\$40.00 12389

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Toshiyuki TAKEWAKI	01/25/2005
Mari WATANABE	01/25/2005

RECEIVING PARTY DATA

Name:	NEC Electronics Corporation	
Street Address:	1753 Shimonumabe	
Internal Address:	Nakahara-ku, Kawasaki	
City:	Kanagawa	
State/Country:	JAPAN	
Postal Code:	211-8668	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12389634

CORRESPONDENCE DATA

Fax Number: (703)685-0573

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7035212297

Email: yreynolds@young-thompson.com

Correspondent Name: YOUNG & THOMPSON Address Line 1: 209 Madison Street

Address Line 2: Suite 500

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	8074-1023-1

NAME OF SUBMITTER: Eric Jensen

Total Attachments: 1

source=ASSIGNMENT#page1.tif

PATENT

500786799 REEL: 022289 FRAME: 0439

Pacey 11 2 25

ASSIGNMENT

Toshiyuki TAKEWAKI and Mari WATANABE each of Kanagawa, Japan hereafter referred to as "applicant(s)", have invented certain new and useful improvements in SEMICANDUCTA DEVICE AND METHOD FOR MANUFACTURE THE SAME for which an application for a United States patent was executed currently herewith, WHEREAS, NEC Electronics Corporation, whose address is, 1753 Shimonumah Nakahara-ku, Kawasaki, Kanagawa 211-8668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same, NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receip whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby self, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date Japany 25, 2005 Date Japany 25, 2005 WITNESS(ES) Date Japany 25, 2005 Signature) Mari WATANABE (signature) Mari WATANABE (signature) Mari WATANABE	WHEREAS,		
hereafter referred to as "applicant(s)", have invented certain new and useful improvements in SENICONDUCTOR DEVICE AND METHOD FOR MANUTACIDAR THE CAME for which an application for a United States patent was executed currently herewith, WHEREAS, NEC Electronics Corporation, whose address is, 1753. Shimonumab Nakahara-ku, Kawasaki, Kanagawa 211-8668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same, NOW. THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the recei whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2015 (signature) Theoretic (signature) Toshiyuki TAKEWAKI (signature) Mari WATANABE (signature) WITNESS(ES) Date January 25, 2015 (signature) Gignature)		Toshiyuki TAKEWAKI	and Mari WATANABE
hereafter referred to as "applicant(s)", have invented certain new and useful improvements in SEMICADUCTOR TOPICE AND METHOD FOR MANIFACTURING THE CAME— for which an application for a United States patent was executed currently herewith. WHEREAS, NEC Electronics Corporation, whose address is, 1753. Shimonumab Nakahara-ku, Kawasaki, Kanagawa 211-8668, Japan, hereinafter referred to as "assignee(s)". desirous of acquiring the entire right, title and interest in and to the same, NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the recei whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date Japany 25, 2005 (signature) Toshiyuki TAKEWAKI (signature) Mari WATANABE (signature) WITNESS(ES) Date Japany 25, 2005 (signature)		J. 170.	yan
hereafter referred to as "applicant(s)", have invented certain new and useful improvements in SEMICONDUCTOR DEVICE AND METHOD FOR MANIFACTORING THE SAME for which an application for a United States patent was executed currently herewith, WHEREAS, NEC Electronics Corporation, whose address is, 1753 Shimonumab Nakahara-ku, Kawasaki, Kanagawa 211-8668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same, NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the recei whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25 2005			
for which an application for a United States patent was executed currently herewith, WHEREAS, NEC Electronics Corporation, whose address is, 1753 Shimonumab Nakahara-ku, Kawasaki, Kanagawa 211.8668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same, NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receip whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date Japany 25, 2015 Suital Claration of the Shimonumable and Authority and Autho			
for which an application for a United States patent was executed currently herewith, WHEREAS, NEC Electronics Corporation, whose address is, 1753 Shimonumab Nakahara-ku, Kawasaki, Kanagawa 211.8668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same, NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receip whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date Japany 25, 2015 Suital Claration of the Shimonumable and Authority and Autho	hereafter referre	ed to as "applicant(s)", ha	ve invented certain new and useful improvements in
WHEREAS, NEC Electronics Corporation, whose address is, 1753 Shimonumab Nakahara-ku, Kawasaki, Kanagawa 211-8668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same. NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receing whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2015		SEMICONDUCTOR DEVICE	AND METHOD FOR MANNEACTURING THE SAME
WHEREAS, NEC Electronics Corporation, whose address is, 1753 Shimonumab Nakahara-ku, Kawasaki, Kanagawa 211-8668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same. NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receing whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2015	for which	an application for a Unite	ed States patent was executed currently because
Makanara-Ku, Kawasaki, Kanagawa 211-R668, Japan, hereinafter referred to as "assignee(s)", desirous of acquiring the entire right, title and interest in and to the same, NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00),	WHERE	AS, NEC Electronics (Corporation, whose address is 1753 chim and the
NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the sum of Ten Dollars (\$10.00), the receipment of the sum of Ten Dollars (\$10.00), the sum o	Nakahara-ku, K	awasaki, Kanagawa 21	1-8668. Japan hereinafter referred to as "assistance (a)"
NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receip whereof is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2005	desirous of acqu	iring the entire right, title	and interest in and to the same
whereor is acknowledged, and other good and valuable consideration, applicant(s), by these presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2005	NOW, T	HEREFORE, in conside	ration of the sum of Ten Dollars (\$40.00) #
the said invention in the United States and the entire right, title and interest in and to any and a patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2005	whereof is ackr	nowledged, and other g	ood and valuable consideration, applicant(s), to receip
patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25 2005	presents, do(es)	hereby sell, assign and tr	ransfer unto said assignee(s) the full and evolution with the
patents which may be granted therefore in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2005	the said inventio	n in the United States ar	nd the entire right, title and interest in and to any and all
may be granted, as fully and entirely as the same would have been held by applicant(s) had this assignment and sale not been made. Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2005	patents which ma	ay be granted therefore i	in the United States, for its sole use and behave and for
Trademarks to issue said United States patents to said assignee(s). Date January 25, 2005 Date	the use and beh	oof of its legal represent	atives, to the full end of the term for which and to
Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee(s). Date January 25, 2005 Date January 25, 2005 Date	may be granted,	as fully and entirely as	the same would have been hold by applicants
Date January 25, 2005	assignment and s	sale not been made.	house have been held by applicant(s) had this
Date January 25, 2005	Applicant(s) hereby authorize(s)	and request(s) the Commissioner of D
Date January 25, 2005	Trademarks to iss	sue said United States pa	stents to said assignee(s).
Date January 25, 2005,	Date January 25, 2	<u></u>	Thyuhe Japewahi
WITNESS(ES) Date January 25, 2005 Date January 25, 2005 (signature)	Date January 25,	2005	(signature) Toshiyuki TAKEWAKI Mari Watanahe
Date January 25, 2005, (signature)	Date	7	(signature) Mari WATANABE
Date January 25, 2005, Clarical (signature)			(signature)
Date January 25, 2005 (signature)	WITNESS(ES)		
Date January 25, 2005	Date January 25,	2005	Witeli Clkai
(history)	Date January 25.	2005	(signature)
(signature)			(signature)

PATENT REEL: 022289 FRAME: 0440

RECORDED: 02/20/2009