07-01-2002

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U.S. Department of Commerce Patent and Trademark Office

## 102139762 PATENTS ONLY

Our Ref.: 900-438

Name of conveying party(ies):   Name of conveying party(ies):   Tetsion ENDOH   Noboru TAKEUCH    Fujio MASUOKA   Takashi YOKOYAMA   6-20-07-2     Additional name/s of conveying party/ies attached?	Commissioner of Patents and Trademarks Box Assignment, Washington, D.C. 20231	2			
Name of conveying party(ies):   Testob ENDOH   Noboru TAKEUCH  Fujio MASUOKA   Noboru TAKEUCH  Fujio MASUOKA   6-20-02     Takashi YOKOYAMA   6-20-02     Additional name/s of conveying party/ies attached?   Takashi YOKOYAMA   Signment   Merger   Security Assignment   Change of Name   Sitate/Country: Japan   Zip: 981-0923     Additional name/s of conveying party/ies attached?   Additional name/s & address: 2-33-18, Higashikatsuyama, Aoba-ku     City: Sendai-shi, Miyagi   State/Country: Japan   Zip: 981-0923     Additional name/s & address/es attached?   Yes   No     A. Application namber(s) or patent number(s):   If this document is being filed together with a new application, the execution date of the application is:   June 5, 2002     A. Patent Application No(s).   (1)   (2)   (3)     (3)   Additional numbers attached   Yes   No     S. Name and address of party to whom correspondence concerning document should be mailed:   Total number of applications & patents involved:   1     Internal Address:   Street Address: Nixon & Vanderhye P.C.     1100 North Glebe Road   8 <sup>th</sup> Floor   1100 North Glebe Road   8 <sup>th</sup> Floor   1100 North Glebe Road   8 <sup>th</sup> Floor   1100 North Glebe Road   Simplication   1100 North Gle	To the Honorable Commissioner of Patents and Trademarks: Pl.	ease record the attached original documents or conv thereof			
3. Nature of conveyance:   Merger   Security Assignment   Change of Name   Change of Name   Zip: 981-0923   Additional name/s & address/es attached?   Yes   No	1. Name of conveying party(ies): Tetsuo ENDOH Noboru TAKEUCHI Fujio MASUOKA Takuji TANIGAMI	2. Name and address of receiving party(ies):  Name: Fujio Masuoka Internal Address:			
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:  June 5, 2002  A. Patent Application No(s).  (1) (2) (3)  Additional numbers attached  Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: H. Warren Burnam, Jr.  Internal Address:  Street Address: Nixon & Vanderhye P.C.  1100 North Glebe Road  S Floor  City: Arlington State: VA Zip: 22201  DO NOT USE THIS SPACE  9. Statements 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.  H. Warren Burnam, Jr.  Name of Person Signing Reg. No. 29,366  Total number of pages including original cover sheet, attachments, and document: [3]	3. Nature of conveyance:  Assignment Merger  Security Assignment Change of Name	State/Country: Japan			
A. Patent Application No(s).  (1) (2) (3)  Additional numbers attached Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: H. Warren Burnam, Jr.  Internal Address:  Street Address: Nixon & Vanderhye P.C.  1100 North Glebe Road  City: Arlington State: VA Zip: 22201  DO NOT USE THIS SPACE  9. Statements 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.  H. Warren Burnam, Jr.  Signature  Date  Reg. No. 29,366  Total number of application is: June 5, 2002  B. Patent No(s).  (1) (2) (3)  Additional numbers attached Yes No  6. Total number of applications & patents involved: 1  7. Total fee (37 CFR 3.41) \$ 40.00  Enclosed Authorized to be charged to deposit account #14-1140  8. The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.  DO NOT USE THIS SPACE  9. Statements 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.  H. Warren Burnam, Jr.  Name of Person Signing  Reg. No. 29,366  Total number of pages including original cover sheet, attachments, and document: [3]	Execution Date: June 5, 2002	Additional name/s & address/es attached?   Yes   No			
(1) (2) (3) Additional numbers attached	4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execut	tion date of the application is:  June 5, 2002			
Additional numbers attached Yes No  Name and address of party to whom correspondence concerning document should be mailed:  Name: H. Warren Burnam, Jr.  Internal Address:  Street Address: Nixon & Vanderhye P.C.  1100 North Glebe Road  8th Floor  City: Arlington State: VA Zip: 22201  DO NOT USE THIS SPACE  9. Statements 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.  H. Warren Burnam, Jr.  Name of Person Signing Reg. No. 29,366  Total number of applications & patents involved: 1  7. Total fee (37 CFR 3.41) \$ 40.00  Authorized to be charged to deposit account #14-1140  8. The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.  9. Statements 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.  H. Warren Burnam, Jr.  Name of Person Signing  Reg. No. 29,366  Total number of pages including original cover sheet, attachments, and document: [3]	(1) (0) 10174903	(1) (2)			
Name: H. Warren Burnam, Jr.   Total fee (37 CFR 3.41) \$ 40.00		attached Yes No			
Name: H. Warren Burnam, Jr.   Second Endowed to deposit account #14-1140	5. Name and address of party to whom correspondence	6. Total number of applications & patents involved: 1			
Name: H. Warren Burnam, Jr.    Street Address: Nixon & Vanderhye P.C.   1100 North Glebe Road   8th Floor   100 NoT USE THIS SPACE	<u>-</u> :				
Street Address: Nixon & Vanderhye P.C.  1100 North Glebe Road  8th Floor  City: Arlington State: VA Zip: 22201  DO NOT USE THIS SPACE  9. Statements 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.  H. Warren Burnam, Jr.  Name of Person Signing Reg. No. 29,366  Total number of pages including original cover sheet, attachments, and document:  [3]  8. The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.  June 20, 2002  June 20, 2002  Date  Total number of pages including original cover sheet, attachments, and document:  [3]  HWB:lsh	Name: H. Warren Burnam, Jr.	⊠ Enclosed			
Street Address: Nixon & Vanderhye P.C.  1100 North Glebe Road  8th Floor  City: Arlington State: VA Zip: 22201  BONOT USE THIS SPACE  9. Statements 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.  H. Warren Burnam, Jr.  Name of Person Signing  Reg. No. 29,366  Total number of pages including original cover sheet, attachments, and document:  [3]  8. The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.  BONOT USE THIS SPACE  9. Statements 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.  H. Warren Burnam, Jr.  Name of Person Signing  Reg. No. 29,366  Total number of pages including original cover sheet, attachments, and document: [3]	Internal Address:				
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**REEL: 13028 FRAME: 0106** 

