U.S. PTO 12/010195 01/22/2008

	02-04-2008					
	RECOF U.S. DEPARIMENT OF COMMERCE					
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	To the Director of the U.S. Patent and Trademark 103479050					
1.	Name of conveying party(ies): 1) Chung-Woo CHO 2) Soon-Jin CHO 3) Byung-Bae SEO 4) Ki-Young YOO 5) Seok-Hwan AHN					
2.	Name and Address of receiving party(ies):					
	SAMSUNG ELECTRO-MECHANICS CO., LTD. 314, Maetan3-Dong, Yeongtong-Gu, Suwon, Gyunggi-Do, KOREA 443-743					
3.	Nature of conveyance: X Assignment					
4.	Application number(s) or patent number(s): This document is being filed together with a new application. This document is being filed after filing of the application:					
5.	Name and address of party to whom correspondence concerning document should be mailed: STAAS & HALSEY LLP Our Docket: 1937.1177 Attention: David M. Pitcher 1201 New York Ave., N.W., Suite 700 Washington, D.C. 20005					
6.	Total number of applications and patents involved:1					
7.	Total fee (37 CFR 3.41) (\$ 40.00 per Patent or Application in Assignment) ☐ Enclosed ☐ Authorized to be charged to deposit account.					
8.	Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)(Attach duplicate copy of this page if paying by deposit account)					
	M. Pitcher, Reg. No. 25,908 of Person Signing Signature January 22, 2008 Date					
	Total number of pages including cover sheet: 2					
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PATENT

REEL: 020450 FRAME: 0132

U.S. ASSIGNMENT

Docket No.

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRO-MECHANICS CO., LTD.

314, Maetan3-Dong, Yeongtong-Gu Gyunggi-Do, KOREA 443-743	, Suwor),		
hereinafter, "ASSIGNEE"), the receipt of which is ransfers to ASSIGNEE the entire and exclusive rititle of Invention) PRINTED CIRCUIT BOARD MANUFACTURE	ight, title ar	nd interest to the inv	ention entitled	
elating to International Patent Application PCT/JF				
States was executed on even date herewith or, if			which application for	Letters Faterit or the Office
(a) executed on;		(Insert date of exec	cution of application,	if not concurrent)
(b) filed on,		Avenue, N.W., Suit	e 700 Washington, l	ALSEY ILP, 1201 New York D.C. 20005 (202/434-1500) is
Serial No;		hereby authorized	to insert in (b) the sp	pecified data, when known.
and to said application and all Letters Patent(s) of enewal, substitute, reissue or reexamination appl Patent(s) may be granted and including any exten Patent(s)*).	lication bas	sed thereon, for the	full term or terms for	which the said Letters
The ASSIGNOR agree(s), when reques ASSIGNEE, to do all acts which the ASSIGNEE menforcing protection for said invention, including in etters Patent(s), in any interference, reissue, reeproceeding which may arise or be declared in relanctuding separate assignments and declarations, evidence.	nay deem r n the prepa examination ation to san	necessary, desirable ration and prosecuti n, or public use proc ne, such acts to incl	or expedient, for se on of said application seeding, and in any li ude but not be limite	curing, maintaining and n(s) and the issuance of said tigation or other legal d to executing all papers,
IN WITNESS WHEREOF, the undersigned inv (Typed Name & Signature of Inventor(s))	ventor(s) ha	as (have) affixed his (Date)	her/their signature(: (Typed Nam	s). ie & Signature of Witness(es)
Chung-Woo CHO	Octo	cer 29 2007	Chungwoo	Cho
2) Soon-Jin CHO	oct	. 2P,2009	SOONJIN) CHO
Byung-Bae SEO	0.6	ber 29, 2001	Brung	Bae Seo
(I) / / / Ki-Young YOO	001	ober 29.3007	Kiyoung	Y.,
5) ON M 3M Seok-Hwan AHN	00	dober 28 200	7 Seak H	lwan Ahn

☐ Additional inventors are being named on separately numbered sheets attached hereto.

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PATENT REEL: 020450 FRAME: 0133