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FORM PTO-1595
(Rev. 03/01)



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

OMD No. 0651-0027 (exp. 5/31/2002)

101949003

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

1. Name of conveying party(ies):
Andrew M. Volk; Ronald W. Swartz

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

2. Name and address of receiving party(ies):
Name: **Intel Corporation**
Internal Address: _____

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Street Address: **2200 Mission College Boulevard**
City: **Santa Clara** State: **CA** ZIP: **95052**

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

Execution Date: **12/21/01, 12/21/01,** _____

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: **12/21/01**

A. Patent Application No.(s) _____
B. Patent No.(s) _____

Additional numbers attached? No Yes

6. Total number of applications and patents involved: **1**

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **Blakely, Sokoloff, Taylor & Zafman**
Internal Address: _____
Street Address: **12400 Wilshire Boulevard, 7th Floor**
City: **Los Angeles** State: **CA** ZIP: **90025**

7. Total Fee (37 CFR 3.41).....\$ **40.00**
 Enclosed
 Authorized to be charged to deposit account

8. Deposit Account Number: **02-2666**
(Attach duplicate copy of this page if paying by deposit account)

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01 FC:581 40.00 DP

9. Statement and signature.
To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Walter T. Kim, Reg. No. 42,731 *Walter T. Kim* **1/2/02**
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: **3**

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner of Patents, Box Assignments
Washington, D.C. 20231

Attorney Docket No. 42390P12979
(5/27/1997)

PATENT
REEL: 012456 FRAME: 0022

JCS2 U.S. PTO
10/037915
01/02/02

ASSIGNMENT

(For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Andrew M. Volk; Ronald W. Swartz

hereby sell, assign, and transfer to:

Intel Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California 95052, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions, improvements and/or designs that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled:

FRACTIONAL DIVISORS FOR MULTI-PHASE PLL SYSTEMS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions, improvements and/or designs; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions, improvements and/or designs; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions, improvements and/or designs in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, improvements and/or designs; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions, improvements and/or designs and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said inventions, improvements and/or designs, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

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

Each inventor: Please also list the date that you signed the accompanying DECLARATION & POWER OF ATTORNEY

Each Inventor: Please Sign and Date Below:

Dec 21, 2001
Date
Andrew M. Volk
Name: **Andrew M. Volk**

Dec 21, 2001
Date
Andrew M. Volk
Name: **Andrew M. Volk**

Dec 21, 2001
Date
Ronald W. Swartz
Name: **Ronald W. Swartz**

Dec 21, 2001
Date
Ronald W. Swartz
Name: **Ronald W. Swartz**

Date Name:

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Assignment Document Return Address:
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