FORM PTO-1595

U.S. DEPARTMENT OF COMMERCE

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Nan	ne of Person Signing Signature Date Total number of pages including cover sheet: <u>5</u>
	nael D. Stein, Reg. No. 37,240
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.
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)
7.	Total fee (37 CFR 3.41) (\$ 40.00 per Assignment) ☑ Enclosed ☐ Authorized to be charged to deposit account.
6.	Total number of applications and patents involved:1
5.	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1293.1370 Attention: Michael D. Stein 700 Eleventh Street, N.W., Suite 500 Washington, D.C. 20001
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). 10/141,774, filed May 10, 2002; or (b) Patent No(s)., issued.
3.	Nature of conveyance: X
	SAMSUNG ELECTRONICS CO., LTD. 416 Maetan-dong, Paldal-gu Suwon City, Kyungki-do Republic of Korea
2.	Name and Address of receiving party(ies):
1.	Name of conveying party(ies): Dae-sik KIM Kun-ho CHO Soon-kyo HONG Young-il KIM Kwang-sup IM Ho-cheol LEE Dae-hwan KIM
Т	the Honorable Commissioner of Patents and Trademarks: Please record the uncommissioner of Patents and Trademarks:

PATENT

REEL: 013181 FRAME: 0037

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One undersigned inventor(s) (hereinafter, "ASSIGNE (Insert Name(s) & Address(es) of ASSIGNEE(S) SAMSUNG ELECTRONICS CO., I	UR 16Y	ner good and valuable consideration paid to thi
416 Maetan-dong, Paldal-c	gu, Suwon-city, Ky	ungki-do,
Republic of Korea		
(hereinafter, "ASSIGNEE"), the receipt of which and transfers to ASSIGNEE the entire and exclu	n is hereby acknowledged, i sive right, title and interest	the undersigned ASSIGNOR hereby sells, assigns to the invention entitled
OPTICAL PICKUP INCLUDING A	MANY-SIDED REFLEC	TION PRISM AND METHOD OF
USING THE OPTICAL PICKUP		·
(a) executed on	Any registered at Street, N.W., Washereby authorized known. the United States granted oplication based thereon, for	the full term or terms for which the said Letters
Patent(s)*).	said ASSIGNEE and without necessary, desirable or exp aration and prosecution of sa tion, or public use proceedir ne, such acts to include but	charge to but at the expense of said ASSIGNEE, edient, for securing, maintaining and enforcing aid application(s) and the issuance of said Letters ag, and in any litigation or other legal proceeding not be limited to executing all papers, including
IN WITNESS WHEREOF, the undersigned inve	ntor(s) has (have) affixed h	is/her/their signature(s).
(Typed Name & Signature of Inventor(s))	(Date)	(Typed Name & Signature of Witnessles))
Dae-sik Kim	4 June 2002 4 June 2002	
Kun-ho Cho Scan Kyo HCNY Soon-kyo Hong	4 June 2002 24 July 2002	
Kwang-sup Im		

