## 01-21-1999

NRD 1-12-99 IIII III III III III III III III III			
FORM PTO-1596		ET	U.S. DI PARTMENT OF COMMERC
1200 AA (1209 VI)	: OE	121	Patent and Trademark Office
Docket No.: 49657-280 100947			
To the Honorable Commissioner of Patents and Trademarks:	Please reco	ord the attached or	iginal documents or copy thereto:
Name of Conveying Party:	2. Name a	and address of rece	eiving party
Гakashi ITOl	Name:	Mitsubishi Denl	ki Kabushik Kaisha
	Address:	2-3, Marunouch	ti 2-chome
additional name(s) of conveying party(ies) attached? [ Yes		Chiyoda-ku	Sign
Nature of Conveyance:		Tokyo 100-8310	0, JAPAN
∑ Assignment ☐ Merger			20 80
Security Agreement [] Change of Name			
Other			
Execution Date: December 22, 1998			
	Additional	name(s) & addre	ss(es) attached? Yes
Application number(s) or patent number(s):			
f the document is being filed together with a new application,	the executio	n date of the appl	ication is: December 22, 1998
A Patent Application No(s).	B. Patent	No(s).	
Additional number	ers attached	9 [] Ves	
Additional nu nb			
. Name and address of party to whom correspondence			ions and patents involved:
. Name and address of party to whom correspondence oncerning document should be mailed:	6. Total m	umber of applicat	·
. Name and address of party to whom correspondence oncerning document should be mailed:  Name. MCDERMOTT, WILL & EMERY	<ul><li>6. Total m</li><li>7. Total fe</li></ul>	umber of applications (37 CFR 3.41)	ions and patents involved:
. Name and address of party to whom correspondence oncerning document should be mailed:	6. Total m 7. Total fe	umber of applications (37 CFR 3.41) closed	\$40.00
Name and address of party to whom correspondence oncerning document should be mailed:  Name: MCDERMOFT, WILL & EMERY  Internal Address:	6. Total m  7. Total fe  ☐ Enc	umber of applications of the control	\$40.00 arged to deposit account
. Name and address of party to whom correspondence oncerning document should be mailed:  Name. MCDERMOTT, WILL & EMERY	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit	umber of application of the (37 CFR 3.41) closed thorized to be chart account number:	\$40.00 arged to deposit account
Name and address of party to whom correspondence oncerning document should be mailed:  Name MCDERMOTT, WILL & EMERY Internal Address:  Street Address 600 13th Street, N.W.	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit	umber of applications of the control	\$40.00 arged to deposit account
. Name and address of party to whom correspondence oncerning document should be mailed:  Name - MCDERMOFT, WILL & EMERY  Internal Address:	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit	umber of application of the (37 CFR 3.41) closed thorized to be chart account number:	\$40.00 arged to deposit account
Name and address of party to whom correspondence oncerning document should be mailed:  Name MCDFRMOTT, WILL & EMERY Internal Address:  Street Address 600 13th Street, N.W.  City: Washington State: DC Zip: 20005	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit	umber of applications of the control	\$40.00 arged to deposit account
Name and address of party to whom correspondence oncerning document should be mailed:  Name - MCDERMOTT, WILL & EMERY Internal Address:  Street Address - 600 13th Street, N.W.  City: Washington State: DC Zip: 20005	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit	umber of applications of the control	\$40.00 arged to deposit account
Name and address of party to whom correspondence oncerning document should be mailed:  Name MCDERMOTT, WILL & EMERY Internal Address:  Street Address 600 13th Street, N.W.  City: Washington State: DC Zip: 20005  DO NOT US. Statement and signature.	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit  50  SE THIS SP.	umber of applications of appli	\$40.00 account
Name and address of party to whom correspondence oncerning document should be mailed:  Name	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit  50  SE THIS SP.	umber of applications of appli	\$40.00 account
Name and address of party to whom correspondence concerning document should be mailed:  Name MCDFRMOTT, WILL & EMERY Internal Address:  Street Address 600 13th Street, N.W.  City: Washington State: DC Zip: 20005  DO NOT US	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit  50  SE THIS SP.	umber of applications of appli	\$40.00 account
Name and address of party to whom correspondence oncerning document should be mailed:  Name MCDFRMOTT, WILL & EMERY Internal Address:  Street Address 600 13th Street, N.W.  City: Washington State: DC Zip: 20005  DO NOT Use the best of my knowledge and belief the foregoing inforthe original document.	6. Total m  7. Total fe  ☐ End  ☐ Au  8. Deposit  50  SE THIS SP.	umber of applications of appli	\$40.00 arged to deposit account seed to deposit seed t
Name and address of party to whom correspondence concerning document should be mailed:  Name. MCDFRMOTT, WILL & EMERY Internal Address:  Street Address = 600 13th Street, N.W.  City: Washington State: DC Zip: 20005  DO NOT U:  Notice the best of my knowledge and belief the foregoing inforthe original document.  Stephen A. Becker, 26,527	6. Total m 7. Total fe	umber of applications of applications of applications of applications of applications of applications of account number: 10417  ACE	s40.00 arged to deposit account and any attached copy is a true copy.  January 12, 1999
Name and address of party to whom correspondence concerning document should be mailed:  Name MCDFRMOTT, WILL & EMERY Internal Address:  Street Address 600 13th Street, N.W.  City: Washington State: DC Zip: 20005  DO NOT Use the best of my knowledge and belief the foregoing infort the original document.  Stephen A. Becker, 26,527  Name and Registration No. of Person Signing	6. Total m  7. Total fe	umber of applications of appli	\$40.00 arged to deposit account seed to deposit seed t

