

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>PAUL T. HIGGINS</td> <td>07/29/2013</td> </tr> <tr> <td>RUSSELL J. STEEL</td> <td>08/05/2013</td> </tr> <tr> <td>SCOTT M. PACKER</td> <td>08/08/2013</td> </tr> <tr> <td>JEREMY PETERSON</td> <td>07/29/2013</td> </tr> <tr> <td>STEVE W. LARSEN</td> <td>08/22/2013</td> </tr> <tr> <td>JONATHAN A. BABB</td> <td>08/22/2013</td> </tr> <tr> <td>DAVID ROSAL</td> <td>08/08/2013</td> </tr> <tr> <td>SAMUEL C. SANDERSON</td> <td>08/02/2013</td> </tr> </tbody> </table>		Name	Execution Date	PAUL T. HIGGINS	07/29/2013	RUSSELL J. STEEL	08/05/2013	SCOTT M. PACKER	08/08/2013	JEREMY PETERSON	07/29/2013	STEVE W. LARSEN	08/22/2013	JONATHAN A. BABB	08/22/2013	DAVID ROSAL	08/08/2013	SAMUEL C. SANDERSON	08/02/2013
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DAVID ROSAL	08/08/2013																		
SAMUEL C. SANDERSON	08/02/2013																		
RECEIVING PARTY DATA																			
Name:	MEGASTIR TECHNOLOGIES LLC																		
Street Address:	275 WEST 2230 NORTH																		
City:	PROVO																		
State/Country:	UTAH																		
Postal Code:	84604																		
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>13623710</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13623710														
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CORRESPONDENCE DATA																			
Fax Number:	(713)689-2219																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
Phone:	7136892273																		
Email:	qmarques@slb.com																		
Correspondent Name:	MEGASTIR TECHNOLOGIES LLC																		
Address Line 1:	10001 RICHMOND AVENUE																		
Address Line 4:	HOUSTON, TEXAS 77073																		
ATTORNEY DOCKET NUMBER:	11-FSW179-US-NP																		

PATENT

NAME OF SUBMITTER:	QUERLYN MARQUES
Signature:	/Querlyn MARQUES/
Date:	10/06/2013
Total Attachments: 9 source=11FSW179USNP_20131006_Assignment#page1.tif source=11FSW179USNP_20131006_Assignment#page2.tif source=11FSW179USNP_20131006_Assignment#page3.tif source=11FSW179USNP_20131006_Assignment#page4.tif source=11FSW179USNP_20131006_Assignment#page5.tif source=11FSW179USNP_20131006_Assignment#page6.tif source=11FSW179USNP_20131006_Assignment#page7.tif source=11FSW179USNP_20131006_Assignment#page8.tif source=11FSW179USNP_20131006_Assignment#page9.tif	

ASSIGNMENT – WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer and set over to:

MegaStir Technologies LLC

Having the following address:

**275 West 2230 North
Provo, Utah 84604**

(Referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

Material Surface Modification Using Friction Stir Welding Hybrid Process

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, re-examinations, and extensions thereof, and all United States Letters Patent and any legal equivalent thereof in a foreign country, including the right to claim priority, which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States Patent and any legal equivalent thereof in a foreign country, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY;

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, reissue or re-examination thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to COMPANY the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

7/29/13

Date

Inventor Signature:

Print or Type Name:

Paul T. Higgins

Notary Public

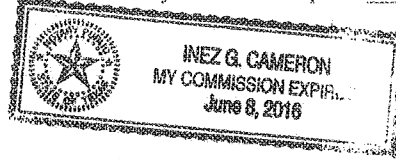
State of: Texas

County of: Harris

Before me personally appeared Paul T. Higgins, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 7/29/13

Inez G. Cameron
Notary Public My Commission expires:



When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

8-5-2013
Date

Inventor Signature: [Signature]
Print or Type Name: Russell J. Steel

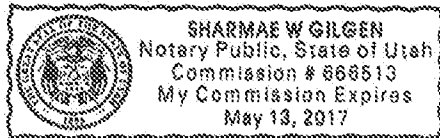
Notary Public

State of: Utah
County of: Utah

Before me personally appeared **Russell J. Steel**, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 8/5/2013

