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03-02-2000



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Docket No.: 49578(904)

**SHEET** 

U.S. DEPARTMENT OF COMMERCE



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To the Honorable Commission	er of Patents a	and Trademarks:	Please record the at	tached original	I documents or	copy thereof.
1. Name of conveying party(ies): HIDEAKI FUJITA, YORISHIGE ISHII, YOSHIFUMI IWAI, TOSHIYUKI MATUSHIMA, TOSHIHIRO TAMURA, YUKIO KURATA			2. Name and address of receiving party(ies):  Name: SHARP KABUSHIKI KAISHA  Address: 22-22 Nagaike-cho, Abeno-ku			
Additional names(s) of conveying party	r(ies)	Yes 🛭 No				5063( 11/0(
3. Nature of conveyance:						099/
∆ Assignment	☐ Merg	jer				<u> </u>
☐ Security Agreement	☐ Chan	nge of Name	City: Osaka		State/Prov	/.:
☐ Other			Country: Japan		ZIP:	
Execution Date: January 21, 20	00		Additional name(s) & a	address(es)	☐ Yes	⊠ No
<ol> <li>Application number(s) or regis         If this document is being filed         Patent Application No.     </li> </ol>			the execution date of B. Patent N		on is: <u>Januar</u>	y 21, 2000
5. Name and address hearty to concerning document should	whom dorresp be mailed:	Additional numbers	☐ Yes ☒ No  6. Total number of	applications ar	nd patents invo	olved: 1
Name: David G. Conlin	o ap		7. Total fee (37 CF	R 3.41):	\$ 40,00	
Registration No. 27026  Address: Dike, Bronstein, Ro	berts & Cushm	an, LLP		Any excess or i	nsufficiency sh sit account	ould be
130 Water Street			☐ Authorized to	o be charged to	o deposit acco	unt
City: Boston Country: USA	State/Pro ZIP: <u>021</u>	09	8. Deposit account	number:		
		DO NOT U	JSE THIS SPACE			
9. Statement and signature.  To the best of my knowledge a of the original document.	and belief, the	foregoing informa	ntion is true and corre	ect and any att		
David G. Conlin			11/2 CA		February 17, 2	2000
Name of Person Sign	-	er of pages including o	Signature speet attachments.	and 3	Date	

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## ASSIGNMENT

We	Hideaki FUJITA	
and	Yorishige ISHII Yoshifumi IWAI	· · · · · · · · · · · · · · · · · · ·
for good and v		ABUSHIKI KAISHA
	, a <u>Japan</u> incipal place of business in Osaka	
hereinafter ca	alled the Assignee, receipt of which is	Japan ,
sell, assign a	and transfer unto the Assignee, its su	cessors and assigns, the entire
right, title a	and interest in, to and under an applic	cation for Letters Patent of the
United States	serial No	* signed by us
OPTICAL C	OMMUNICATION APPARATUS	, the war
including all	priority rights ensuing therefrom, and	the inventions and any of them
and of countri	orth and described, and any and all Lei les foreign thereto which may be grante	ed thereon or therefor, together
with the right	to apply for such Letters Patent.	and the contract of the contra
33 E Lla		
And for th	me above consideration we agree prom s or assigns, to execute and deliver w	mptly upon request of the Assignee,
power of attor	mey, assignment, application, whether	original, divisional, continuation
or reissue, or	other papers which may be necessary of	or desirable fully to secure to the
	successors and assigns, the inventions d all patent rights therein, in the U	
foreign theret		initial states and in any country
The under	signed hereby grant(s) the law firm	m of Dike. Bronstein Roberts &
cushman the	power to insert on this Assignme	nt any further identification
will ch may be	necessary or desirable in order t	a comply with the rules of the
U.S. Patent a	und Trademark Office for recordation	n of this document.
IN WITNESS	WHEREOF, I, Hideaki FUJITA	<b>.</b>
hand and seal (	this 21st day of Tanuary	, hereunto set my yorishiqe
ISHII	, hereunto set my hand and s	eal this 21st day of January
this 21ct	, hereunto set my hard and s Yoshifumi IWAI  day of January , 2000.	, hereunto set my hand and seal
		2/1/2/2/2
		Videaki Frejita Yorishige Askii Yoshifumi Uwai
		Chariable Ackis
		21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		Joshifumi Uwas
		. • •
Commonwealth (S	State] of	
County of	ss.	
D. 6	this day of	10
Berore me	this, who is to me persona	, 19, personally appeared
the foregoing	instrument of assignment to be [her] h	is free act and deed.
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		Notary Diplic
		Notary Public
Commonwealth [S	State] of	
County of		
Before me t	this day of	. 19 . personally arreared
501010 110	this day of, who is to me personal	ly known, and acknowledged
the foregoing i	instrument of assignment to be [her] h	is free act and deed.
		Notary Public
		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