01/20/1999 JWATKINS 00000065 500417 09228980 01 FC:58: 40.00 CH

PATENT REEL: 9701 FRAME: 0117 Docket No.:

## **ASSIGNMENT**

(1) Tã	kashi ITOU	(4)	(7)	
(2)		(5)	(8)	
(3)		(6)	(9)	
who hav	e made a certain new and i	useful invention, hereby sell as		
_Mits	ubishi Denki Ka	bushiki Kaisha o:		
2-3,	Marunouchi 2-cl	home, Chiyoda-ku	TOKYO 100-8310 JAPAN	
its succe as define	ssors and assigns (hereinafed in 35 U.S.C. 100 in the	ter designated "ASSIGNEE") th invention entitled	e entire right, title and interest for	the United States of America
S W	I CCHABLE MULTI E	BIT SEMICONDUCTOR M	MEMORY DEVICE	
(a) for	which an application for Ur	nited States Letters Parent was f	iled on, a	
Serial IN	0.	; or		
<b>(b</b> ) for	which an application for U	nited States Letters Patent was e	executed on December 22,	1998
continua Industria	tions, or continuations-in-p  I Property to the said AS: ned agree that the attorneys	sart thereof, and the right to all to	ny and all extensions, divisions, a benefits under the International Co SIGNEE, its successors, assigns hall hereafter act on behalf of said	nvention for the Protection of
successo based the	ining original, divisional, re rs, assigns and legal represe creon, growing out of or rela	eissued or extended Letters Fate ntatives, and without further remi ated to the said invention; and to e	t, and to render all necessary assist nt of the United States, upon requal neration, in and to any improvement any papers by the said ASS otection and title in and to the inverse.	est of the said ASSIGNEE, its ints, and applications for patent IGNEE, its successors, assigns
successo based the and lega SIGNED	ining original, divisional, res, assigns and legal representeon, growing out of or relatives, deemed estonethed the dates indicated asignificant and inventors.	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requi Ineration, in and to any improveme Execute any papers by the said ASS	est of the said ASSIGNEE, its ints, and applications for patent IGNEE, its successors, assigns
based the and lega	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed en inventors indicated aside inventors	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requi- uneration, in and to any improvement execute any papers by the said ASS prection and title in and to the invi-	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam	ining original, divisional, rest, assigns and legal representations, growing out of or related representatives, deemed established the dates indicated asigns the dates indicated asigns.	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed established aside inventors  [at wire Legitarian Legitarian Lakashi I TOU]	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam  2) Nam	ining original, divisional, rers, assigns and legal representations, growing out of or relatives, deemed established asid inventors  [at why I town Takashi I TOU  established in the control of the cont	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam  2) Nam	ining original, divisional, rers, assigns and legal representations, growing out of or relatives, deemed established asid inventors  [at why I town Takashi I TOU  established in the control of the cont	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam  2) Nam  3) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed established asid inventors    On the dates indicated asid INVENTORS	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam 2) Nam 3) Nam 4) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed estimated asid inventors    On the dates indicated asid inventors   Output   Dealer	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam 2) Nam 3) Nam 4) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed estimated asid inventors    On the dates indicated asid inventors   Output   Dealer	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam  2) Nam  3) Nam  4) Nam  5) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed established asid inventors    on the dates indicated asid inventors     ast usign   bottom	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam  2) Nam  3) Nam  4) Nam  5) Nam  6) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed established asid inventors    On the dates indicated asid inventors   Out why   Lower     Out why   Lower	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega SIGNED  1) Nam  2) Nam  3) Nam  4) Nam  5) Nam  6) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed established asid inventors    On the dates indicated asid inventors   Out why   Lower     Out why   Lower	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and lega sIGNED  1) \[ \frac{Nam}{Nam} \] 2) \[ \frac{Nam}{Nam} \] 4) \[ \frac{Nam}{Nam} \] 5) \[ \frac{Nam}{Nam} \] 6) \[ \frac{Nam}{Nam} \]	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed established asid inventors    On the dates indicated asid inventors   Out why both   Takashi I TOU	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.
successo based the and legal SIGNED  1) Nam  2) Nam  3) Nam  4) Nam  5) Nam  6) Nam  7) Nam	ining original, divisional, res, assigns and legal representations, growing out of or relatives, deemed established asid inventors    On the dates indicated asid inventors   Out why both   Takashi I TOU	eissued or extended Letters Pate ntatives, and without further reme ated to the said invention; and to e ssential to ASSIGNEE's full pro-	nt of the United States, upon requirementation, in and to any improvement execute any papers by the said ASS prection and title in and to the investmental part of the investment of the investm	est of the said ASSIGNEE, its nts, and applications for patent IGNEE, its successors, assigns ention hereby transferred.

**RECORDED: 01/12/1999** 

PATENT REEL: 9701 FRAME: 0118