June 12, 2009  
Title: READ/WRITE CLUSTERING SYSTEMS AND METHODS  
Page 3 of 6

IN TESTIMONY WHEREOF, I have hereunto set my hand this 03 day of July, 2009.

Dennis C. Abts  
Dennis C. Abts

STATE OF Wisconsin

)ss  
COUNTY OF Fauclair

On this 03 day of July, 2009 before me personally appeared Dennis C. Abts, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Kelly A. Stelson  
Notary Public

comm. expires 04/18/2010





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Page 6 of 6

IN TESTIMONY WHEREOF, I have hereunto set my hand this 8 day of July, 2009.



Gerald A Schwoerer

STATE OF Wisconsin )  
 )ss  
COUNTY OF Chippewa )

On this 8th day of July, 2009 before me personally appeared Gerald A Schwoerer, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL] **MARY K. DAVIS**  
Notary Public  
State of Wisconsin

  
Notary Public