\*Where the application is assigned before it is filed, and hence has no Serial No., this shall be left blank.

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PATENT REEL: 010574 FRAME: 0028

## ASSIGNMENT

We _		i MATUSHIMA					
and	Toshihir Yukio KU	O TAMURA					
for good a	nd valuable	consideration	from	SHARP	KABUSHTKT	KATSHA	
			, a	Japan	ese	corporation	,
having its	principal p	lace of busine	ss in	Osaka	, Japan		
neremarte	un and trans	Assignee, rec	esimee	wnich is	nereby ack essors and	nowledged, do he assigns, the e	ereby
right, tit	le and inter	ast in, to and	under a	n applica	tion for L	etters Patent of	fthe
United Sta	tes Serial N	0.	. ج	iled on		* signed b	y us
icr improve	ements in [	IWO-WAY OPTIC	'AL COMM	UNICATIO	N DEVICE	AND TWO WAY	
including	all priority	TION APPARAT	us g theref	rom, and	the invent	ions and any of	them
therein set	t forth and	described, and	any and	all Lett	ers Patent	of the United :	States
and of cou	ntries forei	m thereto whi	ch may b	e granted	thereon or	r therefor, toge	ether
with the r	idur to abbi	y for such Let	ters Pat	ent.			
its success power of at or reissue, Assignee, i	sors or assignments, assignments, or other paids successors and all paids.	gns, to execut ignment, applicapers which marks and assigns	e and de cation, v y be nece , the inv	liver with whether or essary or ventions	hout furtheriginal, did desirable and any of	equest of the Asser compensation ivisional, continuity to secure them described and in any country to the continuity country c	any inuation to the in said
which may	he power t. be necessa	o insert on	this As ble in o	signment order to	any fur	Bronstein, Rob ther identifi ith the rules ocument.	cation
IN WITN	IESS WHEREOF,	I, To:	shiyuki	MATUSHIN	1Α	, hereunto	set mv
hand and se	al this <u>21</u>	st day of	Januar	У	,2000,	I, Toshihi st day of Jan	.ro
2000, and I		, nereunto se Zukio KURATA	et my har	nd and sea	this 21	st day of <u>Jan</u> set my hand and	uary
this 21st	day of	January		, 2000·	.Eredito s	sec my name and	Seal
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					Joshih	in Tamer	AL.
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					- 1/4Z	rki Matushimu iro Jamur ia Junta	·
					. /		
Commonwealt	h [State] of	:					
County of			S	ss.			
Before	me this	day of			. 19 . ne	ersonally armear	-e-7
241010		oriw ,	is to me	personal:	ly known, a	ersonally appear and acknowledged	ì
the foregoi	ng instrumen	t of assignmen	nt to be	[her] his	free act	and deed.	
					Notary	Public	<del></del>
					•	•	
Commonwealt	h [State] of			:e *			
county of							
Before	me this	day of who is	to me p	ersonally	, 19, pe known, an	ersonally appear nd acknowledged and deed.	ed:
wa roregol	ng instrumen	c or assignmen	ir co be	fuerl ura	rree act	an deed.	
					Notary	Public	

\*Where the application is assigned before it is filed, and hence has no Serial No., this shall be left blank.

**RECORDED: 02/17/2000** 

PATENT REEL: 010574 FRAME: 0029