U.S. PTO 12/155062 05/29/2008

06-05-2008



U.S. Department of Commerce **Patent and Trademark Office** Attorney Docket No. 08350.7881

To the Director of the U.S. Pat Please record the attached or			Mail Stop A	Assignment R	decordation Servic
	de Marie Katinas; (3) Leonard George ek; (5) Jason Adam Smid; (6) Philip Carl	2. I	Name and addre		party(ies):
Additional name(s) of conveying	party(ies) attached? Yes No	Internal A	ddress: Intel	lectual Proper	ty Department
3. Nature of conveyance:		Street Ad	dress: 100	N.E. Adams S	treet
	☐ Merger	City:	Peoria		
Security Agreement	☐ Change of Name	State:	IL	Zip Code:	61629-6490
Joint Research Agreement	Government Interest Assignment	Additiona	I name(s) & Addi	ress(es) attach	ned?
Executive Order 9494, Confirmatory License	Other:	(☐ Yes	⊠ No	
2008; (4) Ma	2008; (2) May 20, 2008; (3) May 21, ay 21, 2008; (5) May 22, 2008; (6) May 27, 2008; (6) May 28, 2008				
4. Application number(s) of the application: (1) Mar (7) May 21, 2008; and (or patent number(s): If this document is be y 21, 2008; (2) May 20, 2008; (3) May 21, (8) May 28, 2008	eing filed tog 2008; (4) M	ether with a new lay 21, 2008; (5)	application, to May 22, 2008	he execution date of the control of
A. Patent Application Num	nber(s):	B. F	Patent Number(s	·):	
	Additional numbers attached?	☐ Yes	⊠ No		
Name and address of p concerning document s	party to whom correspondence should be mailed:	6.		applications ar	nd patents involved
Name:	(202) 408-4000	7.	Total fee (37 CFF	R 1.21(h) and	3.41): \$40
Internal Address: FINNEGAN, & DUNNER	, HENDERSON, FARABOW, GARRETT , L.L.P.		·	-	deficiency or credit count 06-0916)
	ork Avenue, N.W.		Authorized t	to be charged	to deposit account
City: Washington, D.	C.				
State: Z	Zip: 20001-4413	8. [Deposit Account	No.: <u>06-0916</u>	
9. Statement and signatur To the best of my knowledge and document. Signed:	Judy W. Chung, Reg. No. 61,6	///	and any attached	May 29, 200	
	number of pages including cover sheet, a	ttachments	and documents:	21	
6/2007		/	/20 /0000 MAUMER4	00000070 12	1550(2

05/30/2008 MAHMED1 00000070 12155062

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ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

SYSTEMS AND METHODS FOR SIMULATING AN ENGINE ENVIRONME	ENT
for which We executed an application for United States Letters Patent concurrently herewith or file United States Letters Patent on, 20 (Serial No); and	ed an application for
WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Interpeted to Department, 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assigned securing the entire right, title, and interest in and to this invention in all countries throughout the way application for United States Letters Patent on this invention and the Letters Patent to be issued up	ee), is desirous of orld, and in and to the
NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$\script{S}\) other good and valuable consideration the receipt of which from Assignee is hereby acknowledge have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over a lawful successors and assigns, our entire right, title, and interest in and to this invention, provision filed (if any), and this application, and all divisions, and continuations thereof, and all United States which may be granted thereon, and all reissues thereof, and all rights to claim priority above provisional application (if any), as well as all rights to claim priority on the basis of this applications for Letters Patent which may hereafter be filed for this invention in any foreign country which may be granted on this invention in any foreign country, and all extensions, renewals, and repety authorize and request the Commissioner of Patents and Trademarks of the United States foreign country whose duty it is to issue patents on applications as described above, to issue all L invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment AND. WE HEREBY countries that We have the full sight to account the interest assignment.	d, We, as Assignors, unto the Assignee, its hal application Serial No. Letters Patent of the ity on the basis of the ication, and all y and all Letters Patent eissues thereof; and We and any official of any etters Patent for this ht;
AND, WE HEREBY covenant that We have the full right to convey the interest assigned be We have not executed and will not execute any agreement in conflict with this Assignment;	y this Assignment, and
AND, WE HEREBY further covenant and agree that We will, without further consideration Assignee, its successors and assigns, any facts known to us respecting this invention, and testify sign all lawful papers when called upon to do so, execute and deliver any and all papers that may desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute a continuation, and reissue applications, make all rightful oaths and generally do everything possible successors and assigns, to obtain and enforce proper patent protection for this invention in the Unforeign country, it being understood that any expense incident to the execution of such papers shadsignee, its successors and assigns.	in any legal proceeding, be necessary or all divisional, e to aid Assignee, its nited States and any
IN TESTIMONY WHEREOF, We have hereunto set our hands.	
1. FULL NAME OF SOLE OR FIRST ASSIGNOR Cliff James SALISBURY ASSIGNOR'S SIGNATURE	DATE 5/21/2008
ADDRESS 2401 W Alta Rd., Apt. 1301, Peoria, IL 61615	CITIZENSHIP U.S.

