Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| Giovanni Fiorenza | 11/28/2006 |
| Conal E. Murray | 11/28/2006 |
| Kenneth P. Rodbell | 11/29/2006 |
| Henry Tang | 11/29/2006 |

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: | 11618993 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | YOR920060549US1 |
|-------------------------|-----------------------------------|
| NAME OF SUBMITTER: | Jack P. Friedman, Reg. No. 44,688 |

Total Attachments: 2

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REEL: 018702 FRAME: 0633

PATENT

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PATENT REEL: 018702 FRAME: 0634

Assignment

Whereas, we

INVENTOR AND CITY

(1) Giovanni Fiorenza and State of New York

of Pomona

(2) Conal E. Murray and State of New York

of Yorktown Heights

(3) Kenneth P. Rodbell and State of New York

of Sandy Hook

(4) Henry Tang and State of New York

of Poughkeepsie

have invented certain improvements in

TITLE

METHOD OF DETERMINIG STOPPING POWERS OF DESIGN STRUCTURES WITH RESPECT TO A TRAVELING PARTICLE

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

DATES THAT (1) // 28 / 2006; (2) November 28, 2006; INVENTORS (3) // 29 / 2006; and (4) 29 Nov 2006. SIGNED THE DECLARATION

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 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 applications 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.

PATENT REEL: 018702 FRAME: 0635 Signed and sealed

CITY AND DATE

(1) at YOUKTOWN H75 on 11/28/

2006,

MIDDLE

FIRST NAME

LAST NAME

CITY AND DATE

`- I

4

YORKTOWN HOTGHTS, NY (2) at 11/28/ 2006, on

E. (Conal

SIGNATURE

FIRST NAME

MIDDLE

LAST NAME

) INVENTOR

CITY AND DATE

(3) at Yorkrown Heights, 114 on 11/29/ 2006,

(Kenneth

SIGNATURE

FIRST NAME

MIDDLE

Rodbell LAST NAME) INVENTOR

CITY AND DATE

(Henry

FIRST NAME

MIDDLE

Ťang

LAST NAME

SIGNATURE

) INVENTOR

PATENT

REEL: 018702 FRAME: 0636