

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Kevin J. Bowers	05/27/2005
RECEIVING PARTY DATA	
Name:	D. E. Shaw Research, LLC
Street Address:	120 West Forty-Fifth Street
Internal Address:	39th Floor, Tower 45
City:	New York
State/Country:	NEW YORK
Postal Code:	10036
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12775847
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	30023-011002
NAME OF SUBMITTER:	Cassie A. Chandler
Total Attachments: 2 source=30023-011 ASS#page1.tif source=30023-011 ASS#page2.tif	

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 REEL: 024354 FRAME: 0251


ASSIGNMENT

For valuable consideration, we, **Kevin J. Bowers** of 3 Freeman Lane, Bridgewater, NJ 08807, hereby assign to **D. E. Shaw Research, LLC**, a Delaware limited liability company, having a place of business at 120 West Forty-Fifth Street, 39th Floor, Tower 45, New York, New York, 10036, and its successors and assigns (collectively hereinafter called "the Assignee"), effective as of August 16, 2007, the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled **COMPUTATION OF MULTIPLE BODY INTERACTIONS**, filed March 21, 2008, and assigned U.S. Serial Number 12/053,170, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, **U.S. Provisional 60/896,675, U.S. Provisional 60/909,037, International Serial Number PCT/US08/57853**, and 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: 5/27/2008
Kevin J. BowersSTATE OF New York)
COUNTY OF New York) SS.

On May 27, 2008, before me, the undersigned, a notary public for the State of New York, 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.


Notary Public

NATHAN L. THOMPSON
NOTARY PUBLIC, State of New York
No. 01111008214
Qualified in Westchester County
Commission Filed in New York County
Commission Expires June 2, 2011