

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Guk Hyun KIM	10/27/2009
Won-Ki HONG	10/27/2009
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<b>Internal Address:</b>	Suwon-Si
<b>City:</b>	Gyeonggi-do
<b>State/Country:</b>	REPUBLIC OF KOREA
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12620398
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<b>Total Attachments: 1</b> source=PANK03372US_ASG_EF#page1.tif	

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**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we


KIM, Guk Hyun	of	A220, Samsung Advanced Institute of Technology, Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Korea
HONG, Won-Ki	of	C210, Samsung Advanced Institute of Technology, Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

hereby sell, assign and transfer to **Samsung Electronics Co., Ltd.** a corporation, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, its successors and assigns, the entire right, title and interest throughout the world in our invention in

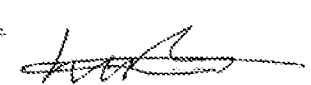
**SHUTTER PIXEL, SHUTTER STRUCTURE INCLUDING THE SHUTTER PIXEL,  
AND EXPOSURE APPARATUS INCLUDING THE SHUTTER STRUCTURE**

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 27 day of October, 2009.

  
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KIM, Guk Hyun

Executed this 27 day of October, 2009.

  
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HONG, Won-Ki