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SUBMISSION TYPE:			NEW ASSIGNMENT		
NATURE OF CONVEYANCE:			ASSIGNMENT		
CONVEYING PARTY DATA					
Ni			lame	Execution Date	
Frank J. Bis				01/08/2008	
Richard W. Givens				01/10/2008	
James J. Reuther				01/08/2008	
Walter G. VanCleave				01/10/2008	
RECEIVING PARTY DATA					
Name:	Battelle Memorial Institute				
Street Address:	505 King Avenue				
City:	Columbus				
State/Country:	ОНЮ				
Postal Code:	43201-2693				
PROPERTY NUMBERS Total: 1 Property Type Number					
Property Type		Number			
PCT Number: US0		US071	717973		
CORRESPONDENCE DATA					
Fax Number: (614)424-3864					
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.					
Phone:					
Email: kooneb@battelle.org Correspondent Name: Brenda Block Koone					
Address Line 1: 505 King Avenue					
	Address Line 2: Battelle Memorial Institute				
Address Line 4: Columbus, OHIO 43201-2693					
ATTORNEY DOCKET NUMBER:			15292PCT		
NAME OF SUBMITTER:			Brenda Block Koone		
Total Attachments: 3 PATENT					
500444916 REEL: 020396 FRAME: 0423					

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ASSIGNMENT

Frank J. Bis Richard W. Givens James J. Reuther Walter G. VanCleave to Battelle Memorial Institute

WHEREAS we, Frank J. Bis, of Dublin, in the County of Franklin, and State of Ohio, Richard W. Givens, of Columbus, in the County of Franklin, and State of Ohio, James J. Reuther, of Worthington, in the County of Franklin, and State of Ohio, and Walter G. VanCleave, of Pickerington, in the County of Fairfield, and State of Ohio, have made certain inventions in **MINER COMMUNICATION AND LOCATION SYSTEM**, for which an International Application designating the United States was filed on **14 August 2007** and was allocated International Application No. **PCT/US07/17973**; and

WHEREAS, Battelle Memorial Institute, a corporation of Ohio, having a place of business at 505 King Avenue, Columbus, Ohio, herein called "ASSIGNEE", is desirous of acquiring our entire right, title, and interest in said invention and application therefor, and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the said Assignee, our entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application executed by us, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Assignee, as the assignee of our entire right, title, and interest in and to the same for the sole use and behoof of the said Assignee, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Assignee, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Assignee, execute such application papers as may be desired by the said Assignee for the filing of any division or renewal of the application herein conveyed, or for the reissues or extensions of any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Assignee.

And we further assign unto the said Assignee our whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Assignee to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said assignee, as well as all other necessary papers.

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PATENT REEL: 020396 FRAME: 0425

ASSIGNMENT

Frank J. Bis Richard W. Givens James J. Reuther Walter G. VanCleave to **Battelle Memorial Institute**

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus, Ohio this 8 day of JANUARY, 2008.

STATE OF OHIO

COUNTY OF FRANKLIN

This <u>Stk</u> day of <u>A</u>W, 2008 before me, a Notary Public in and for the County aforesaid, personally appeared Frank J. Bis, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.



BRENDA BLOCK KOONE NOTARY PUBLIC, STATE OF OHIO MY COMMISSION EXPIRES MAY 18, 2008

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Thenda Block Koone Notary Public

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus, Ohio this 10-74 day of JAN , 2008.

Richard W. Givens

STATE OF OHIO

COUNTY OF FRANKLIN

) :ss)

day of _____, 2008, before me, a Notary Public in and for the County aforesaid, This personally appeared Richard W. Givens, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.



BRENDA BLOCK KOONE NOTARY PUBLIC, STATE OF OHIO MY COMMISSION EXPIRES MAY 18, 2008

Brenda Block Koone

Notary Public

PATENT REEL: 020396 FRAME: 0426

ASSIGNMENT

15292PCT

Frank J. Bis Richard W. Givens James J. Reuther Walter G. VanCleave to Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus, Ohio this _______ day of _______, 2008.

James J. Reuther

STATE OF OHIO

COUNTY OF FRANKLIN

This <u>Sth</u> day of <u>Jan</u>., 2008, before me, a Notary Public in and for the County aforesaid, personally appeared James J. Reuther, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.



BRENDA BLOCK KOONE NOTARY PUBLIC, STATE OF ONO MY COMMISSION EXPIRES MAY 18, 2008

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Brenda Block Horne Notary Public

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus, Ohio this ______ day of ______, 2008.

S. Vancen It

Walter G. VanCleave

STATE OF OHIO

COUNTY OF FRANKLIN

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This 10th day of ______, 2008, before me, a Notary Public in and for the County aforesaid, personally appeared Walter G. VanCleave, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.



BRENDA BLOCK KOONE NOTARY PUBLIC, STATE OF OHIO MY COMMISSION EXPIRES MAY 18, 2008

Menda Block Koone______ Notary Public

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PATENT REEL: 020396 FRAME: 0427

RECORDED: 01/22/2008