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To the Honorable Commissioner of Patents and Trad

document or copy thereof

1. Name(s) of conveying party(ies):

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leaving party:

- 1) MIN CHEOL SHIN
- 2) SEONG JAE LEE
- 3) KYOUNG WAN PARK
- 4)
- 5)
- 6)

Name: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

Internal Address: _____

Additional names of conveying parties attached? Yes No

Street Address: 161 KAJONG-DONG

YUSONG-GU

Postal Code & City: 305-350, TAEJON

Country REPUBLIC OF KOREA

Additional names & addresses attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Dates:

- 1) 25 JANUARY 2000 4) _____
- 2) 25 JANUARY 2000 5) _____
- 3) 25 JANUARY 2000 6) _____

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

If this document is being filed together with a new application,
the execution date of the application is FEBRUARY 1, 2000.

A. Patent Application No(s).

B. Patent No(s).

09/495740

Additional numbers attached? Yes No

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

Name: Seed Intellectual Property Law Group PLLC

Internal Address: E. RUSSELL TARLETON

Street Address: 701 Fifth Avenue, Suite 6300

City: Seattle State: WA ZIP: 98104-7092

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

7. Total Fee (37 CFR 3.41):\$40

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

19-1090

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

E. RUSSELL TARLETON

Name of Person Signing

E. Russell Tarleton

Signature

2/1/00

Date

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

ASSIGNMENT

WHEREAS, we, Min Cheol Shin, Seong Jae Lee, and Kyoung Wan Park (hereinafter referred to as ASSIGNORS), having post office addresses of Sambu APT 22-53, Taepyung 2-dong, Chung-gu, Taejon, Republic of Korea; Daerim APT 105-804, Sinsung-dong, Yusong-gu, Taejon, Republic of Korea; and Narae APT 107-902, Jeonmin-dong, Yusong-gu, Taejon, Republic of Korea, respectively, are the joint inventors of an invention entitled " SINGLE-ELECTRON MEMORY DEVICE USING THE ELECTRON-HOLE COULOMB BLOCKADE," as described and claimed in the specification forming part of an application for United States letters patent executed herewith claiming priority based on applications filed in Korea identified by Application No. 1999-54157, filed December 1, 1999;

WHEREAS, Electronics and Telecommunications Research Institute (hereinafter referred to as ASSIGNEE), a non-profit organization of Korea having a place of business at 161 Kajong-Dong, Yusong-Gu, Taejon, 305-350, Republic of Korea, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters

patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

25/01/2000
Date

Mincheol Shin
Min Cheol Shin

25/01/2000
Date

Seongjae Lee
Seong Jae Lee

25/01/2000
Date

Kyoungwan Park
Kyoung Wan Park