

Docket No.: 60188-329  To the Honorable Commissioner for Patents and Trademarks. Please record the attached original documents or copy thereto:  1. Name of Conveying Party(ies):  Teruhito OHNIKI, Kolichi HASEGAWA, and Tohru SAITOH  4:1503  At ditional name(s) of conveying party(ies) attached? Yes  Assignment   Merger   Change of Name   Other  Security Agreement   Change of Name   Other  Ex cution Date: April 8, 2003  Additional name(s) & address(e) attached? Yes  4. Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: April 8, 2003  A Patent Application No(s).  B. Patent No(s).  Additional numbers attached? Yes  5. Name and address of party to whom correspondence correct and address of party to whom correspondence  Correct Cerming document should be mailed:  Name: MCDERMOTT, WILL & EMERY internal Address:  Street Address: 600 13th Street, N.W.  DO NOT USE THIS SPACE  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.					
To the Honorable Commissioner for Patents and Trademarks. Please record the attached original documents or copy thereto:  1. Name of Conveying Party(ies):  Teruhito OHNISHI, Koichiro YUKI, Shigeki SAWADA, Ri tichiro SHIMIZU, Koichi HASEGAWA, and Tohru  SAITOH  4-15-03  Additional name(s) of conveying party(ies) attached?   Ves    3. Nature of Conveyance:   Assignment   Merger     Security Agreement   Change of Name     Other     Evation Date: April 8, 2003  4. Application number(s) or patent number(s):     If the document is being filed together with a new application, the execution date of the application is: April 8, 2003  Additional name(s) & address(e) attached?   Ves     Same and address of party to whom correspondence or cerning document should be mailed:  Name: MCDERMOTT, WILL & EMERY     Internal Address: 600 13th Street, N.W.  2 Total fee (37 CFR 3.41)   \$40.00     Enclosed   Authorized to be charged to deposit account number: 500417    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.	FORM PTO-1596			ET U.S. D	
1. Name of Conveying Party(ies): Teruhito OHNISHI, Koichiro YUKI, Shigeki SAWADA, Ki ithiro SHIMIZU, Koichi HASEGAWA, and Tohru  Address: I006, Oaza Kadoma, Address: I006		102429	523		Patent and Trademark Office
1. Name of Conveying Party(ies): Teruhito OHNISHI, Koichiro YUKI, Shigeki SAWADA, Ki ithiro SHIMIZU, Koichi HASEGAWA, and Tohru  Address: I006, Oaza Kadoma, Address: I006	To the Honorable Commissioner for Pa	tents and Trademarks	: Please reco	ord the attached original docu	uments or copy thereto:
Kt itchiro SHIMIZU, Koichi HASEGAWA, and Tohru SAITOH  4-15-03 Address: 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN  Additional name(s) of conveying party(ies) attached?			t		
Ki tichiro SHIMIZU, Koichi HASEGAWA, and Tohru  SAITOH  4/15/03  At ditional name(s) of conveying party(ies) attached?	Teruhito OHNISHI, Koichiro YUKI, S	higeki SAWADA,	Name:	MATSUSHITA ELECTRIC	INDUSTRIAL CO., LTD.
Address: 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN    Address: 1006, Oaza Kadoma,   Kadoma-shi, Osaka 571-8501 JAPAN	Keiichiro SHIMIZU, Koichi HASEGAWA	A, and Tohru			
At ditional name(s) of conveying party(ies) attached?	SAITOH	4.1503	Address:	1006, Oaza Kadoma.	0 T TO
Nature of Conveyance:    Assignment	Acditional name(s) of conveying party(ies) a	ttached?  Yes			30. 30.
Assignment	3 Nature of Conveyance:			Osaka 571-8501 JAPAN	≥ <del>.</del>
Other   Execution Date: April 8, 2003   Additional name(s) & address(es) attached?   Yes	⊠ Assignment □	Merger			96/
Other   Execution Date: April 8, 2003   Additional name(s) & address(es) attached?   Yes	Security Agreement	-			, S
Additional name(s) & address(es) attached?	Other	· ·			
4 Application number(s) or patent number(s):  If the document is being filed together with a new application, the execution date of the application is: April 8, 2003  A. Patent Application No(s).    Additional numbers attached?	Execution Date: April 8, 2003				
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A. Patent Application No(s).    Additional numbers attached?	4 Application number(s) or patent number(s	s):			
Additional numbers attached? Yes  5. Name and address of party to whom correspondence co cerning document should be mailed: Name: MCDERMOTT, WILL & EMERY (Internal Address: Authorized to be charged to deposit account (Internal Address: Authorized to be charged to deposit account (Internal Address: Authorized to be charged to deposit account (Internal Address: Authorized to be charged to deposit account (Internal Address: South (Internal Address: Authorized to be charged to deposit account (Internal Address: South (Internal Address: Authorized to be charged to deposit account (Internal Address: South (Internal Addr	If the document is being filed together wit	th a new application, t	the execution	date of the application is:	April 8, 2003
Additional numbers attached? ☐ Yes  5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address:  Street Address: 600 13 <sup>th</sup> Street, N.W.  Street Address: 600 13 <sup>th</sup> Street, N.W.  DO NOT USE THIS SPACE  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.	A. Patent Application No(s).		B. Patent N	No(s).	•
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5. Name and address of party to whom correspondence correspondence correspondence correspondence solutions and patents involved:  Name: MCDERMOTT, WILL & EMERY [Internal Address: Part	(21170)				
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Internal Address:  Street Address: 600 13 <sup>th</sup> Street, N.W.  Deposit account number: 500417  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.	cos cerning document should be mailed:				
Internal Address:    Street Address: 600 13 <sup>th</sup> Street, N.W.   8. Deposit account number: 500417   Sity: Washington State: DC Zip: 20005   DO NOT USE THIS SPACE    DO NOT USE THIS SPACE   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.	Name: MCDERMOTT, WILL & EME	RY	7. Total fee	e (37 CFR 3,41)	\$40.00
Street Address: 600 13 <sup>th</sup> Street, N.W.  Street Address: 600 13 <sup>th</sup> Street, N.W.  Deposit account number:  500417  DO NOT USE THIS SPACE  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.	Internal Address:			` ,	4.0.00
Street Address: 600 13 <sup>th</sup> Street, N.W.  Sity: Washington State: DC Zip: 20005  DO NOT USE THIS SPACE  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.			_		osit account
Sity: Washington State: DC Zip: 20005  DO NOT USE THIS SPACE  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.	Street Address: 600 13 <sup>th</sup> Street, N.W.		į		
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Michael E. Fogarty, 36,139  April 15, 2003	Michael E. Fogarty, 36,139	+			April 15, 2003
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> **PATENT** REEL: 013981 FRAME: 0841

