OFFICE OF PUBLIC RECORDS						
2012 DEC -9 AN ID: 21	2-12-2002					
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To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)					
KIM, Su Hyeon	Name: Korea Advanced Institute of Science and Technology					
KIM, Jong Yeon						
YU, Jin 12-9:07	Internal Address: 373-1, Guseong-dong					
Additional name(s) of conveying party(ies) attached? Yes Vo	Yuseong-ku, Taejeon-city 305-701					
3. Nature of conveyance:	Republic of Korea					
Assignment Merger						
	Street Address: <u>373-1 Guseong-dong, Yuseong-ku</u>					
Security Agreement Change of Name	Taejeon-city 305-701, Republic of Korea					
Other						
	City:State:Zip:					
08/26/2002						
Execution Date:	Additional name(s) & address(es) attached? Yes 🖌 No					
Application number(s) or patent number(s):						
	ication, the execution date of the application is:					
A. Patent Application No.(s) <u>10/232,471 with file</u>	B. Patent No.(s)					
date 08/30/2002						
Additional numbers at	ttached? Yes 🖌 No					
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: 0					
concerning document should be mailed:	40.00					
Name:Name:	7. Total fee (37 CFR 3.41)\$40.00					
Roberts Abokhair & Mardula LLC Internal Address:						
	Authorized to be charged to deposit account					
11800 Sunrise Valley Drive, Suite 1000	X Fee previously paid. See Document ID No. 102214915					
Reston, VA 20191						
	9 Dependit appount number					
Roberts Abokhair & Mardula LLC	8. Deposit account number:					
Street Address:Roberts Abokhair & Mardula LLC	8. Deposit account number:					
Street Address:Roberts Abokhair & Mardula LLC 11800 Sunrise Valley Drive, Suite 1000	8. Deposit account number:					
11800 Sunrise Valley Drive, Suite 1000	8. Deposit account number:					
11800 Sunrise Valley Drive, Suite 1000 						
	8. Deposit account number:					
11800 Sunrise Valley Drive, Suite 1000 						
11800 Sunrise Valley Drive, Suite 1000 City: Reston State: VA Zip: 20191 DO NOT USE 9. Signature.						
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Washington, D.C. 20231

PATENT REEL: 013559 FRAME: 0369

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09-	09-2002	Attor	ney Docket No.	2791-006	;	0
			Inventor Method of Fabrica	KIM, Su I	dUBM	n for Flip Chip on
10:	2214915 nal applications under 37 CFR 1.53	<u>Title</u>	Interconnections b ss Mail Label No	<u> </u>		
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Fee Transmittal F	orm (e.g., PTO/SB/17)	7.	CD-ROM or Cl	D-R in duplicat	e, large	
2. Applicant claims s See 37 CFR 1.27		0/ b 28.1	Computer Prog lucleotide and/or Am if applicable, all nece	ino Acid Sequ		ubmission
3. Specification (preferred arrangemen		a.	Computer Re	adable Form (CRF)	
	e to Related Applications	b.	Specification Sequ	•		
•	arding Fed sponsored R & D equence listing, a table,			OM or CD-R (2	2 copies	s); or
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- Brief Summary			ACCOMPANY		CATIO	N PARTS
- Detailed Descri - Claim(s)		7/ 9.		apers (cover s	heet &	
- Abstract of the	Disclosure & Styl	10	37 CFR 3.73((when there i.	(b) Statement s an assignee)	~	Power of Attorney
4. 🔽 Drawing(s) (35 U	S.C. 113) [Total Sheets 04	11		slation Docume		• .
5. Oath or Declaration	[Total Pages 21] 12	Information D)isclosure)S)/PTO-1449		Copies of ID: Citations
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b. Copy from a (for continua	prior application (37 CFR 1.63 (d)) tion/divisional with Box 18 complete	ed) 14		ipt Postcard (N becifically itemi		03)
	ION OF INVENTOR(S)	15	Certified Cop	y of Priority Do	cumen	t(s)
named in t	tement attached deleting inventor(s) he prior application, see 37 CFR and 1.33(b).	16		on Request une opticant must a		
6. Application Data	Sheet. See 37 CFR 1.76	17				
	CATION, check appropriate box, a	nd supply the re	quisite information b	elow and in a p	orelimin	ary amendme
or in an Application Data She	Divisional Continuation-in-pa	irt (CIP)	of prior application No.:_	/		
Prior application information:	Examiner			t Unit:		
For CONTINUATION OR DIVISI Box 5b, is considered a part o The incorporation <u>can only</u> be	ONAL APPS only: The entire disclosure f the disclosure of the approximately of relied upon when a ported in the second se	are of the prior approximation or	oplication, from which divisional application litted from the submit	an oath or dec and is hereby in ted application [laration ncorpora parts.	is supplied un ated by referen
Customer Number or Bar Co	the second s		1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	_		dress below
Name	Roberts Abokhair & Ma	ardula, LL(2			
	11800 Sunrise Valley Drive					
Address	Suite 1000					
City	Reston	State	VA			20191
Country	USA	Telephone	703-391-29	00 Fá	ax	703-391-29
Name (Print/Type)	John K. Abokhair	Re	egistration No. (Atto	orney/Agent)		30,537
Signature				Date	1 08/30	0/2002

