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FORM PTO-1596	1010000		MENT OF COMMERCE	
1-31-92 Docket No.: 57454-212	TENTS ONLY	Pate	ent and Trademark Office	
To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto:				
Name of Conveying Party(ies):		2. Name and address of receiving party(ies):		
Tadayuki SHIMIZU, Masaki TSUKUDE and Minoru	Name: MIT			
SENDA ()				
10/07/0/	Address: 2-3,	Marunouchi 2-chome	0	
Additional name(s) of conveying party(ies) attached? \(\subseteq \text{ Y}	es Chiy	yoda-ku	7-7- =	
3. Nature of Conveyance:		yo 100-8310, JAPAN	s. [69]	
			97.60	
☐ Security Agreement ☐ Change of Na:	ne		000	
☐ Other			Ö	
Execution Date: August 6, 2001				
	Additional name	e(s) & address(es) attached?	Yes	
4. Application number(s) or patent number(s):	9/97	1674		
If the document is being filed together with a new application	ation, the execution date	of the application is: Aug	rust 6, 2001	
A. Patent Application No(s).	B. Patent No(s).			
	_			
Additional numbers attached? Yes				
5. Name and address of party to whom correspondence	6. Total number	of applications and patents in	nvolved: 1	
concerning document should be mailed:				
Name: MCDERMOTT, WILL & EMERY	7. Total fee (37		\$40.00	
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Gene Z. Rubinson, 33,351	Sine 3 Rubin	van 0	ctober 8, 2001	
Name and Registration No. of Person Signing	Signature		Date	
	Total number of p	pages comprising cover sheet:	1	
CMB No. 0851-0011 (exp. 4/94)				

10/18/2001 GTON11 00000157 500417 09971694 01 FC:581 40.00 CH

> PATENT REEL: 012255 FRAME: 0060

Docket No.:

RECORDED: 10/09/2001

ASSIGNMENT

In consideration of the premises is hereby acknowledged, the undersigne		ble consideration in hand paid, the	receipt and sufficiency of which
(1) Tađayuki SHIMIZU	(4)	(7)	
(2) Masaki TSUKUDE	(5)	(7)(8)	
(1) Tadayuki SHIMIZU (2) Masaki TSUKUDE (3) Minoru SENDA	(6)	(9)	
who have made a certain new and usefu		assign and transfer unto	
<u>Mitsubishi Denki Kabus</u>	hiki Kaisha of		
2-3, Marunouchi 2-chom	ne, Chiyoda-ku,	TOKYO 100-8310 JAP	AN
its successors and assigns (hereinafter d as defined in 35 U.S.C. 100 in the inve	ention entitled		for the United States of America
SEMICONDUCTOR MEMORY D	EVICE HAVING RI	EFRESHING FUNCTION	
(a) for which an application for United Serial No.	I States Letters Patent was	s filed on	, and identified by United States
(b) for which an application for United	i States Letters Patent wa	s executed on August 6,	2001
United States Letters Patent which may continuations, or continuations-in-part to Industrial Property to the said ASSIGN undersigned agree that the attorneys of AND the undersigned hereby a and obtaining original, divisional, reissus successors, assigns and legal representations based thereon, growing out of or related and legal representatives, deemed essentatives, deemed essentatives.	thereof, and the right to a NEE, for its interest as record in said application agree to transfer a like intered or extended Letters Prives, and without further reto the said invention; and	Il benefits under the International ASSIGNEE, its successors, assign shall hereafter act on behalf of surest, and to render all necessary assets of the United States, upon resummeration, in and to any improve to execute any papers by the said A	Convention for the Protection of ns and legal representatives; the aid ASSIGNEE: sistance in making application for equest of the said ASSIGNEE, its ments, and applications for patent SSIGNEE, its successors, assigns
SIGNED on the dates indicated aside o INVENTORS	ur signatures:	DATE SIGNEI)
1) Tadayuki Shimiz Name: Tadayuki SHIMIZU	Lu	August	6, 2001
Name: Tadayuki SHIMIZU 2) Masaki Tsukude Name: Masaki Tsukude	ide	August	6, 2001
3) winon Sonda Name: Minoru SENDA	a	August	6, 2001
4) Name:			
5) _{Name:}			
Name:			
7) Name:		<u> </u>	
8) Name:		-	
9) Name:			

PATENT REEL: 012255 FRAME: 0061