Form PTO-1595 (Rev. 02104) DM9 No. 0661-0027 (øxp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office	
RECORDATION FORM COVER SHEET PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office: Please		
1. Name of conveying party(les)/Execution Date(s):	2. Name and address of roceiving party(ics)	
SHINILL KANG (07/09/2010), JI SEOK LIM (07/09/2010), MIN SEOK CHOI (07/09/2010), AND HO KWAN KIM (07/09/2010)	INDUSTRY-ACADEMIC CO-OPERATION FOUNDATION, Name: YONSELUNIVERSITY	
Execution Date(s). In parentheses after inventor name Additional name(s) of conveying party(ins) attached? Yes x No 3. Nature of Conveyance: x Assignment Merger	Internal Address: Street Address: YONSELUNIVERSITY, 134 SINCHON-DONG, SEODAEMUN-GU	
Security Agreement Change of Name	City: SEOUL	
Government Interest Assignment	State:	
Executive Order 9424, Confirmatory License Other	Country: <u>REPUBLIC OF KOREA</u> zip: 120-749 Additional name(s) & address(es) Yes X No attached:	
A. Application or patent number(s): A. Patent Application No.(s) 12/812,357	This document is being filed together with a new application. B. Patent No.(s)	
Additional numbers attached	Yes XNo	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 1	
Name: Alexander D. Walter LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address: Ally, Dkt.: AKROS 3.3-004	Authorized to be charged by credit card	
Street Address: 600 South Avenue West	X Authorized to be charged to deposit account Enclosed Enclosed None required (government interest not affecting title)	
City: Westfield	8. Payment information	
State: NJ Zip: 07090	a. Gredit Card Last 4 Numbers	
Phone Number: (908) 654-5000	Expiration Date	
Fax Numbor: (908) 654-0415	b. Deposit Account Number 12-1095 Authorized User Name Alexander D. Walter	
Email Address:		
9. Signature: alace D. Witter	July 13, 2010	
Signature	Date	
Alexander D. Walter - 60,419 Name of Person Signing	Total number of pages including obver 5 sheet, attachments, and documents:	

• • • • • • • •

LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
Whereas, I, of	
102-1107, Daerim Apartment, Daebang-dong, Dongj	ak-ku, Seoul 156-020, Republic of Korea
bereafter referred to as assignor, have with others invented cort WAFER-SCALE ARRAY OF OPTICAL P FABRICATING TI-	ACKAGE AND METHOD FOR
For which an application for a United States Letters Pat Application Number 12/812,357	
for which an application for a United States Lotters Pate	
Y for which an International Application was filed on-	
PCT/KR2009/000153 , designating the United	f States.
And INDUSTRY-ACADEMIC CO-OPERAT Whereas. UNIVERSITY	ION FOUNDATION, YONSEI
a corporation of Korea Republic of herein referred to as "as	signce" whose mailing address is
Yonsei University, 134, Sinchon-dong, Seodaemun-g is desirous of acquiring the entire right, title and interest in the pa	
is acknowledged, and other good and valuable consideration, assignce my entire right, title and interest for the United Stat invention and the alcresoid utility patent application and all a applications and patents applied for or granted therefor in the said invention, including without limitation all spoketions and p the aforesaid utility application pursuant to any law or treaty, a iofringement with the right to cuo for and collect the same for it legal representatives, and including the right to claim such pri- trademarks is hereby authorized and requested to issue all p said assignee herein, as assignee of the online interest t representatives, heirs and assigns do hereby agree and covens all original, divisional, continuation, reissue and other applicat assignments thereof to said assignee or its assigns, to commu- known to the undersigned respecting said improvements, when legal proceedings in which any of said applications or patents m rightful oaths, and iso do generally everything necessary to all obtain patent protection for said improvements in all countries, and pard by soid assignee	es of America and all other countries in and to said original, divisional, continuation, substitute or reissue United States of America and all other countries, for batents for solid invention claiming priority or bonofit of nd including all claims for damages by reason of post a own use and the use of its successors, assigns and ority or benefit and the Commissioner of Patents and atorts on said improvements or resulting thereform to herein; and the undersigned for the and ray legal int without further remuneration, to execute and deliver long for Letters Patent on said improvements and all nicide to said assigned or its representatives all facts ever requested, to testify in any interferences or other all become involved, to sign all favitul papers, make all diassignee, its successors, assigns and nominees to the expenses incident to said applications to be borne
And I do hereby authorize my attorneys to insert on the doed th when known.	
July 9, 2010	Sharill Kang
Oate	Shinill KANG
Witness	
<u> </u>	
X Total of 4 forms are submitted.	
X Total of 4 forms are submitted.	