Commissioner of Patents and Trademarks

Our Ref: 900-438

## RECORDATION FORM COVER SHEET

## **PATENTS ONLY**

Box Assignment, Washington, D.C. 20231			
1. Name of conveying party(ies):			
		1	
		]	
		1	
		1	
2. Name: Sharp Kabushiki Kaisha			
Street Address: 22-22, Nagaike-cho, Abeno	-ku		
City: Osaka			
State: Japan			
Zip: 545-8522			
4. Application number(s) or patent number(s):		$\dashv$	
4. Application number(s) of patent number(s).		1	
A. Patent Application No(s).	B. Patent No(s).	Ì	
(4)	(4)	-	
(5)	(5)	}	
(6)	(6)	}	
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(9)	(9)	- 1	

PATENT PATENT REEL: 13028 FRAME: 0107

	ASSIG	<b>NMENT OF U.S. PAT</b>	ENT APPLICATION
	Tetsuo ENDOH,	Fujio MASUOKA, Takuji TA	ANIGAMI, Takashi YOKOYAMA,
(Inventors)	Noboru TAKEUC	HI, Yoshihisa WADA, Kota	SATO and Kazushi KINOSHITA
(Assignee) (Address) (Assignee) (Address)	considerations pathereby does assisting MASUOKA 2-33-18, Higashik SHARP KABUSH 22-22, Nagaike-c (hereinafter designated the United States) applications for pathereby does not be seen as the consideration of the consider	aid to each of the undersign gn, transfer and set over to catsuyama, Aoba-ku, Sendi IIKI KAISHA ho, Abeno-ku, Osaka 545- inated as the Assignee) the , its territories, dependencie	of JAPAN ai-shi, Miyagi 981-0923 JAPAN a corporation of JAPAN  8522 JAPAN a undersigned's entire right, title and interest for es and possessions in the invention, and all at which may be granted therefore, known as
	for which the und patent in the Unite	ed States of America or, if i	ted on even date herewith an application for not on even date, then has executed on U.S. application Serial No, on
	The undersigned assignee at the ti	 acknowledges an obligatio ne the invention was made	n of assignment of this invention to said
application or and also to ex deem necess	r any interference w xecute separate as sary or expedient ar	hich may be declared and signments in connection wand further to perform any ac	d documents necessary in connection with the any continuing or divisional applications thereof ith such applications as the Assignee may be necessary in connection with tection of Industrial Property or similar
The ر of a valid Uni	undersigned agree( ted States patent to	s) to perform all affirmative to the Assignee.	acts which may be necessary to obtain a grant
and all Letters continuing ap covenants tha	s Patent of the Unit plications thereof to at he has (they have	ed States resulting from sa the said Assignee, as Ass	s) the Commissioner of Patents to issue any aid application or any division or divisions or signee of the entire interest, and hereby ntire interest herein assigned, and that he has ent in conflict herewith.
The unit assignment of the UNITY of the UNIT	undersigned hereby ent any further iden Inited States Pateni attorneys Nixon & y ASSIGNEE with r	y grant(s) the firm of NIXON tification which may be nec t Office for recordation of th Vanderhye P.C. have repre- respect to this invention.	N & VANDERHYE P.C. the power to insert on essary or desirable in order to comply with the his document. It is understood and agreed that esented only ASSIGNEE and will continue to
In wit signature(s).	ness whereof, exec	cuted by the undersigned o	n the date(s) opposite the undersigned
Date Jun	e 5, 2002	Signature of inventor	Letsuo Endoh
Date <u>Jun</u>	e 5, 2002	Signature of inventor	Tetsuo ENDOH  Tujuo Masuoka  Fujio MASUOKA
Date <u>Jun</u>	e 5, 2002	Signature of inventor	Takuji TANIGAMI
Date <u>Jun</u>	e 5, 2002	Signature of inventor	Takuji TANIGAMI  Takashi Yokoyama  Takashi YOKOYAMA
Date Jun	e 5, 2002	Signature of inventor	Noboru Takeuchi
Date		Signature of inventor	
Witnessed by	r.		Date

**RECORDED: 06/20/2002** 

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