

## 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>Roger I Schultz</td> <td>08/02/2011</td> </tr> <tr> <td>Michael I Connell</td> <td>08/02/2011</td> </tr> <tr> <td>Andrew M. Ferguson</td> <td>08/02/2011</td> </tr> </tbody> </table>		Name	Execution Date	Roger I Schultz	08/02/2011	Michael I Connell	08/02/2011	Andrew M. Ferguson	08/02/2011										
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<table border="1"> <tr> <td>Name:</td> <td>Thru Tubing Solutions, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>11515 S. Portland</td> </tr> <tr> <td>City:</td> <td>OKLAHOMA CITY</td> </tr> <tr> <td>State/Country:</td> <td>OKLAHOMA</td> </tr> <tr> <td>Postal Code:</td> <td>73170</td> </tr> </table>		Name:	Thru Tubing Solutions, Inc.	Street Address:	11515 S. Portland	City:	OKLAHOMA CITY	State/Country:	OKLAHOMA	Postal Code:	73170								
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PROPERTY NUMBERS Total: 8																			
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Application Number:	13430441																		
Application Number:	13434461																		
CORRESPONDENCE DATA																			
Fax Number:	(405)285-4491																		
Phone:	405-285-4490																		
Email:	mml@marymlee.com																		
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.																			

OP \$320.00 13436880

Correspondent Name:	Mary M. Lee
Address Line 1:	1300 E. 9th Street, No. 4
Address Line 4:	Edmond, OKLAHOMA 73034

ATTORNEY DOCKET NUMBER:	3500-060
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NAME OF SUBMITTER:	Mary M. Lee
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Total Attachments: 3 source=3500-034 assignment#page1.tif source=3500-034 assignment#page2.tif source=3500-034 assignment#page3.tif
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Roger L. Schultz, et al.

Confirmation No. 4000

Application No.: 13/110,696

Art Unit: 2484

Filed: 05/18/2011

Examiner: (Not Yet Assigned)

For: ~~VORTEX CONTROLLED~~  
VARIABLE FLOW RESISTANCE  
DEVICE AND RELATED TOOLS  
AND METHODS

~~Att'y Dkt. No. 3500-034~~

ASSIGNMENT OF INVENTION

For:

U.S. Rights and Foreign Rights

For: U.S. Regular Utility Application

By: Inventors

In consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR(S):

Roger L. Schultz  
1164 County Rd. 1460  
Ninnekah OK 73067  
US Citizen

Michael L. Connell  
12812 S.W. 95<sup>th</sup> Street  
Mustang OK 73064  
US Citizen

Andrew M. Ferguson  
1333 S.W. 121st Street  
Oklahoma City OK 73128  
US Citizen

hereby sell(s), assign(s) and transfer(s) to

ASSIGNEE:

Through Tubing Solutions, Inc., a Delaware corporation  
11515 S. Portland  
Oklahoma City, OK 73170

and the successors, assigns and legal representatives of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the above-identified patent application, and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the

ASSIGNMENT OF INVENTION/APPLICATION

Att'y Dkt. No. 3500-034

Appl. No. 13/110,696

Filed: 05/18/2011

For: Vortex Controlled Variable Resistance Device and Related Tools and Methods

Inventors: Roger L. Schultz et al.

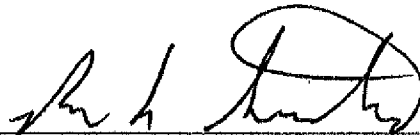
Page 2

above application or any regular application, continuation, division, renewal, or substitute thereof,  
and as to letters patent any reissue or re-examination thereof.

ASSIGNOR(S) hereby covenant(s) that no assignment, sale, agreement or encumbrance has been  
or will be made or entered into which would conflict with this assignment.

ASSIGNOR(S) further covenant(s) that ASSIGNEE will, upon its request, be provided promptly  
with all pertinent facts and documents relating to said invention and said Letters Patent and legal  
equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in  
any interference, litigation or proceeding related thereto and will promptly execute and deliver to  
ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to  
apply for, obtain, maintain, issue and enforce said application, said invention and said Letters  
Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes  
thereof.

IN WITNESS WHEREOF, I/we have hereunto set hand on the date shown below.



Signature of ROGER L. SCHULTZ  
(Inventor 1 of 3)

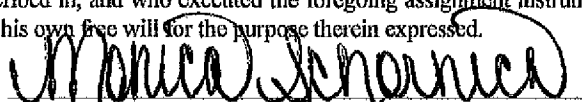
NOTARIAL ACKNOWLEDGEMENT

STATE OF OKLAHOMA )

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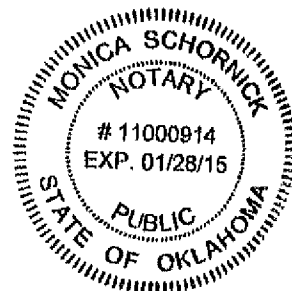
COUNTY OF OKLAHOMA )

Before me this 2nd day of August, 2011, personally appeared Roger L. Schultz, the above named  
individual, to me known to be the person who is described in, and who executed the foregoing assignment instrument  
and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

  
Notary Public

01/28/2015  
My Commission Expires

\*\*\*\*\*



ASSIGNMENT OF INVENTION/APPLICATION

Att'y Dkt. No. 3500-034

Appl. No. 13/110,696

Filed: 05/18/2011

For: Vortex Controlled Variable Resistance Device and Related Tools and Methods

Inventors: Roger L. Schultz et al.

Page 3

Michael L. Connell

Signature of MICHAEL L. CONNELL

(Inventor 2 of 3)

NOTARIAL ACKNOWLEDGEMENT

STATE OF OKLAHOMA )

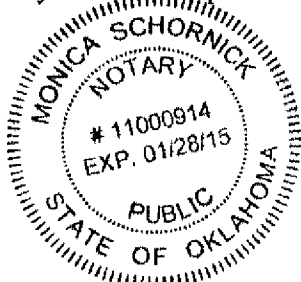
) §§

COUNTY OF OKLAHOMA )

Before me this 2nd day of August, 2011, personally appeared Michael L. Connell, the above named individual, to me known to be the person who is described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Monica Schornick  
Notary Public

01/28/2015  
My Commission Expires



\*\*\*\*\*

Andrew M. Ferguson

Signature of ANDREW M. FERGUSON

(Inventor 3 of 3)

NOTARIAL ACKNOWLEDGEMENT

STATE OF OKLAHOMA )

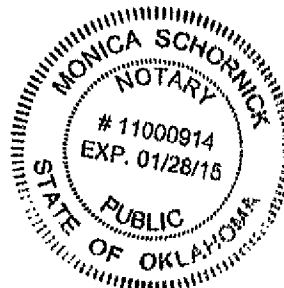
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Before me this 2nd day of August, 2011, personally appeared Andrew M. Ferguson, the above named individual, to me known to be the person who is described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Monica Schornick  
Notary Public

01/28/2015  
My Commission Expires



PATENT

RECORDED: 05/15/2012

REEL: 028212 FRAME: 0611