

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yibing Shan</td> <td>01/23/2008</td> </tr> <tr> <td>Michael Eastwood</td> <td>01/23/2008</td> </tr> <tr> <td>Ron Dror</td> <td>01/23/2008</td> </tr> <tr> <td>John Klepeis</td> <td>01/23/2008</td> </tr> </tbody> </table>		Name	Execution Date	Yibing Shan	01/23/2008	Michael Eastwood	01/23/2008	Ron Dror	01/23/2008	John Klepeis	01/23/2008
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RECEIVING PARTY DATA											
Name:	D. E. Shaw Research, LLC										
Street Address:	39th Floor, Tower 45										
Internal Address:	120 West Forty-Fifth Street										
City:	New York										
State/Country:	NEW YORK										
Postal Code:	10036										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11171634</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11171634						
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CORRESPONDENCE DATA											
Fax Number:	(617)500-2499										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	6175002500										
Email:	chandler@ortpatent.com										
Correspondent Name:	J. Robin Rohlicek										
Address Line 1:	10 Fawcett Street										
Address Line 2:	Occhiuti Rohlicek & Tsao LLP										
Address Line 4:	Cambridge, MASSACHUSETTS 02138										
ATTORNEY DOCKET NUMBER:	30023-003001										
NAME OF SUBMITTER:	Cassie A. Chandler										

CH \$40.00 11171634

Total Attachments: 3

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ASSIGNMENT

For valuable consideration, we, **Yibing Shan** of 30 Greenwood Drive, Milburn, NJ 07041, **Michael Eastwood** of 420 E. 70th Street #6L, New York, NY 10021, **Ron Dror** of 315 W. 70th Street, Apt. 9G, New York, NY 1002, **John Klepeis** of 333 Route 37, New Fairfield CT, 06812, as joint inventors with **David E. Shaw** of, 39th Floor, Tower 45, 120 West Forty-Fifth Street, New York, NY 10036, 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 USA, and its successors and assigns (collectively hereinafter called "the Assignee"), effective as of June 30, 2005, our 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 **MULTIPLE BODY SIMULATION**, filed June 30, 2005, and assigned U.S. Serial Number 11/171,634, and Patent Cooperation Treaty Application entitled **MULTIPLE BODY SIMULATION**, filed June 30, 2005, and assigned PCT Application No. PCT/US2005/023184, 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, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, including European Application entitled **MULTIPLE BODY SIMULATION**, filed June 30, 2005, and assigned Serial No. 05764524.4; European Application entitled **MULTIPLE BODY SIMULATION**, filed June 30, 2005, and assigned Serial No. 07000578.0; Japanese Application entitled **MULTIPLE BODY SIMULATION**, filed June 30, 2005, and assigned Serial No. 2007-520370 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.

RECEIVED

BY:.....

1/23

CAC

