

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DUKE LOI	07/25/2011
TIM MUELLER	07/22/2011
KATHLEEN HANAFAN	07/23/2011
RECEIVING PARTY DATA	
Name:	HM ENERGY, LLC
Street Address:	4771 Sweetwater Blvd., Suite 243
City:	Sugar Land
State/Country:	TEXAS
Postal Code:	77479
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13188767
CORRESPONDENCE DATA	
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Phone:	9724790462
Email:	PATENTS@DALPAT.COM
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	STEVEN R. GREENFIELD
Address Line 1:	P.O. BOX 741715
Address Line 4:	DALLAS, TEXAS 75374-1715
ATTORNEY DOCKET NUMBER:	HMET-30,880
NAME OF SUBMITTER:	Steven R. Greenfield
Total Attachments: 4 source=HME30880 ASSMT EXE#page1.tif source=HME30880 ASSMT EXE#page2.tif source=HME30880 ASSMT EXE#page3.tif source=HME30880 ASSMT EXE#page4.tif	

CH \$40.00 13188767

ASSIGNMENT

Whereas, **Duke LOI**, an individual, with an address of 4585 Limerick Lane, Frisco, Texas 75034, **Tim MUELLER**, an individual, with an address of 6812 Dalmation Circle, Plano, Texas 75023, and **Kathleen HANAFAN**, an individual, with an address of 8 Cypress Ridge Lane, Sugar Land, Texas 77479, (“Applicants”), have invented certain new and useful improvements in a SURFACE ACOUSTIC WAVE RESONATOR FOR DOWN-HOLE APPLICATIONS (the “Invention”), for which United States Patent Application was filed on July 22, 2011 (Serial No. 13/188,767) (the “Application”); and

Whereas, **HM Energy, LLC**, a Delaware limited liability company, located at 4771 Sweetwater Blvd., Suite 243, Sugar Land, Texas 77479 (“Assignee”), is desirous of acquiring the entire right, title, and interest in the Application.

Now, therefore, for other good and valuable consideration, Applicants, by these presents do hereby sell, assign, and transfer unto Assignee, its successors, assigns, and legal representatives the full and exclusive right to the Application in the United States and the entire right, title, and interest in and to any and all Patents which may be granted therefor and/or therefrom in the United States, to all divisions, reissues, substitutions, continuations, continuations-in-part, and extensions of said application. Applicants hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for the Invention, or patents resulting therefrom, insofar as Applicants’ interests are concerned, to Assignee, of the entire right, title, and interest in and to the same, for its sole use and benefit; and for the use and benefit of its legal representatives, to the full end of the term for which said Patent(s) may be granted, as fully and entirely as the same would have been held by the Applicants had this assignment not been made.

Applicants also sell and assigns to Assignee, its successors, assigns and legal representatives the full and exclusive right, title, and interest to the Invention disclosed in said Application throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for the Invention in the Assignee’s own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of the Invention and all rights to register the Invention in appropriate registries, all foreign rights arising from pre-grant publication of the Application; and Applicants further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee, its successors, assigns and legal representatives.

Applicants further agree to communicate to Assignee, its successors, assigns and/or legal representatives, any known facts respecting any improvements, and, at the expense of Assignee, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in Assignee and to aid Assignee, its successors, assigns and legal representatives to obtain and enforce proper protection for the Invention in all countries.

Applicants further authorize and direct Assignee’s attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

Name of First Joint Inventor: **Duke LOI**

Residence (City, State): **Frisco, Texas**

Signature: _____

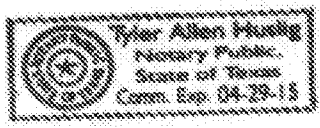
Date: 7/25/2011

STATE OF Texas §

COUNTY OF Collin §

BEFORE ME, a Notary Public, on this 25 day of July, 2011, personally appeared **Duke LOI**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed same of his own free will for the purposes and consideration therein expressed.

[SEAL]



[Signature]
Notary Public
Commission Expires: 4-29-15

Name of Second Joint Inventor: **Tim MUELLER**

Residence (City, State): **Plano, Texas**

Signature: *Tim Mueller*

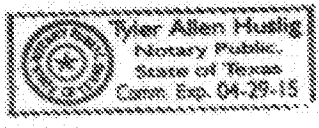
Date: 7-22-2011

STATE OF Texas §
COUNTY OF Collin §

BEFORE ME, a Notary Public, on this 22 day of July, 2011, personally appeared **Tim MUELLER**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed same of his own free will for the purposes and consideration therein expressed.

[SEAL]

T.A. Hustig
Notary Public
Commission Expires: 7-24-15



Name of Third Joint Inventor: **Kathleen HANAFAN**

Residence (City, State): Sugar Land, Texas

Signature: *Kathleen Hanafan*

Date: 7/23/11

STATE OF Texas §

COUNTY OF Fort Bend §

BEFORE ME, a Notary Public, on this 23 day of July, 2011, personally appeared **Kathleen HANAFAN**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed same of his own free will for the purposes and consideration therein expressed.

[SEAL]

Sergio Martinez
Notary Public

Commission Expires: 02/03/15

