OP \$40.00 1174

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sang-Gui JO	05/02/2007
Seung-Kon MOK	05/02/2007
Han-Shin YOUN	04/24/2007

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.	
Street Address:	416 Maetan-Dong, Yeongtong-Gu, Suwon-Si	
City:	Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11745342

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 9898-572

NAME OF SUBMITTER: Hosoon Lee

Total Attachments: 2

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> PATENT REEL: 019258 FRAME: 0109

PATENT APPLICATION Docket No.: 9898-572 Client Ref. No.: SS-27738-US

ASSIGNMENT

U.S.A. Patent Application
Sole or Joint
For Inventions Made Outside U.S.A.
Executed With Application

In consideration of the sum of Ten Dollars (10,00) and other good and valuable considerations paid to each of the undersigned, to wit:

- (1) Sang-Gui JO(2) Seung-Kon MOK
- (3) Han-Shin YOUN

X if continued on separate page

the receipt and sufficiency of which are hereby acknowledged by the undersigned who hereby sell(s), assign(s) and transfer(s) unto:

SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, YEONGTONG-GU SUWON-SI, GYEONGGI-DO REPUBLIC OF KOREA

(hereinafter designated "ASSIGNEE") the entire right, title and interest in and to the invention as defined in 35 USC §100, for the United States of America, the invention entitled:

CIRCUIT BOARD INCLUDING SOLDER BALL LAND HAVING HOLE AND SEMICONDUCTOR PACKAGE HAVING THE CIRCUIT BOARD

for which an application for Letters Patent of the United States of America has been executed even date herewith by the undersigned, and in and to any and all divisionals, continuations, substitutes, and reissues thereof; and all resulting patents and the undersigned hereby authorizes and requests the United States Assistant Commissioner of Patents to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

And the undersigned hereby agrees to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

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PATENT REEL: 019258 FRAME: 0110 Please sign concurrently with Oath or Declaration and Power of Attorney

SIGNED ON THE DATES INDICATED BESIDE OUR SIGNATURES:

INVENTOR(S)	DATE SIGNED	WITNESSED
(1) Sang-Gui JO	2 May, (0)	
(2) Jeungfer / Lac Seung-Kon MOK	2 May, 07	
(3) Han-Shin YOUN	24 Apr 107	

PLEASE RETURN RECORDED ASSIGNMENT TO:

Alan T. McCollom Marger Johnson & McCollom 210 S.W. Morrison Street, Suite 400 Portland, OR 97204

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RECORDED: 05/07/2007