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Commissioner of Patents and Trademarks

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U.S. Department of Commerce

Patent and Trademark Office

Box Assignment, Washington, D.C. 20231 To the Honorable Commissioner of Patents and Trademarks: Please record the attached or givel documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): 10-19-00 Masahiro SHIOTA Name: Sharp Kabushiki Kaisha Toshiyuki SHINOZAKI Internal Address: Hideyuki TSUJI Street Address: 22-22, Nagaike-cho, Abeno-ku Toshiaki KINOSADA Additional name/s of conveying party/ies attached? 3. Nature of conveyance: City: Osaka-shi, Osaka State/Country: Japan ☐ Merger Security Assignment Change of Name Zip: 545-8522 Other Additional name/s & address/es attached? Yes No August 22, 2000 **Execution Date:** 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: B. Patent No(s). A. Patent Application No(s). (1) 09/603,433 (1) (2) (2) (3) (3) Additional numbers attached Yes No 6. Total number of applications & patents involved: 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41) 40.00 H. Warren Burnam, Jr. □ Enclosed Authorized to be charged to deposit account #14-1140 Internal Address: 8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which Street Address: Nixon & Vanderhye P.C. 1100 North Glebe Road should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 8th Floor 22201 14-1140. City: Arlington State: VA 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. October 19, 2000 H. Warren Burnam, Jr. Name of Person Signing Reg. No. 29,366 Total number of pages including original cover sheet, attachments, and document: [2]

PATENT

467731

REEL: 011249 FRAME: 0451

			Case No. :
ASSIGNMENT OF U.S. PATENT APPLICATION			
	Masahiro SHIOTA		
(Inventors)	Toshiyuki SHINOZ	AKI	
	Hideyuki TSUJI		
	Toshiaki KINOSAE		W (0.1.00)
			ollar (\$1.00) and other good and valuable
		n, transfer and set over to	ed, the undersigned agree(s) to assign, and
(Assignee)	SHARP KABUSHII		a corporation of JAPAN
(Address)		o, Abeno-ku, Osaka-shi, (
•	(hereinafter design	ated as the Assignee) the	undersigned's entire right, title and interest for
			es and possessions in the invention, and all
/T:41.a\			It which may be granted therefore, known as DR AND ITS MANUFACTURING PROCESS
(Title)			ed on even date herewith an application for
			not on even date, then has executed on
			U.S. application Serial No. 09/603,433, on
	June 23, 2000		
			n of assignment of this invention to said
	•	ne the invention was made	
The undersigned agree(s) to execute all papers and documents necessary in connection with the			
application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may			
deem necessary or expedient and further to perform any act which may be necessary in connection with			
claims or provisions of the International Convention for 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 to the Assignee.			
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any			
and all Letters Patent of the United States resulting from said application or any division or divisions or			
continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) 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.			
The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on			
this assignment any further identification which may be necessary or desirable in order to comply with the			
rules of the United States Patent Office for recordation of this document. It is understood and agreed that			
ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to			
represent only ASSIGNEE with respect to this invention.			
	tness whereof, exec	uted by the undersigned o	n the date(s) opposite the undersigned
signature(s).			
Date Aug	ust 22, 2000	Signature of inventor	Masahiro Shiota
Date		Signature of inventor	Masahiro SHIOTA
Date Aug	ust 22, 2000	Signature of inventor	Toshiyuki Shinozaki
			Toshiyuki SHINOZAKI
Date Aug	ust 22, 2000	Signature of inventor	Hideynki ISUII
Date Aug	22 2000	O Signature of inventor	Hideyuki TSUJI
	ust 22, 2000		Toshiaki KINOSADA
Date		Signature of inventor	1 defined that the second of t
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			5.1.
Witnessed by:			Date
Witnessed by	v.		Date
Witnessed by.			

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