To the Director of Patents and Treatemarks: Please sword the attached document copy (with signed English annalistion If needed?) 1. Name of conveying party(iee): 2. Jai Wook SHIN 3. Kyoung Chool HONG Additional name(s) of conveying party(iee) attached? Yes Mon Yes Mon Additional name(s) of conveying party(iee) attached? Yes Mon Additional name(s) of conveyance: Assignment	To the Director of Parama and T	_
1. Jim Woo LEE 2. Jis Wook SHIN 3. Kyoung Cheel HONG Additional name(s) of conveying party(ies) attached? Yes No Name: VOLVO CONSTRUCTION PQUIPMENT HOLDING SWEDEN AB Address: SE631 85 ESKILSTUNA SWEDEN	(With Signed English tran	ase record the attached document copy slation if needed).
1. Jin Wook LEF 2. Jai Wook SHIN 3. Kyoung Cheol HONG Additional name(s) of conveying party(ies) attached? Yes \overline{\text{VOLVO CONSTRUCTION EQUIPMENT HOLDING SWEDEN AB}} Additional name(s) of conveying party(ies) attached? Additional name(s) of conveying party(ies) attached? Additional name(s) Additional name(s) & address: SE631 85 ESKILSTUNA SWEDEN Additional name(s)	Name of conveying party(ies):	2. Name and address of receiving party (iew)
Yes ⊠ No Nature of conveyance:	2. Jai Wook SHIN	Name: VOLVO CONSTRUCTION EQUIPMENT
Assignment	Additional name(s) of conveying party(les) attached? \[\sum_{Yes} \omega_{No} \]	Address: SE631 85 ESKILSTUNA SWEDEN
2. 12" February 2009 3. 12" February 2009 3. 12" February 2009 Application number(s) or patent number(s) Being filed together with a new application. Patent Application No.(s): 12/389,395 / Filed: February 20, 2009 Patent No.(s): Confirmation No.: 3188 Additional numbers attached? Yes No Name and address of party to whom correspondence concerning comment should be mailed: John Richards Indexs: Ladas & Party LLP 26 West 61" Street New York, N.Y. 10023 (fax) (212) 246-8959 Authorized to be charged in whole or in part to: 8. Deposit account number: 12-0425 Total number of pages including coversheet, attachments and	Assignment	☐ Yes ⊠ No
Additional numbers attached?	2. 12 th February 2009 3. 12 th February 2009	
Patent Application No.(s): 12/389,395 / Filed: February 20, 2009 Confirmation No.: 3188 Additional numbers attached? Yes No Name and address of party to whom correspondence concerning 6. Total number of applications and patents involved: ame: John Richards ddress: Ladas & Parry LLP	☐ Being filed together with a	new application
Name and address of party to whom correspondence concerning 6. Total number of applications and patents involved: ame: John Richards I	Patent Application No.(s): 12/389.395 / Filed: February 20, 200	
ame: John Richards ddress: Ladas & Parry LLP 26 West 61st Street New York, N.Y. 10023 (fax) (212) 246-8959 Total recount number: 12-0425 Signature: In Richards Total number of pages including coversheet, attachments, and	Additional numbers attached? 🗆 Yo	es ⊠ _{No}
Address: Ladas & Parry LLP 26 West 61* Street New York, N.Y. 10023 (fax) (212) 246-8959 7. Total fee (37 CFR 3.41) 1 @ \$40.00 cach Check Enclosed Authorized to be charged in whole or in part to: 8. Deposit account number: 12-0425 Signature: In Richards Total number of pages including coversheet, attachments, and	Name and address of party to whom correspondence concerning ocument should be mailed:	6. Total number of applications and patents involved:
Signature: In Richards In Person Signing Signature Total number of pages including coversheet, attachments, and	ddress: Ladas & Parry LLP 26 West 61st Street New York, N.Y. 10023	7. Total fee (37 CFR 3.41) _1 @ \$40.00 cach
Signature: In Richards In Richards In Person Signing Signature February 26, 2009 Date Total number of pages including coversheet, attachments, and		
Total number of pages including coversheet, attachments, and	Signature:	
Total number of pages including coversheet, attachments, and		
	Total number of pages including coversheet, attachments, and documents:	7

