

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3023198

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HEUNG-KYU KWON	01/25/2012
SEONG-HO SHIN	01/19/2012
YUN-SEOK CHOI	01/19/2012
YONG-HOON KIM	01/19/2012
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	443-742
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14190079
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	503-419-6425
Email:	mail@renaissanceiplaw.com
Correspondent Name:	RENAISSANCE IP LAW GROUP LLP (PIP)
Address Line 1:	9600 SW OAK STREET, SUITE 560
Address Line 4:	PORTLAND, OREGON 97223
ATTORNEY DOCKET NUMBER:	8421-007CON
NAME OF SUBMITTER:	HOSOON LEE
SIGNATURE:	/Hosoon Lee/
DATE SIGNED:	09/15/2014
Total Attachments: 3	
source=8421-007CON_Assignment#page1.tif	
source=8421-007CON_Assignment#page2.tif	
source=8421-007CON_Assignment#page3.tif	

ASSIGNMENT

Assignor: HEUNG-KYU KWON

Address: 106-601, Parktown Daelim Apt., Sunae-dong, Bundang-gu,
Seongnam-si, Gyeonggi-do, Republic of Korea

Assignor: SEONG-HO SHIN

Address: 225-403, Sibeom Hanbitmaeul Dongtan I-Park Apt., Bansong-dong,
Hwaseong-si, Gyeonggi-do, Republic of Korea

Assignor: YUN-SEOK CHOI

Address: 405-2502, Solbitmaeul Gyeongnam Anusvill Apt., Bansong-dong,
Hwaseong-si, Gyeonggi-do, Rep. of Korea

Assignor: YONG-HOON KIM

Address: 434-1901, Samsung Apt., Cheongmyeongmaeul 4-danji, Yeongtong-
dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

Assignee: Samsung Electronics Co., Ltd.

Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si,
Gyeonggi-do, Republic of Korea

Title of Invention: SEMICONDUCTOR DEVICES, PACKAGE SUBSTRATES,
SEMICONDUCTOR PACKAGES, PACKAGE STACK
STRUCTURES, AND ELECTRONIC SYSTEMS HAVING
FUNCTIONALLY ASYMMETRIC
CONDUCTIVE ELEMENTS

U.S. Patent Application:

Application Serial No.: 14/190,079

Filing Date: February 25, 2014

U.S. Patent No.:

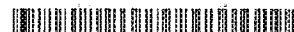
Issued:

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues, non-provisionals and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, non-provisional and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

Executed at Yong-in, 90717855 Ro Korea, this 25 day of
(city) (country)
Jan., 2012.

Heung-Kyu Kwon
HEUNG-KYU KWON
Assignor



Executed at Hwasung, Korea, this 19 day of
(city) (country)
Jan., 2012.

Seongho Shin
SEONG-HO SHIN
Assignor

Executed at Hwasung, Korea, this 19 day of
(city) (country)
Jan., 2012.

Yun-Seok Choi
YUN-SEOK CHOI
Assignor

Executed at Hwasung, Korea, this 19 day of
(city) (country)
Jan., 2012.

Yonghoon Kim
YONG-HOON KIM
Assignor