## 1782

# CH \$40.00

#### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
Rao H. Desineni	04/24/2010
Ronald DeShawn Blanton	04/24/2010
Wojciech Maly	04/25/2010

#### RECEIVING PARTY DATA

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Street Address: 5000 Forbes Avenue			
City: Pittsburgh			
State/Country: PENNSYLVANIA			
Postal Code: 15213			

#### PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	11651782		

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	12102-20-999	
NAME OF SUBMITTER:	Matthew W. Johnson	

Total Attachments: 6

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ATTORNEY'S DOCKET NO. PAT00	1203-001/US (012102-0020-999)		
	For:   U.S. and/or   Foreign Rights  For:   U.S. Application or  U.S. Provisional Application  U.S. Patent  For:   PCT Application  By:   Inventor(s) or   Present Owner		
ASSIGNME	ENT OF INVENTION		
In consideration of the payment by ASS the receipt of which is hereby acknowled	SIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), ged, and for other good and valuable consideration.		
ASSIGNOR:			
Inventor(s) or person(s) or	Ronald DeShawn BLANTON		
entity(ies) who own the invention	(type or print name(s) of ASSIGNOR(S))		
	1511 Brimfield Drive		
	Sewickley, PA 15143		
	Address		
	United States of America		
	Citizenship		
Inventor(s) or person(s) or	Rao H. DESINENI		
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Inventor(s) or person(s) or	Wojciech MALY		
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	Pittsburgh, PA 15217		
	Address		
	United States of America		
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PII-1153142v1

PATENT REEL: 024535 FRAME: 0758

## (if assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO, add the following)

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ASSIGNEE:	Carnegie Mellon University					
	(type or print name(s) of ASSIGNOR(S))					
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	Pittsburgh, PA 15213					
	Address					
	United States of America					
	Nationality					
	runonanty					
and the successors, as	signs and legal representatives of the ASSIGNEE					
$\bowtie$	the entire right, title and interest					
	an undivided percent (%) interest for the United States and its					
territorial possession						
(check the following box, if foreign rights are also to be assigned)						
$\boxtimes$	and in all foreign countries, including all rights to claim priority, in and to any					
	which are disclosed in the invention entitled:					
Using Neighborhood Diagnosis	Functions to Extract Logical Models of Physical Failures Using Layout Based					
Name of inventor(s)	Ronald DeShawn BLANTON, Rao H. DESINENI, and Wojciech MALY					
	(check and complete (a), (b), (c), (d), (e), (f) or (g))					
and which is found in						
(a)	U.S. patent application executed on even date herewith					
(b)	U.S. patent application executed on					
(c)	U.S. provisional application naming the above inventor(s) for the above entitled invention.					
	Express mail label no.					
	Mailed:					
. [	To comply with 37 CFR 3.21 for recordal of this assignment, I, and ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.					
(d) 🔀						
(4) 12	filed on 10 January 2007					
(e)						
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(f) U.S. patent no.	nt no.		issued			
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	WARNING	: The (a) 1	date of sign vas checked	ing must be th l above.	e same as the date	e of execution of the application, if item
Date:				· · · ·	Signature of R	Ronald DeShawn BLANTON
Date:	04/	124/20	10	<del></del> .	Signature of R	AKEL Rao H. DESINENI
Date:					Signature of V	Voiciech MALY
		(if ASS	IGNOR is a	legal entity, c	omplete the follow	ring information)
						name of the above person n on behalf of ASSIGNOR
					Title	-
Note: prima faci	No witnessing ie evidence of	, notarizati execution.	on or legaliza 35 USC 261.	ation is necessar Use next page	y. If the assignment if notarization is des	t is notarized or legalized, then it will only be sired.
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ATTORNEY'S DOCKET NO.	PAT001203-001/US (012102-0020-999)			
	For: U.S. and/or Foreign Rights For: U.S. Application or U.S. Provisional Application U.S. Patent For: PCT Application By: Inventor(s) or Present Owner			
AS	SSIGNMENT OF INVENTION			
In consideration of the payme the receipt of which is hereby a	ent by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), cknowledged, and for other good and valuable consideration.			
ASSIGNOR:				
Inventor(s) or person(s) or	Ronald DeShawn BLANTON			
entity(ies) who own the invention	(type or print name(s) of ASSIGNOR(S))			
	1511 Brimfield Drive			
	Sewickley, PA 15143			
	Address			
	United States of America			
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PATENT REEL: 024535 FRAME: 0761