PATENT REEL: 013181 FRAME: 0038

U.S. ASSIGNMENT

undersigned inventor(s) (hereinafter, "ASSIGNOR") (Insert Name(s) & Address(es) of ASSIGNEE(S))	r (\$1,00), and of other good and valuable consideration paid to the by
SAMSUNG ELECTRONICS CO., LTD.	
416 Maetan-dong, Paldal-gu,	Suwon-city, Kyungki-do,
Republic of Korea	
(hereinafter, "ASSIGNEE"), the receipt of which is hand transfers to ASSIGNEE the entire and exclusive	ereby acknowledged, the undersigned ASSIGNOR hereby sells, assign: right, title and interest to the invention entitled
(Title of Invention)	
OPTICAL PICKUP INCLUDING A MA	ANY-SIDED REFLECTION PRISM AND METHOD OF
USING THE OPTICAL PICKUP	
relating to International Patent Application PCT/JP	/and/or for which application for Letters Patent of the United
States was executed on even date herewith or, if no	t so executed, was:
(a) executed on	: (Insert date of execution of application, if not concurrent)
(b) filed on10 May 2002	Any registered attorney of STAAS & HALSEY, 700 Eleventh
Serial No. <u>10/141,774</u> :	Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.
renewal, substitute, reissue or reexamination applica Patent(s) may be granted and including any extensi Patent(s)*).	United States granted on said application and any continuation, division, tion based thereon, for the full term or terms for which the said Letters ions thereof (collectively, hereinafter, "said application(s) and Letters
to do all acts which the ASSIGNEE may deem nece protection for said invention, including in the preparati Patent(a), in any interference, reissue, reexamination,	ASSIGNEE and without charge to but at the expense of said ASSIGNEE, ssary, desirable or expedient, for securing, maintaining and enforcing on and prosecution of said application(s) and the issuance of said Letters or public use proceeding, and in any litigation or other legal proceeding uch acts to include but not be limited to executing all papers, including phtful paths, providing sworn testimony, and obtaining and producing
IN WITNESS WHEREOF, the undersigned inventor	(s) has (have) affixed his/her/their signature(s).
(Typed Name & Signature of Inventor(s))	(Date) (Typed Name & Signature of Witness(es))
Kim Gondil	19 July 2002
Young-il Kim	
2)	
3)	
4)	
5)	

