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, FC	DRM PTO-1595 . JUN	1 7 2004 K	06-24-2	_		U.S. Department Patent and Trader Attorney Docket N Attorney Custome	nark Office	
	Director of the G.S.			63	iil St	op Assignment R	ecordation Services	
1.	Name of conveying Thomas J. KELLY Daniel C. WOOD Alan L. FERGUSO Paul W. BIERDEM Brian L. JENKINS Trent R. MEISS Andrew J. SWANS	g party(ies): 6·/7- on IAN	04	2. Name:		ddress of receiving	party(ies):	
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No			Internal	Internal Address:				
3.	Nature of conveya	nce:		Street A	Street Address: 100 N.E. Adams Street			
×	Assignment	☐ Merger		City:	Peoria			
	Security Agreement	☐ Change	of Name	State:	IL	Zip Code:	61629	
Execution	Other:	2004		Addition	al name(s) &	Address(es) attach	ed?	
LACOUR	Way 20	, 2004			☐ Yes	⊠ No		
4.	Application numbe the application:	r(s) or patent numl	per(s): If this document is b	eing filed to	gether with a	new application, th	ne execution date of	
Α.	Patent Application	Number(s):		В.	Patent Numb	per(s):		
	10/646,716			Ì				
		Additio	nal numbers attached?	Yes	⊠ ∧	lo		
5.	Name and address concerning docum			6.	Total numbe involved:	r of applications an	d registrations	
Name:	Christopher P. Isa	aac		7.	Total fee (37	CFR 3.41): \$40		
/2004 BSAYASI1 00000019 10646716				Enclose	d (Please charge d	eficiency to deposit		
:8021		40.00 DP			account)		
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.				Authoria	zed to be charged t	to deposit account		
Street A		Street, N.W.		7				
City:	Washingto	n, D.C.		1				
State:		Zip:	20005-3315	8.	Deposit Acco	ount No.: <u>06-0916</u>		
9.	Statement and sign	nature.						
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.								
						l = 4°	7. 2004	
	Frank A. Italiano, F	Reg. No 53,056	Sign	ature		June 1 Da		
Total number of pages including cover sheet, attachments and documents: 6								
Total frames of pages including cover sheet, attachments and documents.								

ASSIGNMENT

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

SYSTEMS AND METHODS FOR PERFORMING PROTOCOL CONVERSIONS IN A WORK MACHINE

for which We executed an application for United States Letters Patent on August 25, 2003 (U.S. Application Serial No. 10/646,716) and for which U.S. Provisional Application No. 60/483,915 was filed on July 2, 2003, 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, my/our entire right, title, and interest in and to this invention, provisional application Serial No. 60/483,915 filed July 2, 2003, 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 I/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.

FULL NAME OF SOLE OR FIRST ASSIGNOR Thomas J. Kelly	ASSIGNOR'S SIGNATURE	May 26, 2004
ADDRESS		CITIZENSHIP
411 W. Westfield Ct., Dunlap, IL 61525		us

Page 1 of 5

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1. WITNESS NAME Marcia L. Porcher Mancia Z. Doucher ADDRESS 5004 N. Longview Pl., Provia Heights, Il Lellolb	S126/04 CITIZENSHIP USA
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2. WITNESS NAME EFFREY L. FINIEY WITNESS SIGNATURE & Junley	5/26/04
ADDRESS HAME LIFT WITNESS SIGNATURE & LINEY STREET LINEY STREET LINEY STREET LINEY STREET STR	CITIZENSHIP

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Alan L. Ferguson	ASSIGNOR'S SIGNATURE	DATE 5/24/07
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Page 3 of 5

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5. FULL NAME OF FIFTH ASSIGNOR, IF ANY Brian L. Jenkins	ASSIGNOR'S SIGNATURE Jerkins	DATE 5/26/04
ADDRESS		CITIZENSHIP
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1. WITNESS NAME Marcia L. Pouchcy	WIRNESS SIGNATURE Y. Bucher	SIZL OU
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6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Trent R Meiss	ASSIGNOR'S SIGNATURE	DATE
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Page 4 of 5

6. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Andrew J. Swanson	ASSIGNOR'S SIGNATURE	DATE 5/26/04
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JEFFREY L. FINLEY	WITNESS SIGNATURE Linky	3/26/04
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RECORDED: 06/17/2004