(Assignment (Document) Cover Sheet REEL: 022325 FRAME: 0891

USPTO

2/20/2009 9:04:51 PM PAGE 4/004 Fax Server

:GERALDINE MARTI COMPANY:26 WEST 615T STREET

<u> </u>	PATENT ASSIGNMENT		
Electronic Version v1.1 Stylesheet Version v1.1	02/20/2009 500786470		
SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT	<u> </u>	
CONVEYING PARTY DATA			
	Name Execution D		
Man Suk JEON	02/12/2009	ate	
RECEIVING PARTY DATA			
Name: VOLVO CONS	ISTRUCTION EQUIPMENT HOLDING SWEDEN AB		
Street Address: SE-631	THE COLUMN THOU DING SWEDEN AB		
City: 85 ESKILSTU	JNA		
State/Country: SWEDEN			
Property Type Property Type	Number		
Application Number: 12389395			
Phone: 212-708-1 Email: martig@la Correspondent Name: Geraldine Address Line 1: 26 West 6	Mall when the fax attempt is unsuccessful. 1803 adas.com	CH \$40.00 12389395	
TTORNEY DOCKET NUMBER: U 017626-7			
IAME OF SUBMITTER: John Richards			
Total Attachments: 3 source=4FL-IR5570-Exchange-0220200 source=4FL-IR5570-Exchange-0220200 source=4FL-IR5570-Exchange-0220200	09-102707#page2.tif		

PATENT REEL: 022325 FRAME: 0892

Practitioner's Docket NoU 017626-7	PATENT
	For: [] U.S. and/or [] Foreign Rights For: [] U.S. Application or [] U.S. Provisional Application
	For: [] U.S. Patent
	For: [] PCT Application By: Multiple Inventors
ASSIGNMENT OF INVE	NTION (MULTIPLE INVENTORS)
In consideration of the payment by ASSIGN receipt of which is hereby acknowledged, and	NEE to ASSIGNOR of the sum of One Dollar (\$1.00), the for other good and valuable consideration,
ASSIGNORS (Inventors):	
(type or print name of inventors)	
Jin Woo LEE	Address: 406-606 Buyoung Green Town 7 cha, Jellmimaeul, Sammun-ri, Jangyu-myeon, Kimhae-city, Republic of Korea
	Nationality: Republic of Korea
Jai Wook SHIN	Address: Ga-317, Volvo Dormitory, 33-1 Shinchon-dong, Changwon, Republic of Korea
· 	Nationality: Republic of Korea
Kyoung Cheol HONG	Address: Changjodong-211, Volvo Dormitory, 33-1
	Shinchon-dong, Changwon, Republic of Korea
	Nationality: Republic of Korea
Added page(s) for signature by subsequent in	inventors. Number of pages added

REEL: 022325 FRAME: 0893

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

Recorde	d on	Reel Frame	
hereby sells, ASSIGNEE	assigns and transfers to		
Volvo Const	ruction Equipment Holding Swede	en AB SE-631 85 Eskilstuna S	Sweden
(type or print no	ume of ASSIGNEE)	Address	
Nationality		Sweden	
•	ccessors, assigns and legal represed	ntatives of the ASSIGNEE	
	(complete c	ne of the following)	
[x] [] for the United	the entire right, title and interest an undivided	percent (%) right, title and inter	rest
	(check the following box, if fo	reign rights are also to be assigned)	
[]	and in all foreign countries, inclu improvements which are disclose	ding all rights to claim priority, in and to and in the invention entitled:	ny and all
UPPER FR	AME FOR CONSTRUCTION EC	QUIPMENT	
Name of inv	entor(s) Jin Woo LEE, Jai Wo	ook SHIN, Kyoung Cheol HONG	
and all it is), (b). (c), (d). (e), (f) or (g))	
(a) (b)	Not yet filed U.S. patent a Not yet filed U.S. provision above-entitled invention To comply with 3' ASSIGNOR signi	pplication executed on even date herewith pplication executed on an application naming the above inventors of C.F.R. 3.21 for recordal of this assignment below, hereby authorize and request my filing date and application number when the application of the second secon	(s) for the
(d) [U.S. patent or provisional pro	patent application no.	
	International application no U.S. patent no. A change of address patent maintenance	o. PCT//	garding

REEL: 022325 FRAME: 0894

(also check (g), if foreign application(s) is also being assigned)

and any legal equivalent thereof in a foreign country, including the right to [] (g) claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

<u>Jin Woo LEE</u> (type name of Assignor)

Jai W<u>ook SHIN</u> (type name of Assignor)

Kyoung Cheol HONG (type name of Assignor)

Tin woo Lee this 12th of Feb. 2009
Signature of ASSIGNOR date of signing

This 12th of Feb. 2009
Signature of ASSIGNOR date of signing

Lyoung Charl Hong this 12th of Feb. 2009

Signature of ASSIGNOR date of signing

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person authorized to sign on behalf of ASSIGNOR)

Title

NOTE:

No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

[] Notarization or Legalization Page Added.

RECORDED: 02/26/2009

REEL: 022325 FRAME: 0895