

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Christopher B. McCubbin</td> <td>03/15/2005</td> </tr> <tr> <td>Christine D. Piatko</td> <td>03/14/2005</td> </tr> <tr> <td>Steven J. Marshall</td> <td>03/14/2005</td> </tr> <tr> <td>Jessica L. Pistole</td> <td>03/14/2005</td> </tr> <tr> <td>Cheryl L. Resch</td> <td>03/15/2005</td> </tr> <tr> <td>Paul McNamee</td> <td>03/25/2005</td> </tr> </tbody> </table>		Name	Execution Date	Christopher B. McCubbin	03/15/2005	Christine D. Piatko	03/14/2005	Steven J. Marshall	03/14/2005	Jessica L. Pistole	03/14/2005	Cheryl L. Resch	03/15/2005	Paul McNamee	03/25/2005
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RECEIVING PARTY DATA															
Name:	The Johns Hopkins University														
Street Address:	34th & Charles Streets														
City:	Baltimore														
State/Country:	MARYLAND														
Postal Code:	21218														
PROPERTY NUMBERS Total: 1															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11080143</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11080143										
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CORRESPONDENCE DATA															
Fax Number:	(240)228-5254														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	240-228-5632														
Email:	lydia.henry@jhupl.edu														
Correspondent Name:	Albert J. Fasulo, II														
Address Line 1:	34th & Charles Streets														
Address Line 4:	Baltimore, MARYLAND 21218														
NAME OF SUBMITTER:	Albert J. Fasulo, II														

CH \$40.00 11080143

Total Attachments: 4

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**PATENT
 REEL: 016092 FRAME: 0813**

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ASSIGNMENT

WHEREAS, Christopher B. McCubbin, Christine D. Piatko, Steven J. Marshall, Jessica L. Pistole, Cheryl L. Resch, and Paul McNamee, hereinafter referred to as the ASSIGNORS, have made an invention as described in a United States patent application entitled:

PATH PLANNING FOR MINE CONUTERMEASURES

which application was executed by them on 3/15/2005, 3/14/2005, 3/14/2005, 3/14/2005, 3/15/2005, and 3/16/2005 respectively, and

WHEREAS, The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire an interest therein;

NOW, THEREFORE, in consideration of their employment by ASSIGNEE, the ASSIGNORS do hereby sell, assign and transfer to the ASSIGNEE the entire right, title and interest in and to said invention in the United States and its territories and possessions and in all foreign countries and the entire right, title and interest in and to said international application and any substitutions, divisions, continuations, or continuations-in-part based upon said application, and in and to any and all Letters Patent, whether original or reissue, which may be granted for said invention in the United States and its territories and possessions and in any and all foreign countries, the invention, said patent application, and any and all such patents to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its legal representatives as fully and entirely as the same would have been held by the ASSIGNORS had this agreement not been made.

THE ASSIGNORS here further agree to make, execute, and deliver to the ASSIGNEE, its successors, assigns, and legal representatives, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the aforesaid application, and of any United States or foreign applications, and of any substitutions, divisions, continuations, or continuations-in-part of said application, or applications for reissues of said Letters Patents, and to aid the ASSIGNEE, its successors, assigns, and legal representatives in every way in protecting the said invention as may be requested, provided, however that they shall not have to pay any expenses arising from extending such assistance.

THE ASSIGNORS hereby covenant that they have the right to grant the foregoing assignment.

Christopher B. McCubbin SEAL 3/15/05 DATE
Christopher B. McCubbin

STATE OF MARYLAND)
COUNTY OF Carroll)

On this 15 day of March, 2005, before me, the undersigned officer, personally appeared the above-named Christopher B. McCubbin, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

Elizabeth A. Bunda-Lee
Signature
Elizabeth A. Bunda-Lee
Printed Name
Notary Public
My Commission expires 1-1-09

Christine D. Piatko SEAL 3/14/05 DATE
Christine D. Piatko

STATE OF MARYLAND)
COUNTY OF Carroll)

On this 14 day of March, 2005, before me, the undersigned officer, personally appeared the above-named Christine D. Piatko, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that she executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

Elizabeth A. Bunda-Lee
Signature
Elizabeth A. Bunda-Lee
Printed Name
Notary Public
My Commission expires 1-1-09

Steven J. Marshall SEAL 3/14/05 DATE
Steven J. Marshall

STATE OF MARYLAND)
COUNTY OF Carroll)

On this 14 day of March, 2005, before me, the undersigned officer, personally appeared the above-named Steven J. Marshall, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

Elizabeth A. Bunda-Lee
Signature
Elizabeth A. Bunda-Lee
Printed Name
Notary Public
My Commission expires 1-1-09

Jessica L. Pistole SEAL 3/14/2005 DATE
Jessica L. Pistole

STATE OF MARYLAND)
COUNTY OF Carroll)

On this 14 day of March, 2005, before me, the undersigned officer, personally appeared the above-named Jessica L. Pistole, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that she executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

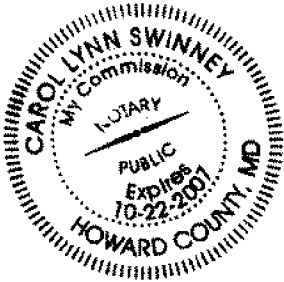
Elizabeth A. Bunda-Lee
Signature
Elizabeth A. Bunda-Lee
Printed Name
Notary Public
My Commission expires 1-1-09

Cheryl L. Resch SEAL 3/15/05 DATE
Cheryl L. Resch

STATE OF MARYLAND)
COUNTY OF HOWARD)

On this 15th day of March, 2005, before me, the undersigned officer, personally appeared the above-named Cheryl L. Resch, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that she executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.



Carol Lynn Swinney
Signature
CAROL LYNN SWINNEY
Printed Name

Notary Public
My Commission expires 10-22-2007

Paul McNamee SEAL 3/25/05 DATE
Paul McNamee

STATE OF MARYLAND)
COUNTY OF Howard)

On this 25 day of March, 2005, before me, the undersigned officer, personally appeared the above-named Paul McNamee, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

Lydia Henry
Signature
Lydia Henry
Printed Name

Notary Public
My Commission expires Nov 10, 2008