

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>James V. Leggett III</td><td>11/24/2003</td></tr><tr><td>Vladimir Dubinsky</td><td>11/24/2003</td></tr></tbody></table>	Name	Execution Date	James V. Leggett III	11/24/2003	Vladimir Dubinsky	11/24/2003	
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James V. Leggett III	11/24/2003						
Vladimir Dubinsky	11/24/2003						
RECEIVING PARTY DATA							
Name:	Baker Hughes Incorporated						
Street Address:	2929 Allen Parkway, Suite 2100						
City:	Houston						
State/Country:	TEXAS						
Postal Code:	77019-2118						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11865590</td></tr></tbody></table>	Property Type	Number	Application Number:	11865590			
Property Type	Number						
Application Number:	11865590						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	424-30462-USD						
NAME OF SUBMITTER:	Kaushik P. Sriram						
Total Attachments: 2 source=SignedAssignment_D_filed#page1.tif source=SignedAssignment_D_filed#page2.tif							

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PATENT
REEL: 020165 FRAME: 0871

ASSIGNMENT

IN CONSIDERATION OF ONE (1) DOLLAR AND OTHER GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do/does hereby:

SELL, ASSIGN AND TRANSFER to **BAKER HUGHES INCORPORATED**, having a place of business at **3900 ESSEX LANE, SUITE 1200, HOUSTON, TEXAS 77027**, the entire right, title and interest for the United States and all foreign countries in and to any and all inventions and improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned and is entitled **"METHODS OF GENERATING DIRECTIONAL LOW FREQUENCY ACOUSTIC SIGNALS AND REFLECTED SIGNAL DETECTION ENHANCEMENTS FOR SEISMIC WHILE DRILLING APPLICATIONS"** (further identified as Serial No. 10/640,240; filed August 13, 2003) such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such inventions or improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND HEREBY REQUEST the issuing authorities to issue any and all United States and foreign patents granted on such inventions or improvements to **BAKER HUGHES INCORPORATED**;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purposes of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

IN WITNESS WHEREOF, the undersigned have hereunto subscribed their names on the date set opposite their signatures.

(Signature) James V. Leggett III
Name: James V. Leggett III

Date 11/24/03

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BEFORE ME, the undersigned authority, on this 24 day of Nov, 2003 personally appeared **James V. Leggett III** the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



[Signature]
Notary Public/Witness

(Signature) [Signature]
Name: Vladimir Dubinsky

Date 11/24/2003

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BEFORE ME, the undersigned authority, on this 24 day of NOV, 2003 personally appeared **Vladimir Dubinsky** the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



[Signature]
Notary Public/Witness