503331453 06/02/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3378071

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARCUS NILS GUNNAR ROTHOFF	02/17/2015
ERIK COELINGH	02/17/2015
ANDERS TYLMAN-MIKIEWICZ	03/17/2015
DOUGLAS HALL FRASHER	02/18/2015
PER RODJER	02/18/2015
JESPER ANDREASSON	02/18/2015
JONAS SODERQVIST	02/23/2015

RECEIVING PARTY DATA

Name:	VOLVO CAR CORPORATION	
Street Address:	ASSAR GABRIELSSONS VAEG	
City:	GOTHENBURG	
State/Country:	SWEDEN	
Postal Code:	SE-405 31	

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	14633462		

CORRESPONDENCE DATA

Fax Number: (248)358-3351

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2483584400

Email: mkatirtzidakis@brookskushman.com

Correspondent Name: BROOKS KUSHMAN

Address Line 1: 1000 TOWN CENTER, TWENTY-SECOND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075

ATTORNEY DOCKET NUMBER:	VCC0330PUSA
NAME OF SUBMITTER:	JEFFREY M. SZUMA
SIGNATURE:	/Jeffrey M. Szuma/
DATE SIGNED:	06/02/2015

PATENT 503331453 REEL: 035764 FRAME: 0309

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 10

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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR AUTONOMOUS Title of Invention DRIVING, IN A VEHICLE HAVING AUTONOMOUS DRIVING CAPABILITIES As a below named inventor, I hereby declare that: This declaration is directed to: The attached application, or X United States application or PCT international application number ____ filed on <u>Feb. 27, 2015</u> 14/633,462 insertion of the application filing date and number when they become known.) The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56. NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and set over to Volvo Car Corporation, a corporation organized and existing under the laws of the state or country of Sweden, and having a place of business at Assar Gabrielssons Vaeg, SE-405 31, Gothenburg, Sweden, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified application including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to said inventions and discoveries in all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-inpart, divisionals, reexaminations and reissue applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over. And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both. LEGAL NAME OF INVENTOR Date: 2015 - 02 - 17 Marcus Nils Gunnar ROTHOFF Inventor: Signature: Inventor: Erik COELINGH Date: Signature:

Page 1 of 2 (Supplemental Sheet with Additional Joint Inventors is attached if necessary)

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attomory Doglest Number VCC0220DITCA		
Attorney Docket Number VCC0330FO3A	Attorney Docket Number	VCC0330PUSA

APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR AUTONOMOUS

Date:

SUPPLEMENTAL SHEET FOR ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention

Legal Name of Additional Joint Inventor:

Inventor:

Signature:

Additional Inventors Page 2

	DRIVING, IN A VEHICLE HAVING AU	ONOMOUS DIGVING	CAPABILITIES
Legal Na	ne of Additional Joint Inventor:		
Inventor:	Anders TYLMAN-MIKIEWICZ	Date:	
Signature:			
Legal Na	ne of Additional Joint Inventor:		
Inventor:	Douglas Hall FRASHER	Date:	9/18/2015
Signature:	Ill It The		
Legal Nai	ne of Additional Joint Inventor:		
Inventor:	Per RODJER	Date:	
Signature:		The same state of the same sta	
Legal Na	ne of Additional Joint Inventor:		
	A LATERAN OF THE PARTY OF THE P		
Inventor:	Jesper ANDREASSON	Date:	
Signature:			
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Legal Nar	ne of Additional Joint Inventor:		
Inventor:	Jonas SODEROVIST	Date:	
Signature:			
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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR AUTONOMOUS Title of Invention DRIVING, IN A VEHICLE HAVING AUTONOMOUS DRIVING CAPABILITIES As a below named inventor, I hereby declare that: This declaration is directed to: The attached application, or United States application or PCT international application number X 14/633,462 filed on Feb. 27, 2015 insertion of the application filing date and number when they become known.) The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56. NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I do nereby assign, sell and set over to Volvo Car Corporation, a corporation organized and existing under the laws of the state or country of Sweden, and having a place of business at Assar Gabrielssons Vacg, SE-405 31. Gothenburg, Sweden, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified application including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to said inventions and discoveries in all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-inpart, divisionals, reexaminations and reissue applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over. And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both. LEGAL NAME OF INVENTOR Marcus Nils Gunnar ROTHOFF Inventor: Signature: 17 FEB. 2015 Inventor: Signature: Page 1 of 2 (Supplemental Sheet with Additional Joint Inventors is attached if necessary)

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attorney Docket Number VCC0330PUSA	
Attorney Docket Number VCC0330PUSA	