PATENT REEL: 013181 FRAME: 0039

U.S. ASSIGNMENT

(Insert Name(s) & Address(es) of ASSIGNEE!	'SII	
SAMSUNG ELECTRONICS CO.,		
416 Maetan-dong, Paldal-	gu, Suwon-city, F	(yungki-do,
Republic of Korea		
hereinafter, "ASSIGNEE"), the receipt of whice and excluding transfers to ASSIGNEE the entire and excluding the excluding the excluding the entire and excluding the exclud	ch is hereby acknowledged lusive right, title and intere	, the undersigned ASSIGNOR hereby sells, assig st to the invention entitled
Title of Invention)		
OPTICAL PICKUP INCLUDING	A MANY-SIDED REFL	ECTION PRISM AND METHOD OF
USING THE OPTICAL PICKUP		·
elating to International Patent Application PCT/. Itates was executed on even date herewith or	JP/and/or for if not so executed, was:	or which application for Letters Patent of the Unite
	, 11 1101 00 011001100, 11001	
(a) executed on	; (Insert date of e	xecution of application, if not concurrent)
10 May 2002		
(b) filed on 10 May 2002		attorney of STAAS & HALSEY, 700 Eleventh ashington, D.C. 20001 I202/434-1500J is
Serial No. <u>10</u> / <u>141</u> , 774 ;	hereby authorize known.	ed to insert in (b) the specified data, when
	of the United States granted	on said application and any continuation, division
newal, substitute, reissue or reexamination ap		
newal, substitute, reissue or reexamination aptent(s) may be granted and including any extent(s)"). The ASSIGNOR agree(s), when requested by do all acts which the ASSIGNEE may deem obtection for said invention, including in the preparation in any interference, reissue, reexamins inch may arise or be declared in relation to san	xtensions thereof (collective said ASSIGNEE and without necessary, desirable or exparation and prosecution of sation, or public use proceed ne, such acts to include but	r the full term or terms for which the said Letters rely, hereinafter, "said application(s) and Letters of charge to but at the expense of said ASSIGNEE, pedient, for securing, maintaining and enforcing said application(s) and the issuance of said Letters ing, and in any litigation or other legal proceeding t not be limited to executing all papers, including sworn testimony, and obtaining and producing
newal, substitute, reissue or reexamination aptent(s) may be granted and including any extent(s)"). The ASSIGNOR agree(s), when requested by do all acts which the ASSIGNEE may deem prection for said invention, including in the preptent(s), in any interference, reissue, reexamination may arise or be declared in relation to samparate assignments and declarations, taking a	stensions thereof (collective said ASSIGNEE and without necessary, desirable or exparation and prosecution of station, or public use proceed me, such acts to include but all rightful oaths, providing	rely, hereinafter, "said application(s) and Letters of the content of the expense of said ASSIGNEE, pedient, for securing, maintaining and enforcing said application(s) and the issuance of said Letters ing, and in any litigation or other legal_proceeding that not be limited to executing all papers, including sworn testimony, and obtaining and producing
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newal, substitute, reissue or reexamination aptent(s) may be granted and including any extent(s)"). The ASSIGNOR agree(s), when requested by do all acts which the ASSIGNEE may deem otection for said invention, including in the preptent(s), in any interference, reissue, reexamine nich may arise or be declared in relation to samparate assignments and declarations, taking indence. IN WITNESS WHEREOF, the undersigned inventor (Typed Name & Signature of Inventor(s))	said ASSIGNEE and without necessary, desirable or exparation and prosecution of ation, or public use proceed me, such acts to include but all rightful oaths, providing entor(s) has (have) affixed (Date)	rely, hereinafter, "said application(s) and Letters at charge to but at the expense of said ASSIGNEE pedient, for securing, maintaining and enforcing said application(s) and the issuance of said Letters ing, and in any litigation or other legal proceeding t not be limited to executing all papers, including sworn testimony, and obtaining and producing his/her/their signature(s).
newal, substitute, reissue or reexamination aptent(s) may be granted and including any extent(s)"). The ASSIGNOR agree(s), when requested by do all acts which the ASSIGNEE may deem of the color of the said invention, including in the preparate, in any interference, reissue, reexamination may arise or be declared in relation to sample assignments and declarations, taking addence. IN WITNESS WHEREOF, the undersigned inventor(s) Lee Ho cheal	said ASSIGNEE and without necessary, desirable or exparation and prosecution of ation, or public use proceed me, such acts to include but all rightful oaths, providing entor(s) has (have) affixed (Date)	rely, hereinafter, "said application(s) and Letters at charge to but at the expense of said ASSIGNEE pedient, for securing, maintaining and enforcing said application(s) and the issuance of said Letters ing, and in any litigation or other legal proceeding t not be limited to executing all papers, including sworn testimony, and obtaining and producing his/her/their signature(s).
newal, substitute, reissue or reexamination aptent(s) may be granted and including any extent(s)"). The ASSIGNOR agree(s), when requested by do all acts which the ASSIGNEE may deem otection for said invention, including in the preparation of the preparate assignments and declarations, taking a idence. IN WITNESS WHEREOF, the undersigned invention of the preparate assignments and declarations. (Typed Name & Signature of Inventor(s)) Lee Ho cheol Ho-cheol Lee	said ASSIGNEE and without necessary, desirable or example or example, or public use proceed me, such acts to include but all rightful paths, providing entor(s) has (have) affixed (Date) 26 July 2002	rely, hereinafter, "said application(s) and Letter of the charge to but at the expense of said ASSIGNEE pedient, for securing, maintaining and enforcing said application(s) and the issuance of said Lettersing, and in any litigation or other legal proceeding the notion be limited to executing all papers, including sworn testimony, and obtaining and producing his/her/their signature(s).

PATENT REEL: 013181 FRAME: 0040

U.S. ASSIGNMENT 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 INCLUDING A MANY-SIDED REFLECTION PRISM AND METHOD OF USING THE OPTICAL PICKUP relating to International Patent Application PCT/JP__/___ and/or for which application for Letters Patent of the United 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>10 May 2002</u> Any registered attorney of STAAS & HALSEY, 700 Eleventh Serial No. 10 / 141,774 Street, N.W., Washington, D.C. 20001 (202/434-1500) is 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)

Dae-hwan Kim

RECORDED: 08/09/2002

PATENT REEL: 013181 FRAME: 0041

4 June 2002