

PATENT ASSIGNMENT

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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>Roe-Hoan Yoon</td> <td>11/10/2011</td> </tr> <tr> <td>Mert Kerem Eraydin</td> <td>08/03/2012</td> </tr> <tr> <td>Chad L. Freeland</td> <td>08/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	Roe-Hoan Yoon	11/10/2011	Mert Kerem Eraydin	08/03/2012	Chad L. Freeland	08/03/2012		
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<table border="1"> <tr> <td>Name:</td> <td>Virginia Polytechnic Institute and State University</td> </tr> <tr> <td>Street Address:</td> <td>301 Burruss Hall</td> </tr> <tr> <td>City:</td> <td>Blacksburg</td> </tr> <tr> <td>State/Country:</td> <td>VIRGINIA</td> </tr> <tr> <td>Postal Code:</td> <td>24061</td> </tr> </table>		Name:	Virginia Polytechnic Institute and State University	Street Address:	301 Burruss Hall	City:	Blacksburg	State/Country:	VIRGINIA	Postal Code:	24061
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US1123161</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US1123161						
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PCT Number:	US1123161										
CORRESPONDENCE DATA											
<p>Fax Number: 5409515292 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (540) 951-9374 Email: vtippatents@vtip.org Correspondent Name: Virginia Tech Intellectual Properties Address Line 1: 2200 Kraft Drive, Suite 1050 Address Line 4: Blacksburg, VIRGINIA 24060</p>											
ATTORNEY DOCKET NUMBER:	VTIP 10-074 PCT										
NAME OF SUBMITTER:	Mark S. Coburn										
<p>Total Attachments: 3 source=10-074 PCT Assign Inv to VT#page1.tif source=10-074 PCT Assign Inv to VT#page2.tif source=10-074 PCT Assign Inv to VT#page3.tif</p>											

OP \$40.00 US1123161

ASSIGNMENT

WHEREAS, I/we, the below-named inventor(s) (hereinafter referred to as ASSIGNORS) whose residence address is stated below, have invented certain new and useful improvements in an invention entitled:

Cleaning and Dewatering Fine Coal

for which an application for United States Letters Patent Serial No. PCT/US2011/023161 has been filed on 1/31/2011; and

WHEREAS, Virginia Polytechnic Institute and State University, (hereinafter referred to as ASSIGNEE), an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at 301 Burruss Hall, Blacksburg, Virginia, 24061, is desirous of acquiring the entire right, title and interest in, to and under said application and said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries and any non-provisional applications claiming the benefit of said application to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

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

VTIP 10-074

Serial Number: PCT/US2011/023161

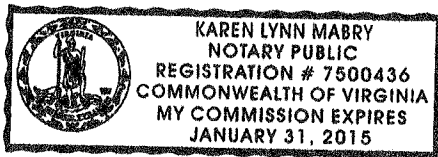
Full Name of Inventor: Roe-Hoan Yoon

Residence: 2909 Wakefield Drive, Blacksburg, VA 24060

Signature: R. H. Yoon Date: 11-10-11

County of Montgomery
State of Virginia

The foregoing instrument was acknowledged before me this 10th day of November, 2011
by Roe-Hoan Yoon



Karen Lynn Mabry
Notary Public
Notary Registration Number: 7500436
My Commission Expires: Jan. 31, 2015

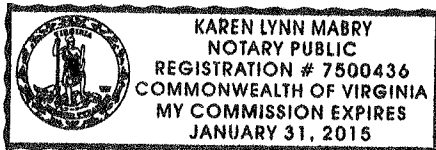
Full Name of Inventor: Mert Kerem Eraydin

Residence: 701 Palmer Drive, Blacksburg, VA 24060

Signature: Mert Kerem Eraydin Date: 08/03/2012

County of Montgomery
State of Virginia

The foregoing instrument was acknowledged before me this 3rd day of August, 2012 KLM
by Mert Kerem Eraydin



Karen Lynn Mabry
Notary Public
Notary Registration Number: 7500436
My Commission Expires: Jan. 31, 2015

VTIP 10-074

Serial Number: PCT/US2011/023161

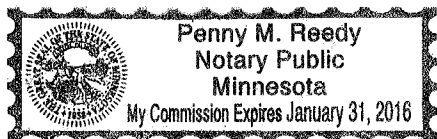
Full Name of Inventor: Chad L. Freeland

Residence: 12 Linney Street, Apt 4, P.O. Box 233, Babbitt, Minnesota 57706

Signature: Chad L Freeland Date: 8/3/12

County of St Louis
State of MN

The foregoing instrument was acknowledged before me this 3 day of August, 2012
by Chad L Freeland.



Penny M Reedy
Notary Public
Notary Registration Number: _____
My Commission Expires: 1-31-16