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FORM	I PTO-1595				ΞT	U.S. <b>C</b>	DEPARTMENT OF COMMERCE
	eas & Halsey LLP Honorable Commiss		)242777			riginal docume	ents or copy thereof.
1. N S F	Name of conveyir Yong-jae LEE Sung-ro GO Pyong-yong SEO Chang-jin YANG Bi-bong SONG	g party(ies):	RE			/>.	
E	Byung-in MA ong-koog LEE						
2. N	lame and Addres	ss of receiving party	(ies):				
4	SAMSUNG ELE 16 Maetan-dor Suwon City, Kyu Republic of Kore	ingki-do	LTD.				
<del></del>	Nature of conveya  X Assignme Security A Other: Execution Date(s)	ent Agreement		Merger Change of N	ame		
[	Application number(s) or patent number(s):  This document is being filed together with a new application:  (a) The execution date(s) of the application is/are:  (b) The title is:  OR						
(	a) Patent Ap	it is being filed after oplication No(s). <u>10/</u> o(s). , issued .	filing of the a 120,786, filed	application: d <u>April 12, 20</u>	<u>002;</u> or		
S A 7	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1293.1352  Attention: Michael D. Stein 700 Eleventh Street, N.W., Suite 500 Washington, D.C. 20001						
6. 1	otal number of a	pplications and pate	ents involved	: <u>1</u>			
7. ] [	Total fee (37 CFR 3.41)(\$ 40.00 per Assignment)  ☐ Enclosed ☐ Authorized to be charged to deposit account.						
P	Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account)						
-	Statement 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.						
	<u>D. Stein, Reg.</u> f Person Signin		Sig		per of page	Da es including	ate cover sheet: 3

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HS	DEPARTMENT	OF	COMMERCI

		ne Honorable Commissioner of Pt. 102282909 ;hed original documents or copy thereof.
	1.	Name of conveying party(ies): Yong-jae LEE Sung-ro GO Pyong-yong SEONG Chang-jin YANG Gi-bong SONG Byung-in MA Jong-koog LEE
	2.	Name and Address of receiving party(ies):
		SAMSUNG ELECTRONICS CO., LTD. 416 Maetan-dong, Paldal-gu Suwon City, Kyungki-do Republic of Korea
	3.	Nature of conveyance:  X
	4.	Application number(s) or patent number(s):  This document is being filed together with a new application:  (a) The execution date(s) of the application is/are:  (b) The title is:  OR  This document is being filed after filing of the application:  (a) Patent Application No(s). 10/120,786, filed April 12, 2002; or  (b) Patent No(s)., issued.
	5.	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1293.1352  Attention: Michael D. Stein 700 Eleventh Street, N.W., Suite 500  Washington, D.C. 20001
	6.	Total number of applications and patents involved:1
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	8.	Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account)
, —	9. Michae	Statement 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.  I.D. Stein, Reg. No. 37,240
	Name of	of Person Signing Date
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t	FOF	JUL E 3 2302 RECO U.S. DEPARTMENT OF COMMERCE
		taas & Haisey LLP 102 48794 Honorable Commissioner of Expents and Trademarks: Please record to a documents or copy thereof.
PE	1.	Name of conveying party(ies):
	,	Yong-jae LEE; Sung-ro GO; Pyong-yong SEONG; Chang-jin YANG; Gi-bong SONG; Byung-in
o a low	<u> </u>	MA and Jong-koog LEE
, MA	<b>₹</b> /	Name and Address of receiving party(ies): $7 \cdot 3 \cdot 02$
LIN'S		SAMSUNG ELECTRONICS CO., LTD. 416 Maetan-dong, Paldal-gu Suwon City, Kyungki-do Republic of Korea
	3.	Nature of conveyance:  X Assignment Merger  Security Agreement Change of Name  Other: Execution Date(s): April 15, 2002
	4.	Application number(s) or patent number(s):  This document is being filed together with a new application:  (a) The execution date(s) of the application is/are:  (b) The title is:  OR  This document is being filed after filing of the application:  (a) Patent Application No(s). 09/704,549, filed November 3, 2000; or  (b) Patent No(s)., issued
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	6.	Total number of applications and patents involved:1
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	8.	Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account)
	9.	Statement 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.
		el D. Stein, Reg. No. 37,240 of Person Signing Signature  T/3/02 Date
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## U.S. ASSIGNMENT

