

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto: 1. Name of Conveying Party(ies): Chulsoo YOON, Joon Ho YOON, Chang Hoon KWAK, Yun Seup CHUNG Additional name(s) of conveying party(ies) attached? Yes No Nature of Conveyance: Merger Security Agreement Change of Name Change of Name Other Execution Date: August 7, 2006	,	2006				
1. Name of Conveying Party(ies): Chulsoo YOON, Joon Ho YOON, Chang Hoon KWAK, Yun Seup CHUNG Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of Conveyance: Security Agreement Merger Security Agreement August 7, 2006 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: August 7, 2006 A. Patent Application No(s). Additional name(s) & address(es) attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a rue copy of the original document. Stephen A. Becker 26.527 Name and Registration No. of Person Signing 2. Name and address of receiving party(ies): Name: SAMSUNG ELECTRO-MECHANICS CO., LT Naddress: 314 Maetan-3-dong, Noungtong-ku, voungtong-ku,	(Rev. 10/02) Docket No.: 069576-0116	Patent and Trademark Office				
Chulsoo YOON, Joon Ho YOON, Chang Hoon KWAK, Yun Seup CHUNG Additional name(s) of conveying party(ies) attached?	To the Honorable Commissioner for Patents and Trademarks:	Please record the attached original documents or copy thereto:				
Seup CHUNG Additional name(s) of conveying party(ies) attached?	1. Name of Conveying Party(ies):	2. Name and address of receiving party(ies):				
Additional name(s) of conveying party(ies) attached? \ \text{ yes } \ \text{ No} \\ 3. Nature of Conveyance: \ \text{ Adsignment } \ \text{ Merger } \ \text{ Security Agreement } \ \text{ Change of Name } \ \text{ Change of Name } \ \text{ Other } \ \text{ Execution Date: August 7, 2006} \ \text{ Additional name(s) & address(es) attached? } \ \text{ Yes } \ \text{ No} \\ 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: August 7, 2006 \ \text{ A. Patent Application No(s).} \ \text{ B. Patent No(s).} \ \text{ B. Patent No(s).} \ \text{ B. Patent No(s).} \ \text{ S. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: \ \text{ City: Washington State: D. C. Zip: 20005-3096} \ \text{ DO NOT USE THIS SPACE} \ \text{ D. Not use This SPACE} \ \text{ D. Not whome date of the original document.} \ \text{ Stephen A. Becker 26,527} \ \text{ Adgusts 2.526} \ \text{ August 3.5266} \ \text{ Name and Registration No. of Person Signing} \ \text{ Signature Total number of pages including cover sheet: } \ \text{ 2 CMB No. 0651-0027 (exp. 6/30/2005)} \ \text{ CMB No. 0651-0027 (exp. 6/30/2005)} \ Address: 314 Maetan-3-dong, Morganization is Kyoung for the design in the properties of the context of the cont	Chulsoo YOON, Joon Ho YOON, Chang Hoon KWAK, Yun	Name: SAMSUNG ELECTRO-MECHANICS CO., LTI				
Additional name(s) of conveying party(ies) attached? Yes No Nature of Conveyance:	Seup CHUNG	, o				
3. Nature of Conveyance: Assignment		Address: 314 Maetan-3-dong,				
Additional name(s) & address(es) attached? Yes	Additional name(s) of conveying party(ies) attached? Yes No	o Youngtong-ku, Suwon,				
Gother Change of Name Change of N	3. Nature of Conveyance:	Kyungki-do, Republic of Korea				
Other		326 三 1/6				
Additional name(s) & address(es) attached?	☐ Security Agreement ☐ Change of Name					
Additional name(s) & address(es) attached? \[\text{Yes} \] No 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: August 7, 2006 A. Patent Application No(s). Additional numbers attached? \[\] Yes \[\] No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. 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. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 2 OMB No. 0651-0027 (exp. 6/30/2005)	☐ Other					
4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: August 7, 2006 A. Patent Application No(s). B. Patent No(s). Additional numbers attached?	Execution Date: August 7, 2006					
If the document is being filed together with a new application, the execution date of the application is: August 7, 2006 A. Patent Application No(s). Additional numbers attached?		Additional name(s) & address(es) attached? Yes No				
A. Patent Application No(s). Additional numbers attached? □ Yes □ No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. 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. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) \$40.00 Enclosed Authorized to be charged to deposit account number: 500417 Supposit account number: 500417	4. Application number(s) or patent number(s):					
Additional numbers attached? \[\text{ Yes } \] No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. Total fee (37 CFR 3.41) \$40.00 Enclosed Authorized to be charged to deposit account	If the document is being filed together with a new application, the execution date of the application is: August 7, 2006					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. 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. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) \$40.00 Authorized to be charged to deposit account solutions: 8. Deposit account number: 500417 Part of 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. Stephen A. Becker 26,527 August 3. 2006 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) \$40.00 Authorized to be charged to deposit account solutions: 500417 Part of the correct and any attached copy is a true copy of the original document. 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. Total number of applications and patents involved:	A. Patent Application No(s).	B. Patent No(s).				
5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. 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. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) \$40.00 Authorized to be charged to deposit account solutions: 8. Deposit account number: 500417 Part of 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. Stephen A. Becker 26,527 August 3. 2006 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) \$40.00 Authorized to be charged to deposit account solutions: 500417 Part of the correct and any attached copy is a true copy of the original document. 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. Total number of applications and patents involved:						
5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. 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. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) \$40.00 Authorized to be charged to deposit account solutions: 8. Deposit account number: 500417 Part of 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. Stephen A. Becker 26,527 August 3. 2006 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) \$40.00 Authorized to be charged to deposit account solutions: 500417 Part of the correct and any attached copy is a true copy of the original document. 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. Total number of applications and patents involved:						
concerning document should be mailed: Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	Additional numbers attached? Yes No					
Name: MCDERMOTT WILL & EMERY LLP Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:				
Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	concerning document should be mailed:					
Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	Name: MCDERMOTT WILL & EMERY LLP	7. Total fee (37 CFR 3.41) \$40.00				
Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	Internal Address:	☐ Enclosed				
Street Address: 600 13th Street, N.W. City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)		Authorized to be charged to deposit account				
City: Washington State: D. C. Zip: 20005-3096 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	Street Address: 600 13th Street, N.W.	8. Deposit account number:				
DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)		500417				
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	City: Washington State: D. C. Zip: 20005-3096	5				
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document. Stephen A. Becker 26,527 Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)	DO NOT USE	THIS SPACE				
Stephen A. Becker 26,527 Name and Registration No. of Person Signing Total number of pages including cover sheet: 2 OMB No. 0651-0027 (exp. 6/30/2005)		~				
Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: OMB No. 0651-0027 (exp. 6/30/2005)						
Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: OMB No. 0651-0027 (exp. 6/30/2005)						
Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: OMB No. 0651-0027 (exp. 6/30/2005)	04	Zoelk				
Name and Registration No. of Person Signing Signature Total number of pages including cover sheet: OMB No. 0651-0027 (exp. 6/30/2005)	Stephen A. Becker 26,527	August \$, 28 06				
OMB No. 0651-0027 (exp. 6/30/2005) Total number of pages including cover sheet:	Name and Registration No. of Person Signing	Signature Date				
OMB No. 0651-0027 (exp. 6/30/2005)						
1/28/2006 FC: 8021		22				
		.18021				
		8/28 1 FC				

