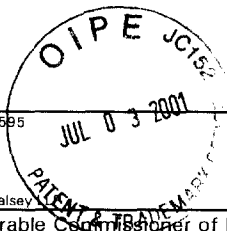


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To the Honorable Commissioner of Patents and Trademarks, please attach the attached original documents or copy thereof.



07-10-2001



U.S. DEPARTMENT OF COMMERCE

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1. Name of conveying party(ies):  
Byung-in MA; Chong-sam CHUNG; In-sik PARK; Byoung-ho CHOI and Tae-yong DOH
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:  
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☒ This document is being filed after filing of the application:  
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5. Name and address of party to whom correspondence concerning document should be mailed:  
STAAS & HALSEY LLP Our Docket: 1293.1196  
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)  
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8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)  
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*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.*

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**PATENT**  
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# U.S. ASSIGNMENT

S&H 8/94

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)

APPARATUS FOR GENERATING SEEK DIRECTION DETECTING SIGNAL FOR 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:

(a) executed on \_\_\_\_\_; (Insert date of execution of application, if not concurrent)

(b) filed on 27 March 2001;

Serial No. 09/817,754;

Any registered attorney of STAAS & HALSEY LLP, 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 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 Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) <u>BYUNG-IN MA</u>	<u>21 May 2001</u>	
Byung-in Ma		
2) <u>Chong Sam Chung</u>	<u>21 May 2001</u>	
Chong-sam Chung		
3) <u>In Sik Park</u>	<u>21 May 2001</u>	
In-sik Park		
4) <u>BYOUNGHO CHOI</u>	<u>21 May 2001</u>	
Byoung-ho Choi		
5) <u>TAE-YONG DOH</u>	<u>21 May 2001</u>	

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PATENT  
REEL: 011949 FRAME: 0700