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Atty. Docket No.: 8947-000284/US Page 1 of 1

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	_	SHEET			
To the Pleas 103478	- -	l Trademarks: r copy thereof.			
Name of conveying party(ies):	2. Name and a	address of receiving party(ies)			
1. Jung-Yeon KIM	Name: SAI	MSUNG ELECTRONICS CO., LTD.			
2. Hiromichi TANAKA	Street Address: 416, Maetan-Dong, Yeongtong-Gu, Suwon-si				
Additional name(s) of conveying party(ies) attached? VES NO	City: Gyeonggi-do				
3. Nature of conveyance:	Country: R	Republic of Korea Postal Code:			
Assignment Merger Security Agreement					
☐ Change of Name ☐ Other:	Additional name(s) & address(es) attached? YES NO				
Execution Date: 1. January 22, 2008; 2. January 25, 2008					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:					
A. Patent Application No(s).	Patent Application No(s). B. Patent No.(s).				
11/896,789					
Additional numbers attached? TYES NO					
5. Name and address of party to whom correspondence concerning document should be mailed:	ess of party to whom correspondence 6. Total No. of applications/patents involved: One (1)				
Name: HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 C.F.R. § 3.41): \$40.00				
Street Address: P.O. BOX 8910	⊠ Enclosed				
	⊠ Authorized	to be charged to deposit account,			
City: RESTON State: VA ZIP: 20195	if no fee a	ount number: <u>08-0750</u>			
Country: USA	o. Deposit acc	outt number. <u>06-0750</u>			
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9. Statement and signature.	THIS SPACE				
To the best of my knowledge and belief, the foregoing is of the original document.	formation is true	and correct and any attached copy is a true copy			
John A. Castellano/35,094 Name of Person Signing/Reg. No.	Signature	January 25, 2008 Date			
Total number of pages including cover speet, attachments, and document: Three (3) 01/29/2008 MJAMA1 00000059 11896789					
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Atty, Docket No. 5947-000234/US

ASSIGNMENT

WHEREAS, the undersigned, hereinator referred to collectively as Assigner, has invented:

IMAGE SENSOR GOLOR FILTER ARRAY AND METHOD OF PRODUCING THE SAME

inr whish patent	****	lgnor id	s about to make or has made United States or International application (
(;	u)	[]	executed on even date propertitory to filing (each inventor should sign this Assignment on the sume day as he/she signs the Denismition of Power of Attorney);
ŋ	b)		executed on or
(u)	13	filed on <u>Sentember 8, 2007</u> , and assigned Senti No. 11/899,789 or PC international Application No.
,	٠.	(~)	U.S. Potont Blo issued : stud

WHEREAS, Sameung Stectronics Co., Ltd., 416, Meeten-Dong, Yeungburg-Cu. Suwon-al, Gyeonggi-do, Republic of Korza, horsinafter referred to as Assignee, is desirous of negulation an interest themsin:

MOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby admowledged, Assignor by these presents does soil, pasign and transfer unto Assignee and its successors in interest, the full and exclusive right, fittle and interest in the United states of America and all fereign countries, including the right to claim priority under the tax of the United States, the Paris Convention, and any foreign countries, to the soid invention as described in the ofcreseid application, said application for putent and all latters Parent therefor to be hold and enjoyed by Assignes to the full and of the term for which said Latters Patent are granted and any extensions thereof as fully and entirely as the same would have been hold by Assigner had this assignment and sole not been made, and the right to recover for post-infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting thereform:

Assigner hursby covariants and agrees to execute all instruments or documents required or required 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-exemination, 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 United States application for patent united States application for patent united States applications.

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

Assignor hereby requests the Commissioner of Patents 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 aforesald, to issue said Letters Patent, Utility Model Registration or Invantor's Continents to Assignee.

Page 1 of 2

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Atty, Docket No. 8947-000294/US

ASSIGNMENT

The undersigned hereby grant(z) the law firm of Hamess, Dickey & Pierce, 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.

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Hiromichi TANAKA

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PATENT

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Atty. Docket No. 8947-000284/US

ASSIGNMENT

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

IMAGE SENSOR COLOR FILTER ARRAY AND METHOD OF PRODUCING THE SAME

for which patent	Assig	nor is a	about to make or has made United States or International application for
(8	1)		executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
(1)		executed on; or
(0	>)	\boxtimes	filed on <u>September 6, 2007</u> , and assigned Serial No. <u>11/896,789</u> or PCI International Application No;
(4	d)		U.S. Patent No; 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 patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end 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 sald applications or patents resulting therefrom:

Assignor hereby coverants 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 Assignee without further or other compensation than that above set forth;

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

Assignor hereby requests the Commissioner of Patents 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 Certificate to Assignee.

Page 1 of 2

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Atty. Docket No. 8947-000284/US

ASSIGNMENT

The undersigned hereby grant(s) the law firm of Hamess, Dickey & Pieros, 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.

Jung-Year Kill

Dated

Liromichi Tongka
Hiromichi TANAKA

Jan. 25, '08

Dated

Page 2 of 2

TOTAL P.012

PATENT REEL: 020444 FRAME: 0387

RECORDED: 01/25/2008