## 503653330 01/18/2016

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BRUCE W. WESSELS	08/05/2013
JOSEPH S. FRIEDMAN	07/31/2013
GOKHAM MEMIK	08/27/2013

## **RECEIVING PARTY DATA**

Name:	NORTHWESTERN UNIVERSITY	
Street Address:	633 CLARK STREET	
City:	EVANSTON	
State/Country:	ILLINOIS	
Postal Code:	60208	

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14997887

## **CORRESPONDENCE DATA**

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 773-570-3330

**Email:** docketing@kandrip.com

Correspondent Name: KLINTWORTH & ROZENBLAT IP LLC AND NORTHW

Address Line 1: 850 W. JACKSON BLVD

Address Line 2: SUITE 525

Address Line 4: CHICAGO, ILLINOIS 60607

ATTORNEY DOCKET NUMBER:	NWN01-017-US-DIV
NAME OF SUBMITTER:	VINCENT J. GNOFFO
SIGNATURE:	/Vincent J. Gnoffo/
DATE SIGNED:	01/18/2016

#### **Total Attachments: 3**

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PATENT 503653330 REEL: 037511 FRAME: 0778

#### **ASSIGNMENT**

WHEREAS, WE, Bruce W. Wessels, Joseph S. Friedman, and Gokhan Memik (hereinafter collectively referred to as ("ASSIGNORS") have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of U.S. Provisional Patent Application: EMITTER-COUPLED SPIN-TRANSISTOR LOGIC

Serial No. 61/699,124 Filed: September 10, 2012

Title of U.S. Formal Patent Application: EMITTER-COUPLED SPIN-TRANSISTOR LOGIC

Serial Number: 13/931,552 Filed: June 28, 2013

WHEREAS, Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNORS further agree that ASSIGNORS will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.

| March | March

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PATENT REEL: 037511 FRAME: 0779

# Assignment for Execution

Title of U.S. Provisional Patent Application: EMITTER-COUPLED SPIN-TRANSISTOR LOGIC

Serial No. 61/699,124

Filed: September 10, 2012

Title of U.S. Formal Patent Application: EMITTER-COUPLED SPIN-TRANSISTOR LOGIC

Serial Number: 13/931,552

Filed: June 28, 2013

State of Iltro: S

County of Cook

On this 31 day of 54%, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

[NOTARY SEAL]

My Commission Expires: 10/32/16

## Assignment for Execution'

Title of U.S. Provisional Patent Application: EMITTER-COUPLED SPIN-TRANSISTOR LOGIC

Serial No. 61/699,124

Filed: September 10, 2012

Title of U.S. Formal Patent Application: EMITTER-COUPLED SPIN-TRANSISTOR LOGIC

Serial Number: 13/931,552

Filed:

June 28, 2013

State of \_\_\_\_\_\_\_

County of (\*()

\_day of \_\_^Ua US+ On this  $\mathbb{Z}^7$ , 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and

purposes therein expressed.

[NOTARY SEAL]

My Commission Expires:

OFFICIAL SEAL ANA MARIA ANDRAS NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES: 10/23/15

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**RECORDED: 01/18/2016**