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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Chang-Auck Choi; Won-Ick Jang; Chi-Hoon Jun; Yun-Tae Kim

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

3. Nature of Conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other

Street Address: 161, Kajong-Dong, Yusong-Gu City: Taejon State: Korea ZIP:

Execution Date: 03/17/01

Additional name(s) & address(es) attached? [X] No [] Yes

4. Application number(s) or patent number(s): 09834586

A. Patent Application No.(s) B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Blakely, Sokoloff, Taylor & Zafman

6. Total number of applications and patents involved: 1 7. Total Fee (37 CFR 3.41): \$ 40.00

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9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document. Eric S. Hyman, Reg. No. 30,139 Name of Person Signing Signature Date 4/11/01

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to: Assistant Commissioner of Patents, Box Assignments Washington, D.C. 20231

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) CHOI, CHANG-AUCK (5)
(2) JANG, WON-ICK (6)
(3) JUN, CHI-HOON (7)
(4) KIM, YUN-TAE (8)

who have made a certain new and useful invention, hereby sell, assign and transfer unto ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE a institute organized under the laws of the Republic of Korea, located at 161, KAJONG-DONG, YUSONG-GU, TAEJON, 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 THERMALLY DRIVEN MICRO-PUMP BURIED IN A SILICON SUBSTRATE AND METHOD FOR FABRICATING THE SAME:

- (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:

Table with 2 columns: INVENTORS and DATE SIGNED. Rows include names like CHOI, CHANG-AUCK and dates like 17 March 2001.