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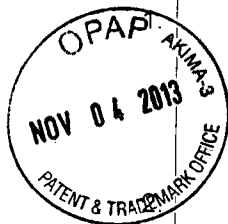


U.S. DEPARTMENT OF COMMERCE

103663531

To the Director of the U.S. Patent and Trademark Office

Document.



Name of conveying parties:

- 1.) Adeline BUDIMAN
- 2.) Jeong-Myeong HA
- 3.) Jae Wook CHOI
- 4.) Young Hyun YOON

- 5.) Sung Min KIM
- 6.) Gi Seok YANG
- 7.) Dong Jin SUH

Name and Address of receiving party:

KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY
5, Hwarangno 14-gil,
Seongbuk-gu, Seoul,
136-791, Republic of Korea

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution Date(s): 1.) October 15, 2013; 2, 3, 4, 6, 7.) October 21, 2013; 5.) October 14, 2013

4. Application number(s) or patent number(s):

☐ This document is being filed together with a new application.
OR

☒ This document is being filed after filing of the application:

- (a) Patent Application No(s). 14/068,635, filed October 31, 2013; or
(b) Patent No(s). , issued .

5. Name and address of party to whom correspondence concerning document should be mailed:

STAAS & HALSEY LLP Our Docket: 2341.1017
Attention: Sang Chul Kwon
1201 New York Ave., N.W., 7th Floor
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 credit card.
☐ Authorized to be charged to deposit account.

8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)

Sang Chul Kwon, Reg. No. 63,153
Name of Person Signing

Signature

Date

Total number of pages including cover sheet: 2

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Docket No.

U.S. ASSIGNMENT

5423 1100

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

KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY
5, Hwarangno 14-gil, Seongbuk-gu,
Seoul, 136-791, Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

Cu/Zn/Al CATALYST AND METHOD FOR PREPARING THE SAME

relating to International Patent Application PCT/KR____/____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____

(Insert date of execution of application, if not concurrent)

(b) filed on _____

Serial No.: _____

Any registered attorney or agent of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").




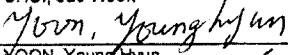
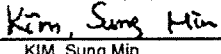

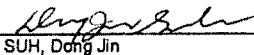
The ASSIGNOR agree(s); when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE; to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) 	10/15/2013	
Adeline Budiman		
2) 	10/21/2013	
HA, Jeong-Myeong		
3) 	10/21/2013	
CHOI, Jae Wook		
4) 	10/21/2013	
YOON, Young Hyun		
5) 	2013. 10. 14	
KIM, Sung Min		
6) 	10. 21. 2013	
YANG, Gi Seok		
7) 	10/21/2013	
SUH, Dong Jin		
8) _____		