Attorney	Docket	No.	

## ASSIGNMENT

	WHE	KEAS,	Terunito Offinishi, Koleniro Yuki, Smgeki SA	<u>WADA,</u>
unders	igned)	has (have) in	ichi HASEGAWA and Tohru SAITOH (hereinafter designat vented certain new and useful improvements in SEMICOND) undersigned has (have):	
	(a)	filed an app	olication for Letters Patent of the United States of America on having Serial No.	<u>.;</u> or
	(b)		n application for Letters Patent of the United States of Americated below; and	ca on the
		,	Matsushita Electric Industrial Co., Ltd.	of
<u>1006,</u>	<u>Oaza I</u>	<u>Kadoma, Ka</u>	doma-shi, Osaka 571-8501, Japan	
desiro	us of a	equiring the	representatives and assigns (hereinafter designated as the As entire right, title and interest in and to said invention and in a be granted therefor in the United States of America;	

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have)sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to the application and any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

PATENT REEL: 013981 FRAME: 0842 The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to the Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the Assignee, as Assignee of the entire interest, and hereby convenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

This Assignment has been executed by the undersigned on the date(s) indicated.

Date:	Abril 8, 2005	terubito Phnishi
		Teruhito OHNISHI
Date:	<u> </u>	Krediro Zuki
		Koichiro YUKI
Date:	April 8, 2003	Sligeki Sawada
		Shigeki SAWADA
Date:	April 8, 2003 ,	<u> Keichiro Shimizu</u> Keiichiro SHIMIZU
		Keiichiro SHIMIZU
Date:	April 8, 2003	Koichi Hasegawa
	,	Koichi HASEGAWA
Date:	bril 8, 2003	Johne Saitol
		Tohru SAITOH
Date:	,	
Date <sup>.</sup>		

RECORDED: 04/15/2003

PATENT REEL: 013981 FRAME: 0843