To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy there  1. Name of conveying party(les):  2. Name and address of receiving party(les):  3. Nature of conveyance:  3. Nature of conveyance:  3. Assignment	OMB No. 0651-0011 (exp. 4/94)		TS ONLY	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Off
### Additional name(s) of conveying party(ies) attached?   vec   No    Nature of conveying party(ies) attached?   vec   No   Nature of conveying party(ies) attached?   vec   No   Nature of conveying party(ies) attached?   vec   No   Nature of conveying party(ies) attached?   vec   No   Nature of conveying party(ies) attached?   vec   No   Nature of conveying party(ies) attached?   vec   No   Nature of conveying party(ies) attached?   vec   No   Nature of conveying party(ies) attached?   vec   No   Chiyoda-ku, Tokyo, Japan   City:   State:   ZiP:     Additional name(s) & address(es) attached?   vec   No   Additional name(s) & address(es) attached?   vec   No   Nature of papilication in its     A. Patent Application No.(s)   S. Patent No.(s)     O7/419,399   5,265,055; 5,617,365; 5,815,448; 5,966,336; 6,104,647, 6,337,817     Additional nameber attached?   vec   No   Name: Antonelli, Terry, Stout & Kraus   No   Name: Antonelli, Terry, Stout & Kraus   No   Street Address: 1300 N. Seventeenth St.   Suite 1800   No State:   VA ZIP: 22209   No   No Seventeenth St.   No Sevent		▼	▼	·
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Additional name(s) of conveying partylies) attached?	i. Name of conveying party(les):		2. Name and address of received	ving party(ies):
Additional name(s) of conveyance:    Assignment	Hitachi, Ltd.		Name: Renesas Tec	hnology Corp.
3. Nature of conveyance:    Assignment			Internal Address:	
Street Address: 4-1, Maxumouchi 2-Chome    Security Agreement	Additional name(s) of conveying party(ies) attached?	Yes X No		
Security Agreement Change of Name  Chiyoda-ku, Tokyo, Japan  City: State: ZIP:  Additional name(s) & address(es) altached? Yes: No  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)  07/419,399  Additional numbers attached? Yes: No  8. Patent No.(s)  5,265,055; 5,617,365; 5,815,448; 5,966,336; 6,104,647, 6,337,817  Additional numbers attached? Yes: No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Antonelli, Terry, Stout & Kraus  Internal Address:  7. Total fee (37 CFR 3.41)	3. Nature of conveyance:			
City: State: ZIP:  Execution Date: December 20, 2004  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)  07/419,399  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Antonelli, Terry, Stout & Kraus  Internal Address:  Street Address: 1300 N. Seventeenth St.  Suite 1800  City: Arlington State: VA ZIP: 22209  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 party in Kraus  City: State: ZIP: Additional name(s) & address(es) allached? I Yes INo  B. Patent No.(s)  5. 265, 055; 5.617, 365; 5.815, 448; 5.966, 336; 6.104, 647, 6,337, 817  Additional name(s) & address(es) allached? I Yes INo  B. Patent No.(s)  5. 265, 055; 5.617, 365; 5.815, 448; 5.966, 336; 6.104, 647, 6,337, 817  Additional name(s) & address(es) allached? I Yes INO  B. Patent No.(s)  5. 265, 055; 5.617, 365; 5.815, 448; 5.966, 336; 6.104, 647, 6,337, 817  Additional name(s) & address(es) allached? I Yes INO  B. Patent No.(s)  5. 265, 055; 5.617, 365; 5.815, 448; 5.966, 336; 6.104, 647, 6,337, 817  Additional name(s) & address(es) allached? I Yes INO  B. Patent No.(s)  5. 265, 055; 5.617, 365; 5.815, 448; 5.966, 336; 6.104, 647, 6,337, 817  Additional name(s) & address(es) allached? I Yes INO  B. Patent No.(s)  5. 265, 055; 5.617, 365; 5.815, 448; 5.966, 336; 6.104, 647, 6,337, 817  Additional name(s) & address of patents of the application is:  6. Total number of applications and patents involved: Ino address of	Me	erger	Street Address: 4-1, Ma	runouchi 2-Chome
City: State: ZIP:  Execution Date: December 20, 2004  Additional name(s) & address(es) attached? Yes No  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)  07/419,399  Additional numbers attached? S. 6, 265, 055; 5, 617, 365; 5, 815, 448; 5, 966, 336; 6, 104, 647, 6, 337, 817  Additional numbers attached? Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Antonelli, Terry, Stout & Kraus Internal Address:  Enclosed  Authorized to be Charged to deposit account  Street Address: 1300 N. Seventeenth St.  Suite 1800  City: Arlington State: VA ZIP: 22209  City: Arlington State: VA ZIP: 22209  City: Arlington State: VA ZIP: 22209  Statement and signature.  To the best of my knowledge and belief, the foregoing information is true end correct and any atteched copy is a true copy of the original document.  Melvin Kraus	Security Agreement Ch	ange of Name	Chiyoda-ku, Tokv	o. Japan
Execution Date: December 20, 2004  Additional name(s) & address(es) altached? Yes No  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)  07/419,399  Additional numbers attached? B. Patent No.(e)  5, 265, 055; 5, 617, 365; 5, 815, 448; 5, 966, 336; 6, 104, 647, 6, 337, 817  Additional numbers attached? Yes No  Additional numbers attached? No. Seventeenth St. Suite 1800  City: Arlington State: VA zip: 22209  City: Arlington State:	Other		·	
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)  5,265,055; 5,617,365; 5,815,448; 5,966,336; 6,104,647, 6,337,817  Additional numbers attached? Yes No  Additional numbers attached? Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Antonelli, Terry, Stout & Kraus internal Address:  Internal Address:  Enclosed  Authorized to be Charged to deposit account  Street Address: 1300 N. Seventeenth St.  Suite 1800  City: Arlington  State: VA ZIP: 22209  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.  Melvin Kraus	Execution Date: December 20, 20	04		
City: Arlington  State: VA ZIP: 22209  Statement and signature  To the best of my knowledge and belief, the foregoing information is true end correct and any attached copy is a true copy of the orlained document.  Melvin Kraus  6. Total number of applications and patents involved:  7. Total fee (37 CFR 3.41)	07/419,399	Additional numbers atta	5,966,336; 6,104,647	; 5,815,448; , 6,337,817
Name: Antonelli, Terry, Stout & Kraus  Internal Address:  Internal Address:  Street Address: 1300 N. Seventeenth St.  Suite 1800  City: Arlington  State: VA ZIP: 22209  Statement and signature.  To the best of my knowledge and belief, the foregoing information is true end correct and any attached copy is a true copy of the original document.  Melvin Kraus  7. Total fee (37 CFR 3.41)	Name and address of party to whom concerning document should be mailed:			7.
Street Address: 1300 N. Seventeenth St.  Suite 1800  City: Arlington  State: VA ZIP: 22209  Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy of the original document.  Melvin Kraus  Enclosed  Authorized to be Excess Fees  Authorized to be charged to deposit account  8. Deposit account number:  01-2135  (Attach duplicate copy of this page if paying by deposit account  DO NOT USE THIS SPACE	Name: Antonelli, Terry, Stou	ıt & Kraus		· · · · · · · · · · · · · · · · · · ·
Street Address: 1300 N. Seventeenth St.  Suite 1800  City: Arlington  State: VA ZIP: 22209  Concerns account number:  O1-2135  (Attach dupticate copy of this page if paying by deposit account number:  DO NOT USE THIS SPACE  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.  Melvin Kraus	Internal Address:		7. Total fee (37 CFR 3.41)	\$ <u>280.00</u>
Street Address: 1300 N. Seventeenth St.  Suite 1800  City: Arlington  State: VA ZIP: 22209  (Attach duplicate copy of this page if paying by deposit account DO NOT USE THIS SPACE  Statement and signature.  To the best of my knowledge and belief, the foregoing information is true end correct and any attached copy is a true copy of the original document.  Melvin Kraus			☑ Enclosed	
Suite 1800  City: Arlington State: VA ZIP: 22209 (Attach duplicate copy of this page if paying by deposit account DO NOT USE THIS SPACE  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.  Melvin Kraus			Authorized to be charged	to deposit account
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Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 2023