Additional Inventors Page 2

Title of Invention APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR ACTOROMOUS DRIVING CAPABILITIES APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR ACTOROMOUS DRIVING CAPABILITIES					
Legal Na	me of Addition	al Joint Inventor:			
Inventor:	Anders TYLMAN-MIKIBWICZ Date: 3/17/2015				
Signature:	Cr) Tall	·(e-			
Legal Name of Additional Joint Inventor:					
Inventor:	Douglas Hall F	RASHER	·	Date: _	
Signature:					
T l Ni	£ A J J ; 4 ; o	al Taint Inventous			
Inventor:	Per RODJER	al Joint Inventor:	1	Date:	
Signature:					
Legal Name of Additional Joint Inventor:					
Inventor:		ASSON	-	Date: _	
Signature:					
Legal Nai	me of Addition	al Joint Inventor:			
Inventor:	Jonas SODER	OVIST	***************************************	Date: _	
Signature:					
Legal Na	me of Addition	al Joint Inventor:			
Inventor:	· ·			Date: _	
Signature:					

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)						
APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR AUTONOMOUS DRIVING CAPABILITIES						
As a below named inventor, I hereby declare that:						
This declaration i	s directed to:					
	The attached application, or					
X	United States application or PCT international application number 14/633,462 filed on Feb. 27, 2015 [I hereby authorize the insertion of the application filing date and number when they become known.]					
The above-identified application was made or authorized to be made by me.						
I believe that I an	the original inventor or an original joint inventor of a claimed invention in the application.					
I hereby state that	I have reviewed and understand the contents of the above-identified specification, including the claims.					
I am aware of the as defined in 37 C	duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability. F.R. § 1.56.					
over to Volvo Ca place of business successors, assign discoveries in the representatives to its or their own in successors, assign and discoveries in	ORE, for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and see a Corporation, a corporation organized and existing under the laws of the state or country of Sweden, and having a state Assar Gabrielssons Vaeg, SE-405 31, Gothenburg, Sweden, hereinafter referred to as the ASSIGNEE, it is or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the inventions are above-identified application including the right of said ASSIGNEE, its successors, assigns or other legal make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in ame or names, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its or other legal representatives, all rights of priority, including any provisional applications, in and to said invention all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-in execuminations and reissue applications.					
applications for L	ee for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including etters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE igns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.					
And I hereby repr	esent and warrant that I have not granted any rights inconsistent with the rights granted herein.					
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine on the more than five (5) years or both.					
LEGAL NAME	OF INVENTOR					
Inventor: M	arcus Nils Gunnar ROTHOFF Date:					
Signature:						
Inventor: En						
Signature:						
Page 1 of 2 (Sup)	plemental Sheet with Additional Joint Inventors is attached if necessary)					

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

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Additional Inventors Page 2

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Title of Invention APPARATUS AND METHOD FOR DRIVING, IN A VEHICLE HAVIN	G AUTONOMOUS DRIVING CAPABILITIES
Legal Name of Additional Joint Inventor:	
Inventor: Anders TYLMAN-MIKIEWICZ Signature:	Date:
Legal Name of Additional Joint Inventor:	
Inventor: Douglas Hall FRASHER	Date:
Signature:	
Legal Name of Additional Joint Inventor: Inventor: Per RODJER Signature:	Date: FEB 18, 2045
Legal Name of Additional Joint Inventor: nventor: Jesper ANDREASSON ignature:	Date:
egal Name of Additional Joint Inventor: ventor:	Date:
gal Name of Additional Joint Inventor:	
entor:	Date:
palure:	

