

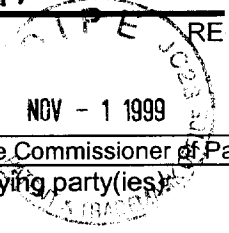
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U.S. DEPARTMENT OF COMMERCE
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101194229

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
WISCONSIN ALUMNI RESEARCH FOUNDATION
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2. Name and address of receiving party(ies):
Name: *United States Air Force*
Internal Address: *AFMC LO/JAZ*
Street Address: *2240 B Street, Room 100*
City: *Wright-Patterson Air Force Base*
State: *Ohio* Zip: *45433-7109*
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other *Confirmatory License*
Execution Date(s): *10 December 1997*
 This instrument should be recorded on the governmental register in accordance with 37 CFR 7.1(e)(1).

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): *08/871,145*
B. Patent No.(s):
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: *Fredric L. Sinder*
Internal Address: *AFMC LO/JAZ*
Street Address: *2240 B Street, Room 100*
City: *Wright-Patterson Air Force Base*
State: *Ohio* ZIP: *45433-7109*

6. Total number of applications and patents involved:
1
7. Total fee (37 CFR 3.41)\$ 0
 Enclosed Not applicable
The instrument to be recorded is not an instrument affecting title (37 CFR 7.1(e)(2) and (j)).
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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.

Fredric L. Sinder *[Signature]* October 29, 1999
Name of person signing Signature

Total number of pages including cover sheet, attachments, and document:

2

LICENSE TO THE UNITED STATES GOVERNMENT

Title: DEVICE INTERFACE USING CACHE TRANSFERS
Inventors: David A. Wood, Steven K. Reinhardt, Babak Falsafi, Mark D. Hill, Shubhendu S. Mukherjee, Robert W. Pfile
Serial #: 08/871145
Filing Dt: 6/9/97
WARF Ref: P97074US

WHEREAS, a patent application has been filed on the above identified invention;
and

WHEREAS, the invention was made in the course of research supported by the
DOD, Grant No. F33615; and

WHEREAS, the United States Government is entitled to certain rights in and to said
invention and application by reason of the terms relating to such support; and

WHEREAS, the Wisconsin Alumni Research Foundation, Madison, Wisconsin,
hereinafter called the "Licensor" has acquired by assignment from the inventor(s) the entire
right, title and interest of the inventor(s) to such invention;

NOW THEREFORE:

1. The Licensor, in consideration of the premises and other good and valuable consideration, hereby grants and conveys to the United States Government a nonexclusive, nontransferable paid-up license to make, use, and sell the invention throughout the world by or on behalf of the Government of the United States and states and domestic municipal governments under the aforesaid patent application, and any and all divisions or continuations, and in any and all patents or reissues which may be granted thereon during the full term or terms thereof.
2. The Licensor covenants and warrants that he has the right to grant the foregoing license, and that any assignment or license which he may make of the invention or the said patent applications or patents thereon, shall expressly be made subject to this license.
3. The Licensor agrees that the Government shall not be stopped at any time to contest the enforceability, validity, scope of, or title to any patent or patent application herein licensed.
4. This license shall not limit the rights reserved to the Government under the contract(s), grant(s), or other arrangement(s) under which said invention was made.

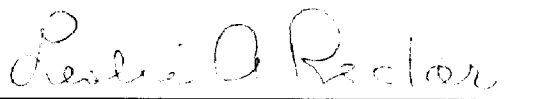
Signed this 10th day of December, 1997.

WISCONSIN ALUMNI RESEARCH FOUNDATION

By 
Carl E. Gulbrandsen
Director of Patents & Licensing

CERTIFICATE

I, Leslie A. Rector, certify that I am the Patent Administrator of the Institution named as licensor herein, that Carl E. Gulbrandsen, who signed this license on behalf of the Institution is Director of Patents & Licensing of said Institution; and that said License was duly signed for and in behalf of said Institution by authority of its governing body, and is within the scope of its corporate powers.

By 
Leslie A. Rector
Patent Administrator

Accepted for the benefit of the Government this _____ day of _____, 1997.

DEPARTMENT OF

By _____