

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	LICENSE												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>A. . Phrangishvili</td> <td>04/18/2013</td> </tr> <tr> <td>Raul . Turmanidze</td> <td>04/18/2013</td> </tr> <tr> <td>Malkhaz . Chkoidze</td> <td>04/18/2013</td> </tr> <tr> <td>Nodari . Jojua</td> <td>04/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	A. . Phrangishvili	04/18/2013	Raul . Turmanidze	04/18/2013	Malkhaz . Chkoidze	04/18/2013	Nodari . Jojua	04/18/2013		
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>U.S. Department of Energy</td> </tr> <tr> <td>Street Address:</td> <td>1000 Independence Avenue, S.W.</td> </tr> <tr> <td>Internal Address:</td> <td>GC-62, 6F-048</td> </tr> <tr> <td>City:</td> <td>Washington</td> </tr> <tr> <td>State/Country:</td> <td>DISTRICT OF COLUMBIA</td> </tr> <tr> <td>Postal Code:</td> <td>20585-0162</td> </tr> </table>		Name:	U.S. Department of Energy	Street Address:	1000 Independence Avenue, S.W.	Internal Address:	GC-62, 6F-048	City:	Washington	State/Country:	DISTRICT OF COLUMBIA	Postal Code:	20585-0162
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 2025867127  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-586-2810        Email: katherine.baldwin@hq.doe.gov        Correspondent Name: Katherine Baldwin        Address Line 1: 1000 Independence Avenue, S.W.        Address Line 2: GC-62, 6F-048        Address Line 4: Washington, DISTRICT OF COLUMBIA 20585-0162</p>													
ATTORNEY DOCKET NUMBER:	S-101,293												
NAME OF SUBMITTER:	Katherine Baldwin												

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Signature:	/Katherine Baldwin/
Date:	06/06/2013
Total Attachments: 2 source=S-101293-ExclusiveLicense#page1.tif source=S-101293-ExclusiveLicense#page2.tif	

S-121,293

## EXCLUSIVE INVENTION LICENSE

Invention Title: **VARIABLE-DIAMETER ROTOR WITH CENTRIFUGAL FORCES COMPENSATION MECHANISM**

Inventors: Raul Turmanidze; Malkhaz Chkoidze; and Nodari Jojua

United States Patent Application Serial No.: 12/624,825

Patent Application Filing Date: November 24, 2009

Institute: Georgian Technical University (GTU)

Institute File No.:

ISTC Project Agreement No.: G-916

ISTC File No.: 376

Whereas, we, Raul Turmanidze; Malkhaz Chkoidze; and Nodari Jojua of the Georgian Technical University (GTU), employees of Prof. A. Phrangishvili, the Rector, hereafter referred to as inventors, have invented certain new and useful improvements in **VARIABLE-DIAMETER ROTOR WITH CENTRIFUGAL FORCES COMPENSATION MECHANISM** for which an application for a United States Patent was filed on November 24, 2009, Application Serial No. 12/624,825, and

Whereas, the United States Government, hereafter referred to as licensee, is desirous of acquiring the exclusive, irrevocable, royalty-free license (with the right to sublicense) in the above-identified invention for commercial purposes in the United States as provided for in the terms and conditions of the above-identified ISTC Project Agreement, as well as the ISTC Statute;

Now, therefore, in accordance with said ISTC Project Agreement, the ISTC Statute, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Georgian Technical University does hereby grant said licensee the exclusive, irrevocable, royalty-free license (with the right to sublicense) for commercial purposes in the United States in the above-identified invention and in and to any and all patents which may be granted therefore in the United States. The Georgian Technical University confirms that such license is in accordance with the ISTC Project Agreement under which the invention was made and in conformance with the ISTC Statute.

**PATENT**

**REEL: 030556 FRAME: 0597**

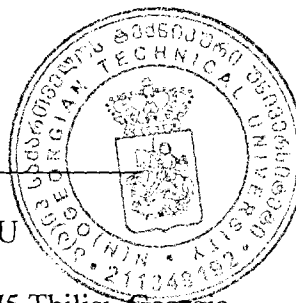
Executed this \_\_\_\_\_ of \_\_\_\_\_, 2013

The Georgian Technical University

By: A. Phrangishvili

Name: A. Phrangishvili, Rector of GTU

Business Address: Kostava str. 77, 0175 Tbilisi, Georgia



In addition, to the extent we, the inventors have any rights necessary for the United States Government to obtain the above license, we hereby grant those rights to the United States Government.

Raul Turmanidze

Signature: R. Turmanidze

Date: 18.04.2013

Malkhaz Chkoidze

Signature: M. Chkoidze

Date: 18.04.2013

Nodari Jojua

Signature: N. Jojua

Date: 18.04.2013

A large, stylized handwritten signature, likely belonging to one of the inventors, is written in the bottom right corner of the page.