

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
Hyung-Jun Kim	11/04/2008
Hyun Cheol Koo	11/04/2008
Joon Yeon Chang	11/04/2008
Suk Hee Han	11/04/2008
Kyung Ho Kim	11/04/2008

## RECEIVING PARTY DATA

Name:	Korea Institute of Science and Technology
Street Address:	39-1 Hawolgok-dong
Internal Address:	Seongbuk-gu
City:	Seoul
State/Country:	REPUBLIC OF KOREA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12342426

## CORRESPONDENCE DATA

Fax Number: (216)621-6165

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 216-621-1113

Email: KNicholson@RennerOtto.com

Correspondent Name: Don W. Bulson

Address Line 1: 1621 Euclid Avenue

Address Line 2: 19th Floor

Address Line 4: Cleveland, OHIO 44115

NAME OF SUBMITTER:

Don W. Bulson

Total Attachments: 2

PATENT

500739376

REEL: 022022 FRAME: 0012

OP \$40.00 12342426

source=P0179US-execassn#page1.tif  
source=P0179US-execassn#page2.tif

## ASSIGNMENT OF APPLICATION FOR PATENT

### WHEREAS:

**KIM, Hyung Jun**  
102-1003 Dongbu Centreville, Dongbuechon-dong, Yongsan-gu, Seoul,  
Republic of Korea;

**KOO, Hyun Cheol**  
111-1203 Dong-a Echoville Apt., Sangwolgok-dong, Seongbuk-gu, Seoul,  
Republic of Korea;

**CHANG, Joon Yeon**  
109-1003 Doosan We've Apt., 222 Hawolgok 3-dong, Seongbuk-gu, Seoul,  
Republic of Korea;

**HAN, Suk Hee**  
103-1305 Daelim Byeoksan Apt., 363 Junggye-dong, Nowon-gu, Seoul,  
Republic of Korea;

and

**KIM, Kyung Ho**  
410-1802 Daelim Apt., Gileum 2-dong, Seongbuk-gu, Seoul, Republic of Korea

(hereinafter referred to as **ASSIGNORS**), have invented a certain invention  
entitled: **SPIN TRANSISTOR USING DOUBLE CARRIER SUPPLY LAYER  
STRUCTURE**

for which application for Letters Patent of the United States has been executed  
even date herewith

### WHEREAS:

**KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY**  
39-1 Hawolgok-dong, Seongbuk-gu, Seoul, Republic of Korea

(hereinafter referred to as **ASSIGNEE**), is desirous of acquiring the entire  
interest in, to and under said invention and the United States Letters Patent to  
be obtained therefor.

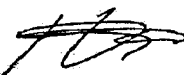
Now, **THEREFORE**, TO ALL WHOM IT MAY CONCERN: Be it known that for  
One Dollar(\$1.00) and other good and valuable consideration, receipt of which  
is hereby acknowledged, **ASSIGNORS** hereby sell, assign and transfer to  
**ASSIGNEE**, its successors and assigns, the entire right, title and interest to said  
invention so far as concerns the United States and the Territories and

Possessions thereof, said application and all Letters Patent of the United States to be obtained on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.


ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Date 11/4/2008

  
KIM, Hyung Jun

Date 11/4/2008

  
KOO, Hyun Cheol


Date 11/4/2008

  
CHANG, Joon Yeon

Date 11/10/2008

  
HAN, Suk Hee

Date 11/4/2008

  
KIM, Kyung Ho