PATENT REEL: 024679 FRAME: 0994

.....

1.5

LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
Whereas, I,Ji Scok	LIM of
518-301, Yangji Maeul Hanyang Apt., Sunae-dong, B 463-922, Repbulic of Korea	undang-gu, Seongnam-si, Gyeonggi-do
hercofter referred to as assignor, have with others invented certa WAFER-SCALE ARRAY OF OPTICAL P. FABRICATING TH	ACKAGE AND METHOD FOR
for which an application for a United States Letters Pate Application Number 12/812,357	mt was filed on July 9, 2010
for which an application for a United States Letters Paten	t was executed by ms on
· · · · · · · · · · · · · · · · · · ·	January 10, 2009
PCT/KR2009/000153, designating the United	
And designating the United	States.
INDUSTRY-ACADEMIC CO-OPERATI Whereas. UNIVERSITY	ON FOUNDATION, YONSEI
a corporation of Korea, Republic of herein referred to as "as	signee" whose mailing address is
Yonsei University, 134, Sinchon-dong, Seodaemun-gr is desirous of acquising the entire right, title and interest in the sa	
Invention and the aforesaid utility patent application and all o applications and patents applied for or granted therefor in the said invention, including without limitation all applications and p- the aforesaid utility application pursuant to any law or treaty, an inforgement with the right to sue for and collect the same for its legal representatives, and including the right to claim such pro- trademarks is hereby authorized and requested to issue all pa- said assigned berein, as assigned of the entite interest the representatives, heirs and assigns do hereby agree and covenar all original, divisional, continuation, relissue and other application assignments thereof to said assignee or its assigns, to communi- known to the undersigned respecting said improvements, where legal proceedings in which any of said applications or patents ma- rightful patent protection for said improvements in all countries, the and paid by said assignee.	United States of America and all other countries, for atents for said Invention claiming priority or benefil of inducting all claims for damages by reason of past rown use and the use of its successors, assigns and rity or benefit and the Commissioner of Patents and tents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal of without further remuneration, to execute and deliver ons for Letters Patent on said improvements and all licate to said assignce or its representatives all facts aver requested, to testify in any interferences or other avely become involved, to sign all lawful papers, make all assignce, its successors, assigns and nominees to
And I do hereby authorize my attorneys to insert on this deed the when known.	filing date and application number of said application
July 9 2010	Jiseok Lim
Date	Ji Scok LJM
Kory	
Witness Bungwork Kim Typed Name of Witness	