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)					
Title of Invention		APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR AUTONOMOUS DRIVING, IN A VEHICLE HAVING AUTONOMOUS DRIVING CAPABILITIES			
As a below name	d inventor, I here	by declare that:			
This declaration	is directed to:				
	The attached application, or				
X	United States application or PCT international application number 14/633,462 filed on Feb. 27, 2015 filed on insertion of the application filing date and number when they become known.)				
The above-identi	fied application v	vas made or authorized to be made	by me.		
I believe that I ar	n the original inv	entor or an original joint inventor	of a claimed invention	in the application.	
I hereby state that	t I have reviewed	and understand the contents of th	e above-identified spec	ification, including the claims.	
I am aware of the as defined in 37		to the U.S. Patent and Trademark	Office all information	known to me to be material to patentability	
over to Volvo C place of busines successors, assig discoveries in t representatives to its or their own a successors, assig and discoveries	ar Corporation, a ss at Assar Gabons or other legal the above-identification make application ame or names, on or other legal in all countries, is	corporation organized and existing telessons Vaeg, SE-405 31, Gother representatives, my entire right, the distribution including the rights and to receive Letters Patent for in my name, at its or their electropresentatives, all rights of priori	ng under the laws of the nenburg, Sweden, here the and interest, domes ght of said ASSIGNI resaid inventions and dition, and I hereby assisty, including any provi	knowledged, I do hereby assign, sell and set the state or country of <u>Sweden</u> , and having a binafter referred to as the ASSIGNEE, its tic and foreign, in and to the inventions and EE, its successors, assigns or other legal iscoveries in any and all foreign countries in gn, sell and set over to said ASSIGNEE, its sional applications, in and to said inventions date hereof, continuations, continuations-in-	
And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.					
And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.					
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.					
LEGAL NAME OF INVENTOR					
Inventor: N	1arcus Nils Gunn	ar ROTHOFF	Date: _		
Signature:					
Inventor: E	rik COELINGH		Date: _		
Signature:			and the second s		
	plemental Sheet	with Additional Joint Inventors is	attached if necessary)		
Notes An Annlies	tion Data Sheet (P	FO/SB/14 or equivalent) including na	ming the entire inventive	entity must accompany this form	

Attorney Docket Number 1 2 2 2 2 2 1 2 2 1	Attorney Docket	Number	VCC0330P	USA
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Additional Inventors Page 2

Title of Invention		APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR AUTONOMOUS DRIVING, IN A VEHICLE HAVING AUTONOMOUS DRIVING CAPABILITIES				
Legal Nam	ne of Addition	al Joint Inventor:				
Inventor:	Anders TYLMA	N-MIKIEWICZ	Date:			
Signature:						
Legal Nar	ne of Addition	al Joint Inventor:				
Inventor:	Douglas Hall Fl	RASHER	Date:			
Signature:						
Logal No.	mo of Addition	nal Joint Inventor:				
		iai Joint Inventor:				
Inventor:	Per RODJER		Date:			
Signature:						
Legal Na	me of Addition	nal Joint Inventor:				
Inventor:	Jesper ANDRI	EASSON	Date:	02/18/2015		
Signature:		pr-/fr				
Legal Na	me of Addition	nal Joint Inventor:				
Inventor:						
Signature:	_Jonas SODER		Date			
Signature:						
Legal Na	me of Additio	nal Joint Inventor:				
Inventor:						
Signature:				:		
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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) APPARATUS AND METHOD FOR PREDICTION OF TIME AVAILABLE FOR AUTONOMOUS Title of Invention DRIVING, IN A VEHICLE HAVING AUTONOMOUS DRIVING CAPABILITIES As a below named inventor, I hereby declare that: This declaration is directed to: The attached application, or X United States application or PCT international application number 14/633,462 filed on Feb. 27, 2015 (I hereby authorize the insertion of the application filing date and number when they become known.) The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56. NOW. THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and set over to Volvo Car Corporation, a corporation organized and existing under the laws of the state or country of Sweden, and having a place of business at Assar Gabrielssons Vaeg, SE-405 31, Gothenburg, Sweden, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified application including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to said inventions and discoveries in all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-inpart, divisionals, reexaminations and reissue applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over. And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both. LEGAL NAME OF INVENTOR Marcus Nils Gunnar ROTHOFF Date: Inventor: Signature: Erik COELINGH Inventor: Date: Signature:

Page 1 of 2 (Supplemental Sheet with Additional Joint Inventors is attached if necessary)

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Additional Inventors
Page 2

Title of In	vention A D	PPARATUS AND I RIVING, IN A VEHI	METHOD FOR PREDIC CLE HAVING AUTONO!	TION OF TIMI MOUS DRIVING	E AVAILABLE FOR AUTONOMOU CAPABILITIES
Legal Nai	me of Additional .	loint Inventor:			
Inventor:	Anders TYLMAN-	MIKIEWICZ		Date:	
Signature:					
Legal Nai	ne of Additional J	oint Inventor:			
Inventor:	Douglas Hall FRAS	<u>HER</u>		Date:	
Signature:					
Legal Nat	ne of Additional J	oint Inventor:			
Inventor:	Per RODJER			Date:	
Signature:					
Legal Nai	ne of Additional .	loint Inventor:			
Inventor:	Jesper ANDREAS	SON		Date:	
Signature:					
Legal Na	me of Additional	Joint Inventor:			
Inventor:	Jonas SODERØVI			Date:	52/23/15
Signature:	You	18 Jode	ergv 1		
	CANDE CONTRACTOR	Ioint Invantore			
	me of Additional	JUME MIVERIUL.		Date:	
Inventor: Signature:					
orginature.	100		<u>-</u>		