Form PTO-1595 (Rev. 09/ 04) OMB No. 0651-0027 (exp. 8/30/2005)	U.S. DEPARTMENT OF COMMER United States Palent and Trademark Of	
RECORDATION FOR	M COVER SHEET	
PATENTS	ONLY	
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.	_
Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(les)	
JIN SUK JEONG (12/10/2007), KI SOO LEE (12/10/2007), KYOUNG JUN KIM (12/10/2007), JU HEON LEE (12/10/2007), AND		
	Name: SAMSUNG CORNING CO., LTD.	-
	Internal Address:	-
Execution Date(s): in parentheses after inventor name	Street Address:	
Additional name(s) of conveying party(les) attached? X Yes No		
3. Nature of Conveyance:	472, Sin-dong, Yeongtong-gu	
X Assignment Merger		
Security Agreement Change of Name	city: Suwon-si, Gyeonggi-do	
Government Interest Assignment	State:	-
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 443-732	-
	Additional name(s) & address(es) Yes X No	-
Other	attached:	
A. Patent Application No.(s) 11/978,547 Additional numbers attached?	Yes XNo	
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Daryl K. Neff LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	_
Internal Address: Atty. Dkt.: SAMSUN 3.0-032 (33)	Authorized to be charged by credit card	
Street Address: 600 South Avenue West	Authorized to be charged to deposit account Enclosed None required (government interest not affecting tit	ile)
City: Westfield	B. Payment Information	
State: NJ Zip: 07090	a. Credit Card Last 4 Numbers	
Phone Number: (908) 518-6396	Expiration Date	_
Fax Number: (908) 654-0415	b. Deposit Account Number 12-1095	_
Email Address: dneff@ldlkm.com	Authorized User Name Daryl K. Neff	=
9. Signature:	January 16, 2008	_
Signature	Date	٦
Daryl K- Neff - 38,253	Total number of pages including cover sheet, attachments, and documents:	
Name of Person Signing		

840007_1.DOC

PATENT REEL: 020375 FRAME: 0879

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Form PTO-1595	TO-1595 RECORDATION FORM COVER SHEET (continued)		
Additional Conve	eying Party(ies)/Exe	ecution Date(s) (1. Continued):
Chang Uk Jin (12/1)	0/2007)		
Additional Assign	nees (2. Continued)	:	<u>.</u>
Assignee Name:			
Internal Address: Street Address:			
City:	State:	Country:	Zip:
Assignee Name;			
Internal Address: Street Address:			
Oity:	State:	Country:	Zip;
Assignee Name:			
Internal Address: Street Address:			
City:	State:	Country:	Zip:
Additional Applica	tions and/or Patent	s (4. Continued):	
Additional Patent Application	on Numbers	Additional Patent Numbers 4B. Continued:	
	Additional numbers	attached? Yes No	<u> </u>

640007_1.DOC 2 Docket No.: SAMSUN 3,0-032

<u> </u>	former PTO/SB/15 (8-00) Modified LDLK8
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
	SAMSUN 3.0-032
Whereas, I, Jin Suk JEONG	of
c/o Samsung Corning Co., Ltd.; Korea Advanced Nano F	ab Center 3F; 906-10, Jui-dong,
Yeongtong-gu; Suwon-si; Gyeonggi-do; REPÜBLIC OF I	OREA 472-732
hereafter referred to as assignor, have with others invented certa GaN SINGLE CRYSTAL SUBSTRATE AND METHOD GaN SINGLE CRYSTAL SUBSTRATE	n new and useful improvements in FOR PROCESSING SURFACE OF
x for which an application for a United States Letters Pater	nt was filed on October 29, 2007
Application Number 11/978,547	<u> </u>
x for which an application for a United States Letters Patent	was executed by me on,
x for which an International Application was filed on _	, as
, designating the United S	States.
And	
Whereas, Samsung Corning Co., Ltd.	
a corporation of <u>Korea, Republic of</u> herein referred to as assigne	
472, Sin-dong, Yeongtong-gu; Suwon-si, Gyeonggi-do; REPL Is desirous of acquiring the entire right, title and interest in the san	BLIC OF KOREA 443-732
the assurance of deciding the chart highly the and interest in the sain	·c,
is acknowledged, and other good and valuable consideration, I a assignee my entire right, title and interest for the United States invention and the aforesaid utility patent application and all orig applications and patents applied for or granted therefor in the U said invention, including without limitation all applications and pat the aforesaid utility application pursuant to any law or treaty, and infringement with the right to sue for and collect the same for its clegal representatives, and including the right to claim such priorit Trademarks is hereby authorized and requested to issue all pate said assignee herein, as assignee of the entire interest the representatives, helrs and assigns do hereby agree and covenant all original, divisional, continuation, reissue and other application assignments thereof to said assignee or its assigns, to communic known to the undersigned respecting said improvements, whenever the end of the said applications or patents may rightful oaths, and to do generally everything necessary to aid a potaln patent protection for said improvements in all countries, the and paid by sald assignee.	of America and all other countries in and to said jinal, divisional, continuation, substitute or reissue inted States of America and all other countries, for ents for said invention claiming priority or benefit of including all claims for damages by reason of past including all claims for damages by reason of past including all claims for damages by reason of past including all claims for damages by reason of past including and the use of its successors, assigns and y or benefit and the Commissioner of Patents and ints on said improvements and my legal without further remuneration, to execute and delivers for Letters Patent on said improvements and all ate to said assignee or its representatives all facts or requested, to testify in any interferences or other become involved, to sign all lawful papers, make all ssignee, its successors, assigns and nominees to expenses incident to said applications to be borne
And I do hereby authorize my attorneys to insert on this deed the filter when known. Date Date Ik Bae LEE Typed Name of Witness	ing date and application number of said application Jin Suk JEONG
<u> </u>	
v *Total of 5 forms are submitted	

