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U.S. DEPARTMENT OF COMMERCE

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1.	Name of conveying party(ies): Byoung-ho CHOI In-sik PARK Jae-seong SHIM Kyung-geun 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). Unassigned, filed; 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: 1293.1281 Attention: Michael D. Stein 700 Eleventh Street, N.W., Suite 500 Washington, D.C. 20001					
6.	Total number of applications and patents involved:1					
7.	Total fee (37 CFR 3.41) (\$ 40.00 per Assignment) ☐ Enclosed ☐ Authorized to be charged to deposit account.					
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. 23/60 123/60	/				
Michael D. Stein, Reg. No. 37,240 Name of Person Signing Signature Date						
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PATENT REEL: 012410 FRAME: 0813

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IN CONSIDERATION of the sum of One D undersigned inventor(s) (hereinafter, "ASSIGNO		.00), and of other	good and valuable consideration paid to the
(Insert Name(s) & Address(es) of ASSIGNEE(S))	,		
SAMSUNG ELECTRONICS CO., LID.			
416 Maetan-dong, Paldal-gu, Sum	won-city	y, Kyungki-do,	
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(hereinafter, "ASSIGNEE"), the receipt of which and transfers to ASSIGNEE the entire and exclus	is hereby	y acknowledged, the , title and interest to	undersigned ASSIGNOR hereby sells, assigns the invention entitled
(Title of Invention)			
OPITICAL RECORDING MEDIUM ON WHICH WO	OBBLE SI	IGNAL HAVING HEA	DER INFORMATION IS RECORDED, METHOD
AND APPARATUS FOR RECORDING WOBBLE S	SIGNAL,	AND METHOD AND	APPARATUS FOR REPRODUCING WOBBLE SIGNAL
States was executed on even date herewith or, i			ution of application, if not concurrent)
(b) filed on 28 November 2001	<u> </u>		mey of STAAS & HALSEY, 700 Eleventh
(b) filed on; Serial No;		Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.	
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IN WITNESS WHEREOF, the undersigned inve	entor(s) h	as (have) affixed his	:/her/their signature(s).
(Typed Name & Signature of Inventor(s))		(Date)	(Typed Name & Signature of Witness(es))
1) CC102, 350DAGHO	5 Dec	cember 2001	
2) Ja Sill Parle	5 Dec	cember 2001	
Jae-Seong Shim	5 De	5 December 2001	
Jae-seong Shim	5 Dec	pember 2001	
Kyung-geun Lee			

PATENT REEL: 012410 FRAME: 0814

RECORDED: 12/31/2001