Customer Service Window
Mail Stop Assignment Recordation Services
Randolph Building
401 Dulany Street
Alexandria, VA 22314



Atty. Docket No.: 8947-000207/US

Page 1 of 1

_		
RECOR	EDATIO	ON FO

To the Honorable Commission

02-06-2007
103370326

Please record the attached orig	103370320	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)	
(1) Ui-Hui KWON, (2) Tai-Kyung KIM, (3) Gyeong-Su KEUM,	Name: SAMSUNG ELECTRONICS CO., LTD.	
(4) Won-Young CHUNG and (5) Kwang-Ho CHA	Street Address: 416 Maetan-dong, Yeongtong-gu	
Additional name(s) of conveying party(ies) attached? YES NO	City: Suwon-si State: Gyeonggi-do	
3. Nature of conveyance:	Country: Republic of Korea	
Assignment		
☐ Change of Name ☐ Other:	Additional name(s) & address(es) attached? YES NO	
Execution Date: (1) 01/29/2007, (2) 01/29/2007, (3) 01/29/2007, (4) 01/29/2007, (5) 01/29/2007		
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the	e execution date of the application is:	
A. Patent Application No(s).	B. Patent No.(s).	
11/544,595		
Additional numbers attac	hed? 🗌 YES 💹 NO	
5. Name and address of party to whom correspondence	6. Total No. of applications/patents involved: One (1)	
concerning document should be mailed:	7. Total fee (37 C.F.R. § 3.41): \$40.00	
Name: HARNESS, DICKEY & PIERCE, P.L.C.	⊠ Enclosed	
Street Address: P.O. BOX 8910	Authorized to be charged to deposit account,	
City: RESTON State: VA ZIP: 20195	if no fee attached.	
Country: USA	8. Deposit account number: <u>08-0750</u>	
	(Attach triplicate copy of this page	
	if paying by deposit account)	
	ETHIS SPACE	
9. Statement and signature.	/	
	nformation is true and correct and any attached copy is a true	
copy of the original document.		
John A. Castellano, #35,094 Name of Person Signing/Reg. No.	February 1, 2007 Date	
Total number of pages including cov	er sheet, attachments, and document:	
	JAC/LYP:psy	

02/05/2007 DBYRNE 00000021 11544595 01 FC:8021 40.00 OP

ASSIGNMENT

Atty. Docket No. 8947-000207/US

To:900117036688200

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

FILAMENT MEMBER, ION SOURCE, AND ION IMPLANTATION APPARATUS for which Assignor is about to make or hos made United States or International application for

a)		executed on even date preparatory to filling (each inventor should eighthia Assignment on the same day as he/she signs the Declaration and Power of Attorney);
b)		or; or; or
(c)	岔	filed on October 10, 2006, and assigned Serial No. 11/544,595 or PCT International Application No;
(d)		U.S. Patent No; lasued; and

WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-Dong, Yeongtong-Gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring an interest therein;

NOW. THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for petent and all Letters Patent therefor to be held and enjoyed by Assignee to the full and of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignes without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or oncumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissionor of Patonts and Trademarks to Issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Cortificate to Assignee.

The undersigned hereby grant(s) the law firm of Hamess, Dickey & Plarce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Page 1 of 2

PATENT REEL: 018871 FRAME: 0770

ASSIGNMENT

Ui-Hui Kwon

2007 1, 29

Dated

Tal-Kyung Kill 201 - 29

Dated

Gyeong-Su KEUM

2007 1, 29

Dated

Mon-Jourg Chung
Won-Young CHUNG

Dated

Kwang-Ho CHA

2001, 29

Dated

Page 2 of 2

PATENT REEL: 018871 FRAME: 0771