FORM PTO-1595	10-20-2003	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
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	102557591	Attorney's Docket No. 030681-334	
To the Director of the United States Pate		e record the attached original documents or copy thereof.	
Name of conveying party(ies):	2. Na	ame and address of receiving party(ies):	
Yong-su KIM and Young-hun IM) N:	ame: <u>Samsung Electronics Co., Ltd.</u>	
Additional name(s) of conveying party(les) attac		ddress: 416 Maetan-dong, Paldal-gu	
Nature of conveyance:		Suwon-city	
	lerger	Kyungki-do, Republic of Korea	
Security Agreement CI	hange of Name		
Other:	Adı	Additional name(s) & address(es) attached? [] Yes [X] No	
Execution Date: November 14, 2001			
Application number(s) or patent number	er(s):		
If this document is being filed together	with a new application, the e	xecution date of the application is:	
A. Patent Application No.(s)	B. Pa	atent No.(s)	
09/683,131			
Ac	dditional numbers attached?	[] Yes [X] No	
Name and address of party to whom co concerning document should be mailed	orrespondence 6. To	otal number of applications and patents involved: 1	
Name: Charles F. Wieland III	7.7		
Address: Burns, Doane, Swecker & M.		otal fee (37 CFR § 3.41): \$ <u>N/A</u>	
Customer Number 2 1 8 3 5	9 ' '	Authorized to be charged to deposit account, if	
Alexandria, Virginia 22313-14		necessary	
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Stocker W. Selen Bas No. 42 420	1		
Stephen W. Palan, Reg. No. 43,420 Name of Person Signing	Sign	October 20, 2003 ature Date	
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Attomey's Ducker No.	

ASSIGNMENT

(TMIOL)

THIS ASSIGNMENT, by 1) Yong-su Kim and 2) Young-hun Im, residing at
1) 1-404 Sivound Apr., 656 Gaepo 4-dong, Gangnam-qu, Seoul, Rep. of Korea,
and 2) 451-204 Jugong Apt., 44 Jamsil 3-dong, Songpa-gu, Seoul, Rep. of Korea
The state of the s
(hercinafter referred to as "the Assignors"), respectively, witnesseth:
WHEREAS, the Assignors have invented certain new and useful improvements in
VERTICAL WRITING TYPE MAGNETIC HEAD
gay forth in an angligate day to the second of the United Course () which in a manufactural
set forth in an application for Letters Patent of the United States, () which is a provisional application to be filed herewith: () which is a non-provisional application having an oath or
declaration executed on even date herewith prior to filing of application; [4] bearing Application No.
09/683,131 , and filed on November 23, 2001 ; and
, and med on November 23, 21th
WHEREAS, Samsung Electronics Co., Ltd.
a corporation duly prognized under and pursuant to the laws of Rep. of Korea and
having its principal place of business at 416 Maetan-dong, Paldal-gu, Suron-city,
Kyungki-do, Rep. of Korea
(hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest
in and to said inventions, the right to file applications on said inventions and the entire right, title
and interest in and to any applications, including provisional applications for Letters Patent of the
United States or other countries claiming priority to said application, and in and to any Letters
Patent or Patents, United States or foreign, to be obtained therefor and thereon.
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold,
assigned, transferred, and set over, and by these presents do sell, essign, transfer, and set over.
unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and
interest in and to the above-mentioned inventions, the right to file applications on said inventions
and the onure right, title and interest in and to any applications for Letters Petent of the United
States or other countries claiming priority to said applications, and any and all Letters Patent or
Patents of the United States of America and all foreign countries that may be granted therefor and
thereon, and in and to any and all applications claiming priority to said applications, divisions,
continuations, and continuations-in-part of said applications, and reissues and extensions of said
Letters Patent or Patents, and all rights under the International Convention for the Protection of
Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf
and the use and behalf of its successors, legal representatives, and assigns, to the full and of the
term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;
Annual uses head usid full sulphen by the WzaiAuntz use files and suid spaidiment not pecu inspe-
AND for the same consideration, the Assignors hereby covenant and agree to and with
the Assigned, its audcessors, legal representatives, and assigns, that, at the time of execution and
delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title,
and interest in and to the inventions set forth in said applications and said applications, including

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Application (17) (3) Attrices to Do (1) fac-

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provisional applications, above-mentioned, and that the same are unencombeted, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its audiessors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lewful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Lotters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, LL.F. of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignce as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date 14 November 2001 Signature of Assigner

Yong-gu Kim

Date 14. November 2001 Signature of Assignor

Young hun Im

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RECORDED: 10/20/2003