Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: **NEW ASSIGNMENT** NATURE OF CONVEYANCE: **ASSIGNMENT**

CONVEYING PARTY DATA

Name	Execution Date
Kevin J Bowers	12/03/2007

RECEIVING PARTY DATA

Name:	D.E. Shaw Research, LLC
Street Address:	120 West Forty-Fifth Street
City:	New York
State/Country:	NEW YORK
Postal Code:	10036

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11865298

CORRESPONDENCE DATA

Fax Number: (617)500-2499

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

Email: zaleski@ortpatent.com

Ewan Zaleski Correspondent Name: Address Line 1: 10 Fawcett Street

Address Line 4: Cambridge, MASSACHUSETTS 02138

ATTORNEY DOCKET NUMBER: 30023-008001

NAME OF SUBMITTER: Ewan Zaleski

Total Attachments: 1

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REEL: 020276 FRAME: 0643

PATENT

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ASSIGNMENT

For valuable consideration, I, Kevin J. Bowers of Bridgewater, NJ, hereby assign to D. E. Shaw Research, LLC, a Delaware limited liability company having a place of business at 39th Floor, Tower 45, 120 West Forty-Fifth Street, New York, NY 10036, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled Numerical Techniques For Dynamics Simulation, filed 10/1/2007, and assigned U.S. Serial Number 11/865,298; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: DECEMBER 3, 2007 Kevin J. Bowers
STATE OF New York
STATE OF NOW YORK) SS. COUNTY OF NOW YORK)
On, before me, the undersigned, a notary public for the State of, there personally appeared Kevin J. Bowers personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.

HOWARD POLONETSKY
NOTARY PUBLIC, STATE OF NEW YORK
NO. 01P06070497
QUALIFIED IN NEW YORK COUNTY
MY COMMISSION EXPIRES MARCH 4, 2010

RECORDED: 12/20/2007

Notary Public

PATENT REEL: 020276 FRAME: 0644