Atty. Docket No.: 1248-0527P

Page 1 of 1

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1. Name of conveying party(ies):	2. Name and address of receiving party(ies)	
HIROKANE, Junji; IWATA, Noboru	Name: SHARP KABUSHIKI KAISHA	
Additional name(s) of conveying party(ies) attached?	Internal Address:	
☐ YES ☑ NO  3. Nature of conveyance:	Street Address: 22-22 Nagaike-cho Abeno-ku	
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Security Agreement Change of Name	Country: JAPAN Postal Code: 545-8522	
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Date: December 20, 2000  4. Application number(s) or patent number(s):	04 769336	
If this document is being filed together with a new application, the		
December 20, 2000	and approximately and approximately and approximately appr	
A. Patent Application No(s).	B. Patent No.(s).	
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5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total No. of applications/patents involved: ONE (1)	
Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP	7. Total fee (37 C.F.R. § 3.41): \$40.00	
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To the best of my knowledge and belief, the foregoing is copy of the original document.  Donald J. Daley, #34,313  Name of Person Signing/Reg. No.	Information is true and correct and any attached copy is a true    June	
Total number of pages including cover she	ret, attachments, and document: THREE (3)	
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ATTORNEY DOCKET NO.

1248-0527P

## **ASSIGNMENT**

insert Name(s)	WHEREAS, Junji HIROKANE and Noboru IWATA	
insert Title of Invention	nereinafter designated as the undersigned) has (have) invented certain new and useful OPTICAL DISK AND RECORDING/REPRODUCING DEVICE	improvements in
insert Date of Signing of	which an application for Letters Patent of the United States of America has been expensed.  December 20, 2000	ecuted by the undersigned
Application  of Assignee	WHEREAS, SHARP KABUSHIKI KAISHA	; and
· · · · · · · · · · · · · · · · · · ·		
insert Address of Assignee   o	f 22-22 Nagaike-cho Abeno-ku Osaka 545-8522 Japan	
CHECK BOX F APPROPRIATE  P h A	s heirs, successors, legal representatives and assigns (hereinafter designated as the equiring the entire right, title and interest in and to said invention and in and to a lay be granted therefor in the United States of America and in any and all foreign countries.  NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to laid, the receipt of which is hereby acknowledged, and other good and valuable considus (have) sold, assigned and transferred, and by these presents does sell, assigned the full and exclusive right to the said invention in the United States of ependencies and possessions and the entire right, title and interest in and to any thich may be granted therefor in the United States of America, its territories, dependencies.	the undersigned in hand deration, the undersigned in and transfer unto said of America, its territories, and all Letters Patent(s)

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for

which the same may be granted.

PATENT REEL: 011483 FRAME: 0937 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the 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 of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the 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 law firm of Birch, Stewart, Kolasch & Birch, LLP 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Dec. 20, 2000	Name of Inventor	Junji Hirokane
Jake _			(signature)
Date	Dec. 20, 2000	Name of Inventor	helon Iwata
- Jan.	,		(signature)
Date		Name of Inventor	
Date	,		(signature)
Date _		Name of Inventor	
	, , , , , , , , , , , , , , , , , , , ,	(signature)	
Date _		Name of Inventor	
	,	(signature)	
Date ,	, Name of In	Name of Inventor	
		Transic Or Mittoricos	(signature)

RECORDED: 01/26/2001

PATENT REEL: 011483 FRAME: 0938