[Signature]
Notary Public My Commission expires: May 13, 2017




When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

8/8/13
Date

Inventor Signature:



Print or Type Name:

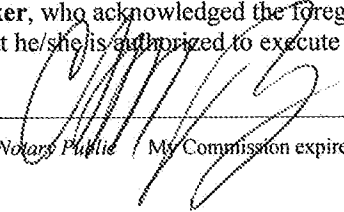
Scott M. Packer

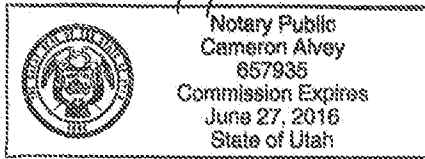
Notary Public

State of: Utah
County of: DAVIS

Before me personally appeared **Scott M. Packer**, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 8/8/2013


Notary Public My Commission expires: 6/27/2016



When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

7.29.13
Date

Inventor Signature:

Print or Type Name:

Jeremy Peterson

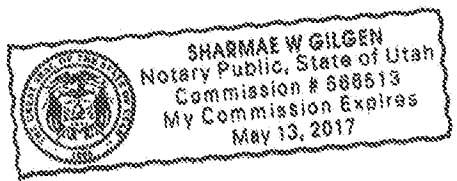
Notary Public

State of: Utah
County of: Utah

Before me personally appeared **Jeremy Peterson**, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: July 29, 2013

Sharmae W Gilgen
Notary Public My Commission expires: May 13, 2017




When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

8-22-2013
Date

Inventor Signature: 
Print or Type Name: Steve W. Larsen

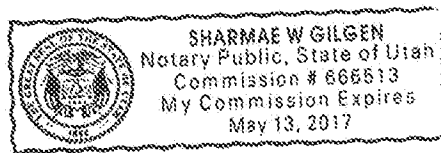
Notary Public

State of: Utah
County of: Utah

Before me personally appeared **Steve W. Larsen**, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: Aug 22, 2013


Notary Public My Commission expires: May 13, 2017



When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

8/23/13
Date

Inventor Signature:

[Signature]

Print or Type Name:

Jonathan A. Babb

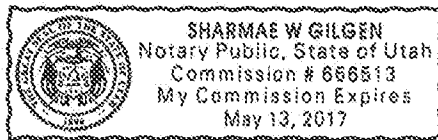
Notary Public

State of: Utah
County of: Utah

Before me personally appeared **Jonathan A. Babb**, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: August 22, 2013

Sharmae W. Gilgen
Notary Public My Commission expires: May 13, 2017



When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

8-8-13
Date

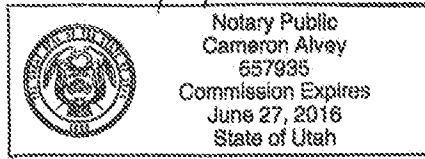
Inventor Signature: [Signature]
Print or Type Name: David Rosal

Notary Public

State of: Utah
County of: Davis

Before me personally appeared **David Rosal**, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 8/2/2013



[Signature]
Notary Public My Commission expires: 6/27/2016

When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

02 Aug 2013
Date

Inventor Signature: Samuel C Sanderson
Print or Type Name: Samuel C. Sanderson

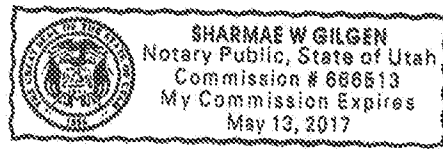
Notary Public

State of: Utah
County of: Utah

Before me personally appeared **Samuel C. Sanderson**, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: Aug 2, 2013

Sharmae W Gilgen
Notary Public My Commission expires: May 13, 2017



When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:

U.S. Application Serial No.: 13/623710
Filing Date: September 20, 2012