

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| DEEPAK K. SINGH | 08/22/2007 |
| SCOTT MICHAEL MCCLOSKEY | 08/22/2007 |
| RECEIVING PARTY DATA | |
| Name: | INTERNATIONAL BUSINESS MACHINES CORPORATION |
| Street Address: | NEW ORCHARD ROAD |
| City: | ARMONK |
| State/Country: | NEW YORK |
| Postal Code: | 10504 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 11844402 |
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| Total Attachments: 1 source=assignment#page1.tif | |

CH \$40.00 11844402

ASSIGNMENT

Docket No. RPS9 2007 0137 US1

INVENTOR
AND CITY

Whereas, we

(1) **DEEPAK K. SINGH**
County of **WAKE**
and (2) **SCOTT MICHAEL MCCLOSKEY**
County of **WAKE**

of APEX,
and State of NORTH CAROLINA,
of APEX,
and State of NORTH CAROLINA,

have invented certain improvements in

TITLE

Half Width Counting Leading Zero Circuit

DATES THAT
INVENTORS
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefor on

(1) August 22, 2007, (2) Aug. 22, 2007.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed and sealed

Deepak K. Singh
DEEPAK K. SINGH

on August 22, 2007

Scott Michael McCloskey
SCOTT MICHAEL MCCLOSKEY

on Aug. 22, 2007

PATENT