PATENT REEL: 024679 FRAME: 0995

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
Whereas. t. Min Seek CHC 106-101. Begek Daewee Apt., 244-7. Bugek-de 609-320. Bepublic of Korea	of ng, Gumjeong-gu, Pusan
hereafter referred to as assignor, have with others invented certain new WAFER-SCALE ARRAY OF OPTICAL PACKA FABRICATING THE SA	AGE AND METHOD FOR
For which an application for a United States Letters Patent was Application Number 12/812,357	filed on July 9, 2010
for which an application for a United States Letters Patent was e	executed by me on
$\overline{\mathbf{X}}$ for which an international Application was filed on $January$	ary 10, 2009 . as
PCT/KR2009/000153 , designating the United States	5.
And INDUSTRY-ACADEMIC CO-OPERATION P Whereas, UNIVERSITY	OUNDATION, YONSEI
a corporation of <u>Korea, Republic of</u> herein referred to as "assigned"	" whose mailing address is
Yonsel University, 134, Sinchon-dong, Seodaemun-gu, Seot is dogroup of acquiring the entire right, title and interest in the same;	al 120-749, Republic of Korea
is acknowledged, and other good and valuable consideration, I as ass assignee my online right, tille and interest for the United States of A invention and the dicressid utility patent application and all original, applications and gatents applied for or granted therefor in the United said invention, including without limitation all applications and patents the aforesaid utility application oursuant to any law or treaty, and inclu- inforgement with the right to rare for and collect the same for its own u- logal representatives, and including the right to claim such priority or Trademarks is hereby authorized and requested to issue all patents of sold assigned herein, as assigned of the entire interest therein; representatives, heirs and assigned of hereby agree and covenant with all original, divisional, continuation, reissue and other applications for assignments thereof to said assigned or its assigns, to communicate t known to the undersigned respecting said improvements, wherever re- legal proceedings in which any of said applications or patents may been rightful oaths, and to de generally everything necessary to aid assign obtain patent protection for said improvements in all countries, the rxp and paid by said assignee.	anerica and all other countries in and to said divisional, continuation, substitute or ressue States of America and all other countries, for for said invention claiming priority or benefit of iding all claims for damages by reason of past use and the use of its successors, assigns and benefit and the Commissioner of Patents and an said improvements or resulting therefrom to and the undersigned for me and my legal out further remuneration, to execute and deliver Letters Patent on said improvements and all to testing the representatives all facts quested, to testify in any interferences or other me involved, to sign all lewful papers, make all tees, its successors, assigns and nominees to enses incident to said applications to be borne
Stuly 9, 2010 1	Minseek Choi
Vilnoss Vilnoss By Grage sek Typed Name of Wilness	Min Seok CHOI

PATENT REEL: 024679 FRAME: 0996

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
Vhereas, I,Ho Kwa	n KIMof
405. Oreamvil. 344~29, Yeonhui 3-dong. Seo Korea	daemun-gu, Seoul 120-830, Republic of
recenter referred to as assignor, have with others invented cer WAFER-SCALE ARRAY OF OPTICAL I FABRICATING TI	ACKAGE AND METHOD FOR
$\begin{bmatrix} X \\ Z \end{bmatrix}$ for which an application for a United States Letters Pa Application Number $= 12/812,357$	tent was filed on <u>July 9, 2010</u>
for which an application for a United States Letters Pate	
$\scriptstyle \scriptstyle $	January 10, 2009 as
PCT/KR2009/000153 designating the United	d States.
Md INDUSTRY-ACADEMIC CO-OPERAT Vhorman, UNIVERSITY	
corporation of <u>Korea, Republic of</u> herein referred to as "a <u>Yoasei University</u> , 134, Sinchon-dong, Seodaeman-g	
s destrous of acquiring the entire right, title and interest in the s	ome;
a acknowledged, and other good and valuable consideration, ssigned my entire right, title and interest for the United Stat wention and the atoresaid utility patent application and all pplications and patents applied for or granted therefor in the aid invention, including without limitation all applications and ju- aloresaid utility application pursuant to any low or treaty, a fingement with the right to sue for and collect the same for it again representatives, and including the right to claim such pri- rademarks is hereby authorized and requested to issue all p aid assignee herein, as assignee of the online interost the apresentatives, here and assignee of the online interost the apresentatives, here and assignee or its paging, to commu- nown to the undersigned respecting said improvements, when agai proceedings in which any of said applications or patents or ghtful oaths, and to do generally everything necessary to as brain patent protection for said improvements in all countries, nd paid by said assignee.	tes of America and all other countries in and to sali original, divisional, continuation, substitute or reissue. United States of America and all other countries, for balents for said invention claiming priority or benefit of nd including all claims for damages by reason of pas- its own use and the use of its successors, assigns and ority or benafit and the Commissioner of Patents and atents on said improvements or resoluting therefrom to herein; and the undersigned for me and my lega int without further remuneration, to execute and delive ions for Letters Patent on said improvements and al- micato to band assigned or its representatives all facts rever requested, to testify in any interferences or otho- ay become involved, to sign all lawful papers, make all diassignee, its successors, assigns and nominees to the expenses incident to said applications to be borne
nd I do hereby authorize my attorneys to insert on this deed th her known	
5% dg 3, ⊶0/0	Hokwan Kim
Date	Ho Kwan KIM

PATENT REEL: 024679 FRAME: 0997

RECORDED: 07/13/2010

.....