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HEET

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1. Name of conveying party(ies):

KARNIADAKIS, George Em
DU, Yiqing

Additional name(s) of conveying party(ies) attached? () Yes (X) No

2. Name and address of receiving party(ies)

Name: Brown University Research Foundation

Internal Address: _____

Street Address: 42 Charles Field StreetBox 1949City: Providence State: RI Zip: 02902

Additional name(s) & address(es) attached? () Yes (X) No

3. Nature of conveyance:

(X) Assignment

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Execution Date: 7/9/00 and 7/12/00

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s): 09/505,270

B. Patent No.(s) _____

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent GroupInternal Address: Foley, Hoag & Eliot LLPStreet Address: One Post Office SquareCity: Boston State: MA ZIP: 02109-2170

6. Total number of applications and patents involved: (1)

7. Total fee (37 CFR 3.41).....\$ 40.00

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() Authorized to be charged to deposit account

8. Deposit account number:

06-1448

(Attached duplicate copy of this page if paying by deposit account)

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*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Wolfgang Stutius Reg. No. 40,256

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PATENT
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ASSIGNMENT

I, George Em Karniadakis of Newton, MA, along with my co-inventor Yiqing Du, in consideration of One Dollar and other valuable consideration paid to us by Brown University Research Foundation, a corporation of the state of Massachusetts, having its principal place of business at 42 Charles Field Street, Box 1949, Providence, RI 02902, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

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its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

METHODS AND APPARATUS FOR REDUCING TURBULENT DRAG

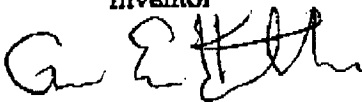
described in application Serial No. 09/505,270 filed on February 16, 2000 in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for yourselves and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

Inventor

Date Signed

Witnesses



07/09/00



George Em Karniadakis

ASSIGNMENT

I, Yiqing Du of Bellevue, WA, along with my co-inventor George Em Karniadakis in consideration of One Dollar and other valuable consideration paid to us by Brown University Research Foundation, having its principal place of business at 42 Charles Field Street, Box 1949, Providence, RI 02902, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

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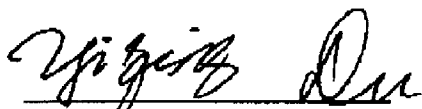
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And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.


Inventor

Date Signed

Witnesses


Yiqing Du

07/12/2000


QINGBO ZHAO