PATENT REEL: 013559 FRAME: 0370

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LANDULEVE BLIMMAL DUDUCTON AULSCHIT OZ FC:56

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of KIM, Su Hyeon, KIM, Jong Yeon and YU, Jin

Serial No.: Not Yet Issued

Group Art Unit:

Filed: HEREWITH

Examiner:

FOR: METHOD OF FABRICATING MULTILAYERED UBM FOR FLIP CHIP INTERCONNECTIONS BY ELECTROPLATING

ASSIGNMENT Pursuant to 37 CFR § 3.56

I, KIM, Su Hyeon, residing at Dept. of Materials Science and Engineering, KAIST, 373-1, Guseong-dong, Yuseong-gu, Daejeon-city 305-701, Republic of Korea, I, KIM, Jong Yeon, residing at Dept. of Materials Science and Engineering, KAIST, 373-1, Guseong-dong, Yuseong-gu, Daejeon-city 305-701, Republic of Korea, and I, YU, Jin, residing at Dept. of Materials Science and Engineering, KAIST, 373-1, Guseong-dong, Yuseong-gu, Daejeon-city 305-701, Republic of Korea for good and valuable consideration, the sufficiency of which is hereby acknowledged, do hereby sell, assign transfer unto KOREA ADVANCED INSTITUTE OF and SCIENCE AND TECHNOLOGY., a corporation organized under the laws of the REPUBLIC OF KOREA, having its principal office at 373-1, Guseong-dong, Yuseong-ku, Taejeon-city 305-701, Republic of Krorea (hereinafter "ASSIGNEE,"), the entire right, title and interest, together with all rights of priority, in and to my invention for an METHOD OF FABRICATING **MULTILAYERED** UBM FOR FLIP CHIP

INTERCONNECTIONS BY ELECTROPLATING described and/or claimed in my application for Letters Patent of the United States of America, Serial No. (not yet assigned) filed (herewith) as well as all foreign counterparts thereof, including any

application filed in the **Patent Cooperation Treaty** (PCT) and any national stage filing resulting from any such PCT filing together with all Letters Patent issuing on the aforesaid application for Letters Patent, the same to be held and enjoyed by ASSIGNEE, its successors, assigns or other legal representatives, to the full ends of the terms of all said Letters Patent therefore which may be granted.

I HEREBY AUTHORIZE ASSIGNEE to make application for and to receive Letters Patent for said invention in any foreign countries in its own name, or in my name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further necessary assurance of title to said invention and any Letters Patent which may issue therefore and that I will, at any time, upon the request and at the expense of ASSIGNEE deliver any testimony in any legal proceedings and execute all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefore in ASSIGNEE, its successors, assigns, or other legal representatives, and that I will, at any time, upon the request and at the expense of the ASSIGNEE execute any continuations, divisions, reissues, or any other additional applications for Letters Patent for said invention or any part or parts thereof, all of which applications and any Letters Patent issuing thereof are hereby assigned to ASSIGNEE, and will make all rightful oaths, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

AND I HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid application to assignee.

WITNESS MY HAND and seal this	26	of _	August	_, 2002.
			Lynn	
_	SU HYE	EON	I KIŇ	

STATE OF Dacjeon - city COUNTY OF <u>Republics</u> of <u>Koven</u>

On this _____ day of ______, 2____ personally appeared before me SU HYEUN KIM to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public My commission expires:

WITNESS MY HAND and seal this	26	_of _	Augue	t, 2002.
	ki	'n	jong	yeon
_	JONG	YEC	ON KIM	
b C-L.				

STATE OF Duejeon - City COUNTY OF Republic of Korea

On this _____ day of ______, 2____ personally appeared before me JONG YEON KIM to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public My commission expires:

WITNE	ESS MY HAND and seal this	of <u>August</u> , 2002.	
	JIN Y	ſŬ	
TATEOE	Die - Coli		

STATE OF Due jean - Criy COUNTY OF Republic of Koren

On this ____ day of _____, 2___ personally appeared before me JIN YU to me known, and known by me to be the same person described in and who

PATENT REEL: 013559 FRAME: 0373 executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Notary Public My commission expires: