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Jin Woo Jeong; Dae Jun Kim; Sang Kuk Choi; Dae Yong Kim; Ho Seob Kim

2. Name and address of receiving party(ies):
Name: **Electronics and Telecommunications Research Institute**

Additional name(s) of conveying party(ies) attached?
 No Yes

Internal Address:
Street Address: **161 Gajeong-dong, Yusong-gu**

3. Nature of Conveyance:
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 Other

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Execution Date: 9/16/05 9/20/05, 9/21/05

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4. Application number(s) or patent number(s): This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? No Yes

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

Name: **Blakely, Sokoloff, Taylor & Zafman LLP**

6. Total number of applications and patents involved: **1**

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7. Total Fee (37 CFR 3.41).....\$ **40.00**

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Docket No. 2013P312

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PATENT
REEL: 017153 FRAME: 0954

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**Industry-University Cooperation Foundation Sunmoon University
Kalsan-ri, Tangjeong-myeon, Asan-city
Chungcheongnam-do,
Republic of Korea**

ASSIGNMENT

In consideration of the receipt of good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- | | |
|---------------------------|------------|
| (1) <u>JEONG, Jin Woo</u> | (6) _____ |
| (2) <u>KIM, Dae Jun</u> | (7) _____ |
| (3) <u>CHOI, Sang Kuk</u> | (8) _____ |
| (4) <u>KIM, Dae Yong</u> | (9) _____ |
| (5) <u>KIM, Ho Seob</u> | (10) _____ |

who have made a certain new and useful invention, hereby sell, assign and transfer unto Electronics and Telecommunications Research Institute of 161 Gajeong-dong, Yusong-gu, Daejeon-city, Republic of Korea and Industry University Cooperation Foundation Sunmoon University of Kalsan-ri, Tangjeong-myeon, Asan-city, Chungcheongnam-do, Republic of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled **WAFER-SCALE MICROCOLUMN ARRAY USING LOW TEMPERATURE CO-FIRED CERAMIC SUBSTRATE**

- (a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____;
- or
- (b) for which an application for United States Letters Patent was executed on _____

and the undersigned hereby authorize and request the United States Commissioner of Patent and Trademarks to issue any and all United States Letters Patents which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED of the dates indicated aside our signatures:

<u>INVENTORS</u>	<u>DATE SIGNED</u>
1) <u>Jinwoo Jeong</u> Name: JEONG, Jin Woo	<u>9. 21. 2005</u>
2) <u>Dae Jun Kim</u> Name: KIM, Dae Jun	<u>9. 21. 2005</u>
3) <u>Sang Kuk Choi</u> Name: CHOI, Sang Kuk	<u>9. 20. 2005</u>

4) DaeYong Kim
Name: KIM, Dae Yong

21. Sep. 2005

5) Ho Seob Kim
Name: KIM, Ho Seob

September 16, 2005