PATENT

REEL: 020375 FRAME: 0881

→ USPTO ASSIGNMENT 2005/008

former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION SAMSUN 3.0-032 Whereas, I, Ki Soo LEE c/o Samsung Corning Co., Ltd.; Korea Advanced Nano Fab Center 3F; 906-10, lui-dong, Yeongtong-gu; Suwon-si; Gyeonggi-do; REPUBLIC OF KOREA 472-732 hereafter referred to as assignor, have with others invented certain new and useful improvements in Gan SINGLE CRYSTAL SUBSTRATE AND METHOD FOR PROCESSING SURFACE OF GaN SINGLE CRYSTAL SUBSTRATE for which an application for a United States Letters Patent was filed on October 29, 2007 Application Number 11/978,547 x for which an application for a United States Letters Patent was executed by me on x for which an International Application was filed on , designating the United States. And Whereas, Samsung Corning Co., Ltd. a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is 472, Sin-dong, Yeongtong-gu; Suwon-si, Gyeonggl-do; REPUSLIC OF KOREA 443-732 is desirous of acquiring the entire right, title and interest in the same: NOW, THEREFORE, in consideration of the sum of one dollars (\$), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful daths, and to do generally everything necessary to ald assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee. And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known. Ik Bae LEE Typed Name of Witness

x *Total of 5 forms are submitted.

former PTO/SB/15 (9-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
	SAMSUN 3.0-032
Whereas, I, Kyoung Jun KIM	of
c/o Samsung Corning Co., Ltd.; Korea Advanced Nano I Yeongtong-qu; Suwon-si; Gyeonggi-do; REPUBLIC OF	
hereafter referred to as assignor, have with others invented certa GaN SINGLE CRYSTAL SUBSTRATE AND METHOD GaN SINGLE CRYSTAL SUBSTRATE	in new and useful improvements in
x for which an application for a United States Letters Pate	nt was filed on October 29, 2007
Application Number 11/978,547 x for which an application for a United States Letters Paten	twose evented by me on
X for which an International Application was filed on	
, designating the United	· · · · · · · · · · · · · · · · · · ·
And	
Whereas Samsung Corning Co., Ltd.	-
a corporation of Korea, Republic of herein referred to as "assignation of the second o	-
472, Sin-dong, Yeongtong-gu; Suwon-si, Gyeonggi-do; REP is desirous of acquiring the entire right, title and interest in the sa	
assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all or applications and patents applied for or granted therefor in the Usaid invention, including without limitation all applications and patents aforesaid utility application pursuant to any law or treaty, and infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such prior Trademarks is hereby authorized and requested to issue all patent assignee herein, as assignee of the entire interest the representatives, helirs and assignee of the entire interest the representatives, helirs and assignee or its assigns, to communicate assignments thereof to said assignee or its assigns, to communicate the interest thereof to said assignee or its assigns, to communicate the interest thereof to said assignee or its assigns, to communicate the interest thereof to said assignee or its assigns, to communicate the interest thereof to said assignee or its assigns, to communicate the interest thereof to said assignee or its assigns, to communicate the interest thereof to said assignee or its assigns, to communicate the interest thereof to said assignee or its assigns, to communicate the interest thereof to said applications or patents may ightful oaths, and to do generally everything necessary to aid application or patents may ightful oaths, and to do generally everything necessary to aid application of the interest	iginal, divisional, continuation, substitute or reissue inited States of America and all other countries, for tents for said invention claiming priority or benefit or directly including all claims for damages by reason of pastitum use and the use of its successors, assigns and ity or benefit and the Commissioner of Patents and ity or benefit and the Commissioner of Patents and its on said improvements or resulting therefrom to erein; and the undersigned for me and my legal without further remuneration, to execute and deliver its for Letters Patent on said improvements and all state to said assignee or its representatives all facts are requested, to testify in any interferences or other become involved, to sign all lawful papers, make all assignee, its successors, assigns and nominees to be expenses incident to said applications to be borned.
when known. Date Date	Kyoung Jun KIM
Witness	
Ik Bae LEE Typed Name of Witness	
x *Total of 5 forms are submitted.	