### (if assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO, add the following)

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hereby sells, ass	signs and	l transfers to				
ASSIGNEE:		Carnegie Mellon University				
		(type or print name(s) of ASSIGNOR(S))				
		5000 Forbes Avenue				
		Pittsburgh, PA 15213				
		Address				
		United States of America				
		Nationality				
and the successo	ors, assig	the entire right, title and interest				
territorial posses	ssion	an undivided percent (%) interest for the United States and its				
(check the following box, if foreign rights are also to be assigned)						
	and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:					
Using Neighbor Diagnosis	hood Fu	nctions to Extract Logical Models of Physical Failures Using Layout Based				
Name of inventor(s) Ronald DeShawn BL		Ronald DeShawn BLANTON, Rao H. DESINENI, and Wojciech MALY				
		(check and complete (a), (b), (c), (d), (e), (f) or (g))				
and which is fou	ınd <u>in</u>					
(a)		U.S. patent application executed on even date herewith				
(b)		U.S. patent application executed on				
(c)	Ll	U.S. provisional application naming the above inventor(s) for the above entitled invention.				
		Express mail label no.				
	_	Mailed:				
		To comply with 37 CFR 3.21 for recordal of this assignment, I, and ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.				
(d)	$\boxtimes$	U.S. application no. 11/651,782				
		filed on 10 January 2007				
(e)		International application no. PCT/ /				

	<b>(t)</b>	Ц	U.S. patent no.	issued
			A chang	g patent maintenance fees is being sent separately.
	(g)	$\boxtimes$	(also check (g), if j and any legal equiv claim priority	foreign application(s) is also being assigned) valent thereof in a foreign country, including the right to
and, contin	nuation, div	all Letters vision, rene	Patent to be obtained and partition of substitute the	ined for said invention by the above application or any ereof, and as to letters patent any reissue or re-examination
will b	ASSIGN e made or o	OR hereby	y covenants that no which would confli	assignment, sale, agreement or encumbrance has been or ict with this assignment;
or pr repres	rtinent facts be known as oceeding resentatives a offorce said	s and docu nd accessib related the ny and all application	ments relating to said ble to ASSIGNOR are reto and will pron papers, instruments	SIGNEE will, upon its request, be provided promptly with d invention and said Letters Patent and legal equivalents and will testify as to the same in any interference, litigation uptly execute and deliver to ASSIGNEE or its legal or affidavits required to apply for, obtain, maintain, issue said Letter Patent and said equivalents thereof which may see thereof.
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	Date of S	Signing		
	WARNIN	( <b>G:</b> The	date of signing must b was checked above.	be the same as the date of execution of the application, if item
Date:	41	24/10		(a) M
				Signature of Ronald DeShawn BLANTON
Date:			, , <u>, , , , , , , , , , , , , , , , , </u>	
				Signature of Rao H. DESINENI
Date:	4/2	104.75	<u> </u>	
		/:£ 400	WGNOD: I I	Signature of Woiciech MALY
		(if Ass	IGNOK is a legal entit	ty, complete the following information)
				(type or print the name of the above person authorized to sign on behalf of ASSIGNOR
				Title
Note: prima fa	No witnessii cie evidence d	ng, notarizati of execution.	on or legalization is nece 35 USC 261. Use next p	essary. If the assignment is notarized or legalized, then it will only be age if notarization is desired.
			☐ Notarization o	or Legalization Page Added.

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**RECORDED: 06/15/2010**