

11-27-1998

NOV 17 1998



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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

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11/23/1998 ABEL/HHM 00000044 09164155

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NOV 17 1998

Correspondent Name and Address

Area Code and Telephone Number

602-382-6270

Name **Mark M. Takahashi**

Address (line 1) **Snell & Wilmer, L.L.P.**

Address (line 2) **One Arizona Center**

Address (line 3) **400 E. Van Buren**

Address (line 4) **Phoenix, Arizona 85004**

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

2

Application Number(s) or Patent Number(s)

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/164,155						

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

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PCT		PCT		PCT	

Number of Properties

Enter the total number of properties involved.

#

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

40.00

Method of Payment:

Enclosed

Deposit Account

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

19-2814

Authorization to charge additional fees:

Yes

No

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. Charges to deposit account are authorized, as indicated herein.

Mark M. Takahashi - Reg. No. 38,631

11-10-98

Name of Person Signing

Signature

Date

ASSIGNMENT

UTILITY PATENT

WHEREAS, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR") of the address(es) indicated below, has/have invented subject matter disclosed in the United States patent application entitled: METHOD AND APPARATUS FOR IDENTIFYING THE ENCODING TYPE OF A CENTRAL OFFICE CODEC, which was filed on September 30, 1998 as Serial Number 09/164,155;

AND WHEREAS, ROCKWELL SEMICONDUCTOR SYSTEMS, INC. (hereinafter "ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the State of Delaware, having its principal place of business and mailing address at 4311 Jamboree Road, Newport Beach, California 92660 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the invention as described in the aforesaid application, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND HEREBY AGREES to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

First inventor: Xuming Zhang

Signature:  Date: 10/30/98

Residence address: 26462 M. Kanos Drive, Mission Viejo, CA 92692

Second inventor: Zhenyu Zhou

Signature: [Signature] Date: Oct. 30, 1998

Residence address: 9 Maryland, Irvine, CA 92606

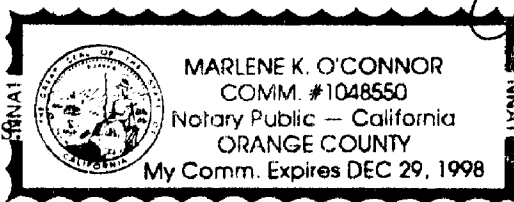
STATE OF California)
) ss.
COUNTY OF Orange)

On this 30th day of October, 1998, before me, a notary public in and for said county, appeared Xuming Zhang, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

My commission expires

Dec. 29, 1998



[Signature]
Notary Public

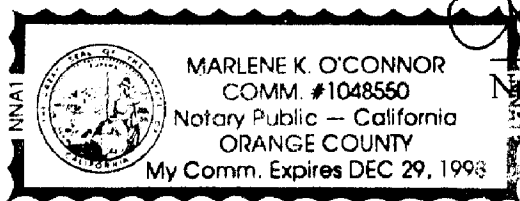
STATE OF California)
) ss.
COUNTY OF Orange)

On this 30th day of October, 1998, before me, a notary public in and for said county, appeared Zhenyu Zhou, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

My commission expires:

Dec. 29, 1998



[Signature]
Notary Public