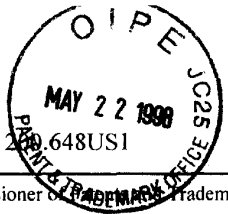


FORM PTO-1584
01-10-96:CMG

Atty Ref/Docket No.: 200 648US1

To the Honorable Commissioner of Patents and Trademarks



06-01-1998



100724686

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

copy thereof.

5/22/98

1. Name of conveying party(ies):

Rabin A. Sugumar and Stefanos Kaxiras

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

Name: Cray Research, Inc.

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other

Street Address: 655-A Lone Oak Drive

City: Eagan State: MN ZIP: 55121

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

Execution Date: April 3, 1998 and May 18, 1998

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. 08/988,524, filed December 10, 1997

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 & Kluth, P.A.
P.O. Box 2938
Minneapolis, MN 55402

6. Total number of applications and patents involved: 1

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

[X] Enclosed
[] Authorized to be charged to deposit account

8. Please charge any additional fees or credit any overpayments to our
Deposit account number: 19-0743

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9. Statement and signature.

05/29/1998 11:00:00 AM 00000030 00388524
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.

03 FC:581 Thomas F. Brennan/Reg. No. 35,075
Name of Person Signing

Signature

May 19, 1998
Date

Total number of pages including cover sheet: 4

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PATENT
REEL: 9194 FRAME: 0125

ASSIGNMENT

WHEREAS, WE, Rabin A. Sugumar, residing at 1035 ASTER AVE APT. # 1190 ~~450 Mathilda Avenue, Apt. #G201~~,
Sunnyvale, CA 94086, and Stefanos Kaxiras, residing at 4723 Sheboygan Avenue, Apt. 120,
Madison, WI 53705, made certain new and useful inventions and improvements for which We filed
an application for Letters Patent of the United States on December 10, 1997, which application was
assigned U.S. patent application serial number 08/988,524, and is entitled DISTRIBUTED
VECTOR ARCHITECTURE.

AND WHEREAS, Cray Research, Inc., a corporation organized and existing under and by
virtue of the laws of the State of Delaware, and having an office and place of business at 655-A
Lone Oak Drive, Eagan, MN 55121, (hereinafter "Assignee") is desirous of acquiring the entire
right, title and interest in and to said inventions, improvements and application and in and to the
Letters Patent to be obtained therefor:

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, or renewals thereof, all Letters Patent which may be granted therefrom, 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 therefrom; 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.

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 me/us and that full right to convey the same as herein expressed is possessed by us.

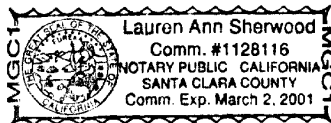
IN TESTIMONY WHEREOF, I have hereunto set my hand this 3rd day of April, 1998.

Rabin A. Sugumar
Rabin A. Sugumar

STATE OF California
COUNTY OF Santa Clara) ss.

On this 3 day of April, 1998 before me personally appeared Rabin A. Sugumar 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]



Lauren Ann Sherwood
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 18 day of MAY, 1998.

Stefanos Kaxiras

STATE OF Wis)
COUNTY OF Dane)ss.

On this 18 day of May, 1998 before me personally appeared Stefanos Kaxiras 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]

Notary Public