(Form PTO-1595--Recordation Form Cover Sheel - page 1 of 3)

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## <u>ASSIGNMENT</u>

WHEREAS, Hitachi, Ltd. is the exclusive owner, by assignment, of the following applications for Letters Patent of the United States of America and/or Letters Patent:

## Listed in Attachment A

WHEREAS, Renesas Technology Corp., a corporation organized under the laws of Japan, having its place of business at 4-1, Marunouchi 2-chome, Chiyodaku, Tokyo, Japan, is desirous of acquiring the entire right, title and interest in, to and under the inventions which are at least covered by the applications and/or Letters Patent as listed in Attachment A, as now owned by Hitachi, Ltd.

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, the said Hitachi, Ltd. has sold, assigned, transferred and set over and does hereby sell, assign, transfer and set over to the said Renesas Technology Corp., the entire right, title and interest of said Hitachi, Ltd. in the said inventions, including applications for Letters Patent and/or Letters Patent for which benefit under 35 U.S.C. §120 has been claimed in said applications and/or Letters Patents as listed in Attachment A, and where said applications and/or Letters Patent as listed in Attachment A include a Terminal Disclaimer with respect to commonly-assigned applications and/or Letters Patent, the entire right, title and interest of said Hitachi, Ltd. with respect to said commonlyassigned applications and/or Letters Patent to provide for common ownership thereof, and any reissue or reissues of said Letters Patents which may be granted, any continuations and divisions thereof and any Letters Patent issued or issuing thereon, the same to be held and enjoyed by said Renesas Technology Corp. for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives, to the end of the term for which said Letters Patents of the United States are granted or reissued as fully and entirely as the

same would have been held and enjoyed by the said Hitachi, Ltd., if this assignment and sale had not been made.

Hitachi, Ltd.

Date: 12/20, 2004

Yasuo ŚAKUTA, Patent Attorney

Title: Executive Officer

Intellectual Property Group (Authorized Signing Officer)

## ATTACHMENT A

- US Application Serial No. 07/419,399, filed October 10, 1989;
- US Patent 5,265,055, Issued November 23, 1993;
- US Patent 5,617,365, Issued April 1, 1997;
- US Patent 5,815,448, Issued September 29, 1998;
- US Patent 5,966,336, Issued October 12, 1999;
- US Patent 6,104,647, Issued August 15, 2000; and
- US Patent 6,337,817, Issued January 8, 2002.

**RECORDED: 12/30/2004** 

PATENT REEL: 015509 FRAME: 0465