Page 1 of 5

Listing of Inventors Continued on Page 2 hereof ⊠ Yes ☐ No

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1 WITNESS NAME	WINESS SIGNATURE	DATE
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ADDRESS		CITIZENSHIP
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ANY Part In Contract Diversity	, 30 6/60	
2. WITNESS NAME	MATNESS SIGNATURE	DATE
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ADDRESS		CITIZENSHIP
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908 Balane Conce		<u> </u>
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2 FULL NAME OF SECOND ASSIGNOR, IF ANY Jade Marie KATINAS	ASSIGNOR'S SIGNATURE	DATE 5/10/110/05
	flool Kilnes	5/20/2008
ADDRESS Chillicothe II 61	róó.	CITIZENSHIP
201 Cloverfield Drive, Chillicothe, IL 61	523	U.S.
<u>L</u>		
1. WITHESS NAME	WITNESS SIGNATURE	DATE
& Mutchen Kinoby	B. Matthew Timber	5/12/2000
ADDRESS	,	CITIZENSHIP
730 Car Cleek Read Metamini.	TA GISUS	U. 5.
	A. C.	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Nick Travelle		5/40/2003
ADDRESS		CITIZENSHIP
# * - Fig. 17 *		· · · · · · · · · · · · · · · · · · ·
Marcher drive Center IL 61570		U.S

3. FILL NAME OF THIRD ASSIGNOR, IF ANY Leonard George WHEAT	ASSIGNOR'S SIGNATURE Transact D. Lacket	DATE 5/2//2108
ADDRESS 808 South Scott Court, Manito, IL 61546		CITIZENSHIP U.S.
1. WITHESS NAME	WITNESS SIGNATURE	DATE DATE
ADDRESS GIFT FOR Road Tochen	10 IL 61007	CITIZENSHIP
2. WITNESS NAME JEFF PLUKET ADDRESS	WITNESS SIGNATURE	DATE 5/21/2018
ADDRESS BARROWS BARROWS		CITIZENSHIP
WASHINGTON IL 61574		
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Jennifer Joan LEUSTEK	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1309 N. Hickory Hills Road, Metamora,	IL 61548	CITIZENSHIP U.S.
1. WITNESS NAME	: WITNESS SIGNATURE	DATE.
ADDRESS		CITIZENSHIP
		<u> </u>
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

Page 3 of 5

5. FULL NAME OF FIFTH ASSIGNOR, IF ANY Jason Adam SMID	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1440 Tradition Circle #201, Melbourne,	FL 32901	CITIZENSHIP U.S.
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1 WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
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6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Philip Carl SPENGLER	ASSIGNORE SIGNATURE	DATE 5/21/08
ADDRESS 133 Camelon Drive, Washington, IL 61	571	CITIZÉNSHIP
1. WITNESS NAME CHRISTOPHIC GOSEPH Scalladec	WITHES SIGNATURE	CITIZENSHIP
ADDRESS 1001-1104 W. COME FLOWER	Dr.	CITIZENSHIP
Percent, IL GHIS		
2 WITHESS NAME HIND AND AKON	MINESS SIGNATURE A. Alexy	DATE /21/08
825 W. Kensington D	· f ·	CITIZÉNSHÍP (パン・
Persia, IL 61614		

Page 4 of 5

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7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Mark Andrew MCELROY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 11100 N. Wilderness Drive, Peoria, IL 61615		CITIZENSHIP U.S.
1 WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
Z. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS:		CITIZENSHIP
Beth Ann SEBRIGHT	ÁSSIGNÓR'S:SIGNATURE	DATE
ADDRESS 4606 E. Hart Lane, Chillicothe, IL 61523		CITIZENSHIP U:S.
1, WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
AODRESS	,	CITIZENSHIP

Page 5 of 5

ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

SYSTEMS AND METHODS FOR SIMULATING AN ENGINE ENVIRONMENT

for which We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on, 20 (Serial No); and
WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intellectual Property Department, 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;
NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No, filed (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF. We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Cliff James SALISBURY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2401 W Alta Rd., Apt. 1301, Peoria, IL 61615		CITIZENSHIP U.S.