SAHRS. IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) SAMSUNG ELECTRONICS CO., LTD. 416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea (hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention) OPTICAL PICKUP APPARATUS AND OPTIMAL LIGHT SPOT FOCUSING METHOD and/or for which application for Letters Patent of the United relating to International Patent Application PCT/JP\_\_\_/\_ States was executed on even date herewith or, if not so executed, was: (Insert date of execution of application, if not concurrent) (a) executed on \_\_\_ (b) filed on <u>12 April 2002</u> Any registered attorney of STAAS & HALSEY, 700 Eleventh Street, N.W., Washington, D.C. 20001 (202/434-1500) is Serial No. <u>10 /120,786</u> hereby authorized to insert in (b) the specified data, when and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)"). The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal.proceeding ...... which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence. IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). (Typed Name & Signature of Witness(es)) (Typed Name & Signature of Inventor(s)) (Date) Lee, Youg-jae \_\_\_\_15 April 2002 15 April 2002 Sung-ro Go YONG YONG SEONG 15 April 2002 Prong-yong Seong YANG CHANG JIN

15 April 2002

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## U.S. ASSIGNMENT

undersigned inventor(s) (hereinafter, "ASSIGNOR"		er good and valuable consideration paid to the	
(Insert Name(s) & Address(es) of ASSIGNEE(S))			
SAMSUNG ELECTRONICS CO., LTD	•		
416 Maetan-dong, Paldal-gu,	Suwon-city, Ky	ungki-do,	
Republic of Korea			
(hereinafter, "ASSIGNEE"), the receipt of which is and transfers to ASSIGNEE the entire and exclusive	hereby acknowledged, to e right, title and interest	he undersigned ASSIGNOR hereby sells, assigns to the invention entitled	
(Title of Invention)			
OPTICAL PICKUP APPARATUS AND OPTIMAL	LIGHT SPOT FOCUSING	METHOD	
		•	
relating to International Patent Application PCT/JP_ States was executed on even date herewith or, if r	not so executed, was:	which application for Letters Patent of the United	
(a) executed on	, misert date or exe		
(b) filed on <u>12 April 2002</u> Serial No. <u>10 / 120,786</u> :	Any registered attorney of STAAS & HALSEY, 700 Eleventh Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.		
and to said application and all Letters Patent(s) of the renewal, substitute, reissue or reexamination application application application and the properties of the patent of the properties of	cation based thereon, for asions thereof (collective	the full term or terms for which the said Letters ly, hereinafter, "said application(s) and Letters	
The ASSIGNOR agree(s), when requested by sain of all acts which the ASSIGNEE may deem neconstaction for said invention, including in the prepara Patent(s), in any interference, reissue, reexamination which may arise or be declared in relation to same, separate assignments and declarations, taking all exidence.	essary, desirable or exp tion and prosecution of sa n, or public use proceedir such acts to include but	edient, for securing, maintaining and emorcing aid application(s) and the issuance of said Letters up, and in any litigation or other legal.proceeding not be limited to executing all papers, including	
IN WITNESS WHEREOF, the undersigned inventor	or(s) has (have) affixed h	is/her/their signature(s).	
(Typed Name & Signature of Inventor(s))	(Date)	(Typed Name & Signature of Witness(es))	
MA, BYUNG-IN	15 April 2002		
Byung-in Ma LEE JONG KOOG	15 April 2002		
Jang-kaag Lee			

PATENT REEL: 013975 FRAME: 0175

**RECORDED: 11/12/2002**