

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Byoung-Gon YU	01/04/2008
Byung-Do YANG	01/02/2008
Seung-Yun LEE	01/04/2008
Sung-Min YOON	01/04/2008
Young Sam PARK	01/04/2008
Nam Yeal LEE	01/04/2008

RECEIVING PARTY DATA

Name:	Electronics and Telecommunications Research Institute
Street Address:	161 Gajeong-dong, Yusong-gu
City:	Daejeon-city
State/Country:	REPUBLIC OF KOREA

Name:	Cungbuk National University Industry Academic Cooperation Foundation
Street Address:	410 Sungbong-Ro, Heungdeok-gu, Chungcheongbuk-do
City:	Cheongju-city
State/Country:	REPUBLIC OF KOREA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12040137

CORRESPONDENCE DATA

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NAME OF SUBMITTER: Jae Y. Park

Total Attachments: 2
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ASSIGNMENT

WHEREAS We, **YU, Byoung-Gon** of 306-404 Expo Apt., Jeonmin-dong, Yusong-gu, Daejeon-city, Republic of Korea; **YANG, Byung-Do** of 12 Gaesin-dong, Heungdeok-gu, Cheongju-city, Chungcheongbuk-do, Republic of Korea; **LEE, Seung-Yun** of 404-1005 Yeolmaemaetul Apt., Jjok-dong, Yusong-gu, Daejeon-city, Republic of Korea; **YOON, Sung-Min** of 706-902 Gubongmaeul Apt., Gwanjeo-dong, Seo-gu, Daejeon-city, Republic of Korea; **PARK, Young Sam** of 103-903 Mugunghwa Apt., Wolpyung2-dong, Seo-gu, Daejeon-city, Republic of Korea; **LEE, Nam Yeal** of 104-1602 Cheonggu Narae Apt., Jeonmin-dong, Yusong-gu, Daejeon-city, Republic of Korea

(hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

APPARATUS AND METHOD FOR WRITING DATA TO PHASE-CHANGE MEMORY BY USING POWER CALCULATION AND DATA INVERSION

which claims priority to **Korean** Application No. 10-2007-0021967, filed on 6/ March/2007, and for which We are about to file an application for Letters Patent of the United States;

AND WHEREAS, **Electronics and Telecommunications Research Institute**, (hereinafter referred to as "ASSIGNEE"), a Government Invested Research Institution organized and existing under the laws of the Country of **Rep. of Korea**, having a place of business at **161 Gajeong-dong, Yusong-gu, Daejeon-city, Rep. of Korea** and **Cungbuk National University Industry Academic Cooperation Foundation**, a Small Entity organized and existing under the laws of the Country of **Rep. of Korea**, having a place of business at **410 Sungbong-Ro, Heungdeok-gu, Cheongju-city, Chungcheongbuk-do, Rep. of Korea** are desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefore;

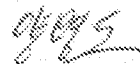
NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described


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in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

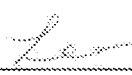
Date: Jan. 4, 2008  L.S.
[YU, Byoung-Gon]

Date: January 02, 2008  L.S.
[YANG, Byung-Do]

Date: Jan. 4, 2008  L.S.
[LEE, Seung-Yun]

Date: Jan. 4, 2008  L.S.
[YOON, Sung-Min]

Date: January 4, 2008  L.S.
[PARK, Young Sam]

Date: Jan. 04, 2008  L.S.
[LEE, Nam Yeal]