PATENT

REEL: 020375 FRAME: 0883

former PTO/SB/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)	
	SAMSUN 3.0-032	
Whereas, I, _Ju Heon LEE	of	
Samsung Corning Co., Ltd.; Korea Advanced Nano Fab Center 3F; 906-10, lui-dong, Yeongtong- gu; Suwon-Si; Gyeonggi-do; REPUBLIC OF KOREA 472-732		
hereafter referred to as assignor, have with others invented certain GaN SINGLE CRYSTAL SUBSTRATE AND METHOD I GaN SINGLE CRYSTAL SUBSTRATE	new and useful improvements in	
for which an application for a United States Letters Patent Application Number 11/978,547	t was filed on October 29, 2007	
for which an application for a United States Letters Patent v	vas executed by me on	
x for which an International Application was filed on	, as	
, designating the United St	tates.	
Whereas, Samsung Corning Co., Ltd.		
a corporation of Korea, Republic of herein referred to as "assignee	" whose meiling address is	
· ·	•	
472, Sin-dong, Yeongtong-gu; Suwon-Si, Gyeonggi-Do; REPU is deslrous of acquiring the entire right, title and interest in the same		
is acknowledged, and other good and valuable consideration, I as assignee my entire right, title and interest for the United States invention and the aforesaid utility patent application and all original applications and patents applied for or granted therefor in the United Invention, including without limitation all applications and patents aforesaid utility application pursuant to any law or treaty, and it infringement with the right to sue for and collect the same for its ox legal representatives, and including the right to claim such priority. Trademarks is hereby authorized and requested to issue all patents said assignee herein, as assignee of the entire interest there representatives, heirs and assignee or the entire interest there representatives, heirs and assignee or its assigns, to communicate all original, divisional, continuation, reissue and other applications assignments thereof to said assignee or its assigns, to communicate known to the undersigned respecting said improvements, whenever legal proceedings in which any of said applications or patents may be rightful oaths, and to do generally everything necessary to aid association patent protection for said improvements in all countries, the read and paid by said assignee. And I do hereby authorize my attorneys to insert on this deed the falling assignments in the countries of the falling and paid to hereby authorize my attorneys to insert on this deed the falling assignments.	of America and all other countries in and to said inal, divisional, continuation, substitute or reissue ited States of America and all other countries, for ints for said invention claiming priority or benefit of including all claims for damages by reason of past who use and the use of its successors, assigns and or benefit and the Commissioner of Patents and its on said improvements or resulting therefrom to early and the undersigned for me and my legal without further remuneration, to execute and deliver for Letters Patent on said improvements and all atte to said assignee or its representatives all facts or requested, to testify in any interferences or other become involved, to sign all lawful papers, make all signee, its successors, assigns and nominees to expenses incident to said applications to be borne	
Dec. (0, 200) Date Witness Ik Bae LEE Typed Name of Witness	Ju Heon Lee	
x *Total of 5 forms are submitted.		

LDLKM

PATENT

REEL: 020375 FRAME: 0884

RECORDED: 01/16/2008

LDLKM

former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION SAMSUN 3.0-032 Whereas, I, Chang Uk JIN c/o Samsung Corning Co., Ltd.; Korea Advanced Nano Fab Center 3F; 906-10, Jui-dong, Yeongtong-gu; Suwon-si; Gyeonggi-do; REPUBLIC OF KOREA 472-732 hereafter referred to as assignor, have with others invented certain new and useful improvements in GAN SINGLE CRYSTAL SUBSTRATE AND METHOD FOR PROCESSING SURFACE OF GAN SINGLECRYSTAL SUBSTRATE x for which an application for a United States Letters Patent was filed on October 29, 2007 Application Number __11/978,547 for which an application for a United States Letters Patent was executed by me on for which an International Application was filed on , designating the United States. And Whereas, Samsung Corning Co., Ltd. a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is 472, Sin-dong, Yeongtong-gu; Suwon-si, Gyeonggi-do; REPUBLIC OF KOREA 443-732 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, In consideration of the sum of one dollars (\$ 1.00 is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and Interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful paths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee. And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known. Ik Bae LEE Typed Name of Witness *Total of X forms are submitted.

> PATENT REEL: 020375 FRAME: 0885