Listing of Inventors Continued on Page 2 hereof $oxed{\boxtimes}$ Yes $oxed{\square}$ No

Page 1 of 5

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
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2. FULL NAME OF SECOND ASSIGNOR, IF ANY JACE Marie KATINAS	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 201 Cloverfield Drive, Chillicothe, IL 61523		CITIZENSHIP U.S.
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1. WITNESS NAME	WITNESS SIGNATURE	DATE
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3. FULL NAME OF THIRD ASSIGNOR, IF ANY Leonard George WHEAT	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 808 South Scott Court, Manito, IL 61546		CITIZENSHIP U.S.
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4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Jennifer Joan LEUSTEK	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1309 N. Hickory Hills Road, Metamora, IL 61548		CITIZENSHIP U.S.
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ADDRESS		CITIZENSHIP
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5. FULL NAME OF FIFTH ASSIGNOR, IF ANY Jason Adam SMID	ASSIGNOR'S SIGNATURE	DATE 5-22-2008
ADDRESS 1440 Tradition Circle #201, Melbourne	, FL 32901	CITIZENSHIP U.S.
1. WITNESS NAME KARL WESSON	WITNESS SIGNATURE	DATE C-22-2008
ADDRESS 1125 HWY AIA -	HSOR	CITIZENSHIP US.
Satellite Beach, FC	34937	
CZCARCALI . C CCC / f & C		
2. WITNESS NAME NEAL Rush	WITNESS SIGNATURE Sell Push	DATE 5/22/08
ADDRESS 1240 Goode Dr	NE	CITIZENSHIP
Pelm Bay, FL.	32907	
6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Phillip Carl SPENGLER	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 133 Camelon Drive, Washington, IL 61	1571	CITIZENSHIP U.S.
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Mark Andrew MCELROY	ASSIGNOR'S SIGNATURE	DATE
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8. FULL NAME OF EIGHTH ASSIGNOR, IF ANY Beth Ann SEBRIGHT	ASSIGNOR'S SIGNATURE	DATE
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PATENT

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NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No, filed (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;
AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;
AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any

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Listing of Inventors Continued on Page 2 hereof 🛛 Yes 🔲 No

Assignee, its successors and assigns.

Page 1 of 5

1. WITNESS NAME	WITNESS SIGNATURE	DATE	
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2. WITNESS NAME	WITNESS SIGNATURE	DATE	
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ADDRESS 201 Cloverfield Drive, Chillicothe, IL 61	523	CITIZENSHIP U.S.	
1. WITNESS NAME	WITNESS SIGNATURE	DATE	
ADDRESS		CITIZENSHIP	
2. WITNESS NAME	WITNESS SIGNATURE	DATE	
ADDRESS		CITIZENSHIP	

3. FULL NAME OF THIRD ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
Leonard George WHEAT	AUGUSTON CONTRACTOR	UATE
ADDRESS 808 South Scott Court, Manito, IL 6154	46	CITIZENSHIP U.S.
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1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WTNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Jennifer Joan LEUSTEK	ASSIGNOR'S SIGNATURE	DATE /21/2008
ADDRESS 1309 N. Hickory Hills Road, Metamora,	IL 61548	CITIZENSHIP U.S.
1. WITNESS NAME CHRISTOPHER F. GALLMEYEN	WITNESS SIGNATURE TO A MILLION	DATE /21/2008
ADDRESS 4120 N BROOKMONT RD PEORTH IL		CITIZENSHIP US
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		<u> </u>
2. WITHESS NAME Mike BOTKINS	MARS SIGNATURE TO THE STATE OF	PATE 1/200f
FISH N. Terra Vista Dr.		
7150 Niterca Vista Dr	Parsia IL 606/4	CITIZENSHIP

5. FULL NAME OF FIFTH ASSIGNOR, IF ANY JASON Adam SMID	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1440 Tradition Circle #201, Melbourne, FL 32901		CITIZENSHIP U.S.
1. WITNESS NAME	WTNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WTNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Philip Carl SPENGLER	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 133 Camelon Drive, Washington, IL 61571		CITIZENSHIP U.S.
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Mark Andrew MCELROY	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 11100 N. Wilderness Drive, Peoria, IL 61615		CITIZENSHIP U.S.
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
8. FULL NAME OF EIGHTH ASSIGNOR, IF ANY Beth Ann SEBRIGHT	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 4606 E. Hart Lane, Chillicothe, IL 6152	ADDRESS 4606 E. Hart Lane, Chillicothe, IL 61523	
1. WITNESS NAME	WITNESS SIGNATURE	DATE .
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