PATENT

REEL: 018208 FRAME: 0874

(SAB) Docke				
		ASSIGNMENT		
suffici	In consideration of the premises and ency of which is hereby acknowledged, the		ele consideration in ha	nd paid, the receipt and
	YOON, Chulsoo YOON, Joon Ho	(5)		
(3) -	KWAK. Chang Hoon	(7)		_
(4)	YOON, Joon Ho KWAK, Chang Hoon CHUNG, Yun Seup	(8)		
	ave made a certain new and useful inventio		nd transfer unto	
314 M	aetan-3-dong, Youngtong-ku, Suwon, Kyu	ngki-do, Republic of Ko	orea	
Ameri	cessors and assigns (hereinafter designated ca as defined in 35 U.S.C. 100 in the inven COMPOSITE PHOSPHOR POWDER, LIMETHOD FOR MANUFACTURING COMP	tion entitled GHT EMITTING DEVI	CE USING THE SAME	st for the United States of
(a) for	which an application for United States I			
and ide	entified by United States Serial No.		; or	
(b)	for which an application for	r United States	Letters Patent	was executed on
and al substit Conve assigns on beh applica the sai improvany pa protect	e undersigned hereby authorize and request I United States Letters Patent which mautes, renewals, continuations, or continuation for the Protection of Industrial Propes and legal representatives; the undersigned alf of said ASSIGNEE; AND the undersigned hereby agree to the total for and obtaining original, divisional, divisional, divisional, divisional, divisional, divisional, and applications for patent based pers by the said ASSIGNEE, its successors to and title in and to the invention hereby ED on the dates indicated aside our signature.	y be granted therefor ions-in-part thereof, an rty to the said ASSIGN d agree that the attorner ransfer a like interest, reissued or extended L legal representatives, thereon, growing out of, assigns and legal repretransferred.	and any and all extensed the right to all benefite EE, for its interest as A and to render all necessetters Patent of the Unit and without further render or related to the said	sions, divisions, reissues, its under the International SSIGNEE, its successors, lication shall hereafter act sary assistance in making ed States, upon request of nuneration, in and to any invention; and to execute
Π	NVENTORS	DATE	E SIGNED	
1) _ <u>N</u>	Jame: YOON, Chulsoo	2.0	06.1817	
	/ - 2 >			
2)	Iame: YOON, Joon Ho		26.8.7	
N	lame: YOON, Joon Ho		,	
3) <u> </u>	KC4 Jame: KWAK, Chang Hoon	200	6/8/1	
4) <u> </u>	lame: CHUNG, Yun Seup	A	ng. 7, 2006.	<u>-</u>
5)	Jame:			
1\	anic.			
6)	lame:			_
N	ame:			

RECORDED: 08/23/2006

PATENT REEL: 018208 FRAME: 0875