Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Zhiyuan CUI	12/18/2009
Injae CHUNG	12/21/2009
Namsoo KIM	12/18/2009

RECEIVING PARTY DATA

Name:	LG Display Co., Ltd.	
Street Address:	20 Yoido-dong, Yongdungpo-Gu	
City:	Seoul	
State/Country:	REPUBLIC OF KOREA	
Postal Code:	150-721	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12646309

CORRESPONDENCE DATA

Fax Number: (202)739-3001

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 4: Washington, DISTRICT OF COLUMBIA 20004

ATTORNEY DOCKET NUMBER: 065543-5178

NAME OF SUBMITTER: Robert J. Goodell

Total Attachments: 4

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PATENT REEL: 023696 FRAME: 0494

ATTORNEY DOCKET NO: 065543-5178 SOLE/JOINT INVENTION (U.S. Rights Only)

ASSIGNMENT

WHEREAS I/We, the	below named inve	entor(s), [hereinafter re	ferred to as Assignd	or(s)], have	
made an invention entitled:	DIGITAL-TO A	NALOG CONVERT	ER i		
	DIGITILE TO				
for which I/WE executed an a application for United States L	oplication for Unit etters Patent on	ed States Letters Paten _, (Application No	t concurrently here _); and	with; or filed	an
WHEREAS, LG Disp Yoido-Dong, Yongdungpo-Gu is desirous of securing the enti United States Letters Patent or	r, Seoul, 150-721 re right, title, and	interest in and to this in	reinafter referred to nvention, the applic	as Assignee, ation for),
NOW THEREFORE, from assignee is hereby acknown and do hereby sell, assign, transmy/OUR entire right, title, ar continuations thereof, and all reissues thereof; and I/WE hereby the United States to issue all Laccordance with the terms of the continuation of the conti	wledged, I/WE, as asfer, and set over d interest in and to Letters Patent of the by authorize and acters Patent for the	unto the assignee, its I of this invention and thing United States which request the Commission	, assigned, transten awful successors and a application, and a may be granted the oner of Patents and	ed, and set on d assigns, Il divisions, a reon, and all Trademarks	ver, and
AND, I/WE HEREBY communicate with assignee, is invention and testify in any le and deliver all papers that may assignee, its successors and as all rightful oaths and generally and enforce proper patent proexpense incident to the execu	as successors and a gal proceeding, sig y be necessary or d signs, execute all y do everything po tection for this inv	on all lawful papers whe lesirable to perfect the divisional, continuation ssible to aid assignee, ention in the United St	n to ME/US respection called upon to dititle to this invention, and reissue applicits successors and a ates, it being understants.	ting this o so, execute on in said cations, make ssigns, to ob- stood that an	e ain
and Power of Attorney in this) the filing da	application, to ins te and application	quest the attorneys I/W ert here in parenthesis number of said applica we hereunto set our ha	(Application No ation when known.	in the Decla	ration , filed
Full Name of Sole or First Ass		Assignor's Signature		Date	,
Name: Zhiyuan CUI	gnor	上玩		Dec. 19	8,200
Address 203, Chungbuk Ur	inordity Education	Center 410 Sennoho	ng-ro Heungduk-	Citizenship	
gu, Cheongju-si, Chungcheor	nversity Education	Center, 410, Scongoo	g 10, 110ag=p	(China
		Assignor's Signature		Date	
Full Name of Second Assignor		rtssignors organization		1	
Injae CHUNG Address 704-504, Jugong	Apartment, Byec	oryang-dong, Gwach	eon-si,	Citizenship	Korea
Gyeonggi-do, Korea Names of additional inventors a	ttached XYes	□ No		<u> </u>	

DB1/64101324.1

PATENT REEL: 023696 FRAME: 0495

Full Name of Third Assignor	Assignor's Signature	Lec. 18,2009
Namsoo KIM	11 lamoto Km	Citizenship
Address	410.0	Citizensnip Korea
Chungbuk University Education Center	r, 410, Seongbong-ro,	1.0100
Heungduk-gu, Cheongju-si, Chungched	onbuk-do, Korea	Date
Full Name of Fourth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Fifth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Sixth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Seventh Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Eighth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Ninth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Tenth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Eleventh Assignor	Assignor's Signature	Date
Address		Citizenship
Names of additional inventors attached	_Yes ⊠No	

REEL: 023696 FRAME: 0496

ATTORNEY DOCKET NO.: 065543-5178 SOLE/JOINT INVENTION (U.S. Rights Only)

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to a	s Assignor(s)], have
made an invention entitled:	

DIGITAL-TO ANALOG CONVERTER

for which I/WE executed an application for United States Letters Patent concurr	ently herewith; or filed an
application for United States Letters Patent on, (Application No); and	

WHEREAS, LG Display Co., Ltd., a corporation of Korea, whose post office address is 20 Yoldo-Dong, Yongdungpo-Gu, Seoul, 150-721 Republic of Korea (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

and Power of Attorney in this application, to in	n number of said application when known.	, filed
Full Name of Sole or First Assignor Name: Zhiyuan CUI	Assignor's Signature	Date
Address 203, Chungbuk University Educatio gu, Cheongju-si, Chungcheongbuk-do, Korea	n Center, 410, Scongbong-ro, Heungduk-	Citizenship China
Full Name of Second Assignor Injae CHUNG	Assignor's Signature	Dec. 21, 2009.
Address 704-504, Jugong Apartment, Byer Gyeonggi-do, Korea	oryang-dong, Gwacheon-si,	Citizenship Korea
Names of additional inventors attached XYes	□ No	

DB1/64101324.1

PATENT

REEL: 023696 FRAME: 0497

Full Name of Third Assignor	Assignor's Signature	Date
Namsoo KIM		
Address		Citizenship
Chungbuk University Education Con	Korea	
Heungduk-gu, Cheongju-si, Chungch	neonbuk-do, Korea	
Full Name of Fourth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Fifth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Sixth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Seventh Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Eighth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Ninth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Tenth Assignor	Assignor's Signature	Date
Address		Citizenship
Full Name of Eleventh Assignor	Assignor's Signature	Date
Address		Citizenship
Names of additional inventors attached	☐Yes ⊠No	

DB1/64101324.1

PATENT

REEL: 023696 FRAME: 0498