Page 5 of 5

PATENT

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7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY MARK ANDREW MCELROY	ASSIGNATURE ASSIGNATURE	DATE 5-21-2008
ADDRESS 11100 N. Wilderness Drive, Peoria, IL	61615	CITIZENSHIP U.S.
1. WITNESS NAME LODGER GALLO	WITNESS SIGNATURE LOSS,	DATE 5-21-08
ADDRESS NAME LODGER GALL ADDRESS 22176 WOODLAME C'T		CITIZENSHIP
MORTON IL 6155		
2. WATHESS NAME	WINESS SIGNATURE	DATE 5-21-68
2. WATHESS NAME ADDRESS ADDRESS 3847 W. Palmy 2A \$44		CITIZENSHIP US
PRORIA, - C 6/604		
8. FULL NAME OF EIGHTH ASSIGNOR, IF ANY Beth Ann SEBRIGHT	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 4606 E. Hart Lane, Chillicothe, IL 6152	23	CITIZENSHIP U.S.
1. WITNESS NAME	WITNESS SIGNATURE	DATE .
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<u> </u>		
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Department, 100 N.E. Adams Street, Peorla, II securing the entire right, title, and interest in and	ion of Delaware whose post office address is Inte L 61629-6490 (hereinafter referred to as Assigne to this invention in all countries throughout the waits invention and the Letters Patent to be issued u	e), is desirous of orld, and in and to the
other good and valuable consideration the receip have sold, assigned, transferred, and set over, a lawful successors and assigns, our entire right, to filed (if any), and this application, at United States which may be granted thereon, an above provisional application (if any), as well as applications for Letters Patent which may hereaf which may be granted on this invention in any for hereby authorize and request the Commissioner foreign country whose duty it is to issue patents.	r and in consideration of the sum of One Dollar (\$ of which from Assignee is hereby acknowledged and do hereby sell, assign, transfer, and set over utile, and interest in and to this invention, provision all divisions, and continuations thereof, and all id all reissues thereof, and all rights to claim priority on the basis of this appliater be filed for this invention in any foreign country reign country, and all extensions, renewals, and not patents and Trademarks of the United States are applications as described above, to issue all Less in accordance with the terms of this Assignment.	d, We, as Assignors, unto the Assignee, its al application Serial No. Letters Patent of the ty on the basis of the cation, and all and all Letters Patent eissues thereof; and We and any official of any etters Patent for this
AND, WE HEREBY covenant that We have not executed and will not execute any a	ave the full right to convey the interest assigned by	y this Assignment, and
Assignee, its successors and assigns, any facts sign all lawful papers when called upon to do so, desirable to perfect the title to this invention in sa continuation, and reissue applications, make all r successors and assigns, to obtain and enforce p	d agree that We will, without further consideration, known to us respecting this invention, and testify execute and deliver any and all papers that may aid Assignee, its successors or assigns, execute a rightful oaths and generally do everything possible roper patent protection for this invention in the Unense incident to the execution of such papers sha	in any legal proceeding, be necessary or all divisional, to aid Assignee, its aited States and any
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Eisting of toventors Continued on Page 2 hereof 🖾 Yes 🔲 No

Page 1 of 5

		
1. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. FULL NAME OF SECOND ASSIGNOR, IF ANY JACE MARIE KATINAS	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 201 Cloverfield Drive, Chillicothe, IL 61523		CITIZENSHIP U.S.
		Photographs
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WINESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

ASSIGNOR'S SIGNATURE	DATE	
ASSIGNOR'S SIGNATURE ADDRESS 808 South Scott Court; Manito, IL 61546		
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	CITIZENSHIP	
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ADDRESS		
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ASSIGNOR'S SIGNATURE	DATE	
ASSIGNOR'S SIGNATURE Jennifer Joan LEUSTEK ADDRESS 1309 N. Hickory Hills Road, Metamora, IL 61548		
WITNESS SIGNATURE	DATE	
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Page 3 of 5

PATENT

5. FULL NAME OF FIFTH ASSIGNOR, IF ANY Jason Adam: SMID	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1440 Tradition Circle #201, Melbourne, FL 32901		CITIZENSHIP U.S.
1, WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WINESS NAME	WITNESS SIGNATURE	DATE
ADDRESS	ADDRESS	
6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Philip Carl SPENGLER	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 133 Camelon Drive, Washington, IL 61571		CITIZENSHIP- U.S.
		•
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DÄŢE
ADDRESS		CITIZENSHIP

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7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Mark Andrew MCELROY	ASSIGNOR'S SIGNATURE	DATE
11100 N. Wilderness Drive, Peoria, IL	61615	CITIZENSHIP U.S.
		·
1, WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
		العيب والمستخدمة
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
B. FULL NAME OF EIGHTH ASSIGNOR, IF ANY Beth Ann SEBRIGHT	ASSIGNOR'S SIGNATURE BUTCH	DATE 5-28-08
ADDRESS 4606 E. Hart Lane, Chillicothe, IL 6152	3	CITIZENSHEP U.S.
1. WITNESS NAME	WITNESS SIGNATURE & MILLION	DATE 5/28/08
ADDRESS	IVE	CITIZENSHIP
GEANNILE TL 613		
2. WITNESS NAME JOHN TRUHAN	withese signature Trulian.	DATE 5/28/28
ADDRESS 7.314 N. MIRAMA		CITIZENSHIP
PEORIA, IL 61		

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RECORDED: 05/29/2008

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