

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4057791

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Hiroyuki YAMAKAWA	09/07/2016
Kenichiro SATO	09/05/2016
Shinji ICHIKAWA	09/08/2016
Naoki GORAI	09/07/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EQUOS RESEARCH CO., LTD.
<b>Street Address:</b>	AKIHABARA DAIBIRU 7F
<b>Internal Address:</b>	18-13, SOTOKANDA 1-CHOME, CHIYODA-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	1010021
<b>Name:</b>	TOYOTA JIDOSHA KABUSHIKI KAISHA
<b>Street Address:</b>	1, TOYOTA-CHO
<b>City:</b>	TOYOTA-SHI, AICHI
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	4718571
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15127217
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)836-2787
<i>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.</i>	
<b>Phone:</b>	703-836-6400
<b>Email:</b>	email@oliff.com
<b>Correspondent Name:</b>	JAMES A. OLIFF
<b>Address Line 1:</b>	OLIFF PLC
<b>Address Line 2:</b>	P.O. BOX 320850
<b>Address Line 4:</b>	ALEXANDRIA, VIRGINIA 22320-4850

<b>ATTORNEY DOCKET NUMBER:</b>	173132
<b>NAME OF SUBMITTER:</b>	KIMBERLY SCOTT
<b>SIGNATURE:</b>	/Kimberly C. Scott/ for James A. Oliff
<b>DATE SIGNED:</b>	09/19/2016
<b>Total Attachments: 4</b> source=4444215_1#page1.tif source=4444215_1#page2.tif source=4444215_1#page3.tif source=4444215_1#page4.tif	

**ASSIGNMENT**

	Insert	(1) <u>Hiroyuki YAMAKAWA</u>	(2) <u>Kenichiro SATO</u>
(1-8)	Legal Name(s)	(3) <u>Shinji ICHIKAWA</u>	(4) <u>Naoki GORAI</u>
	of Inventor(s)	(5) _____	(6) _____
		(7) _____	(8) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9) <u>EQUOS RESEARCH CO., LTD.</u>	
(10)	Insert Address of Assignee	(10) <u>Akihabara Daibiru 7F, 18-13, Sotokanda 1-chome, Chiyoda-ku Tokyo 1010021 Japan</u>	

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11) <u>POWER TRANSMISSION SYSTEM</u>	
		(Attorney Docket No. _____), filed on even date herewith or as	

(12)	Alternative Identification for filed applications	(12) U.S. Application Number _____	
------	---	------------------------------------	--

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date	<u>September 7 2016</u>	Inventor Signature	<u>Hiroyuki Yamakawa</u>	(SEAL)
Date	<u>September 5 2016</u>	Inventor Signature	<u>Kenichiro Sato</u>	(SEAL)
Date	<u>September 7 2016</u>	Inventor Signature	<u>Naoki Gorai</u>	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)

**ASSIGNMENT**

Insert (1) Hiroyuki YAMAKAWA (2) Kenichiro SATO  
 (1-8) Legal Name(s) (3) Shinji ICHIKAWA (4) Naoki GORAI  
 of Inventor(s) (5) \_\_\_\_\_ (6) \_\_\_\_\_  
 (7) \_\_\_\_\_ (8) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee (9) EQUOS RESEARCH CO., LTD.  
 (10) Insert Address of Assignee (10) Akihabara Daibiru 7F, 18-13, Sotokanda 1-chome, Chiyoda-ku Tokyo 1010021 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number (11) POWER TRANSMISSION SYSTEM  
 (Attorney Docket No. \_\_\_\_\_), filed on even date herewith or as

(12) Alternative Identification for filed applications (12) U.S. Application Number \_\_\_\_\_

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date September 8, 2016 Inventor Signature Shinji Ichikawa (SEAL)  
 Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)

**ASSIGNMENT**

	Insert	(1) <u>Hiroyuki YAMAKAWA</u>	(2) <u>Kenichiro SATO</u>
(1-8)	Legal Name(s) of Inventor(s)	(3) <u>Shinji ICHIKAWA</u>	(4) <u>Naoki GORAI</u>
		(5) _____	(6) _____
		(7) _____	(8) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9) <u>TOYOTA JIDOSHA KABUSHIKI KAISHA</u>
(10)	Insert Address of Assignee	(10) <u>1, Toyota-cho, Toyota-shi, Aichi 4718571 Japan</u>

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11) <u>POWER TRANSMISSION SYSTEM</u>
------	---	---------------------------------------

(Attorney Docket No. \_\_\_\_\_), filed on even date herewith or as

(12)	Alternative Identification for filed applications	(12) U.S. Application Number _____
------	---	------------------------------------

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date	<u>September 7 2016</u>	Inventor Signature	<u>Hiroyuki Yamakawa</u>	(SEAL)
Date	<u>September 5 2016</u>	Inventor Signature	<u>Kenichiro Sato</u>	(SEAL)
Date	<u>September 7 2016</u>	Inventor Signature	<u>Naoki Gorai</u>	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)

**ASSIGNMENT**

Insert (1) Hiroyuki YAMAKAWA (2) Kenichiro SATO  
 (1-8) Legal Name(s) (3) Shinji ICHIKAWA (4) Naoki GORAI  
 of Inventor(s) (5) \_\_\_\_\_ (6) \_\_\_\_\_  
 (7) \_\_\_\_\_ (8) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby docs assign, transfer and set over to

(9) Insert Name of Assignee (9) TOYOTA JIDOSHA KABUSHIKI KAISHA  
 (10) Insert Address of Assignee (10) 1, Toyota-cho, Toyota-shi, Aichi 4718571 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number (11) POWER TRANSMISSION SYSTEM  
 \_\_\_\_\_  
 (Attorney Docket No. \_\_\_\_\_), filed on even date herewith or as

(12) Alternative Identification for filed applications (12) U.S. Application Number \_\_\_\_\_  
 \_\_\_\_\_

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date	<u>September 8, 2016</u>	Inventor Signature	<u>Shinji Ichikawa</u>	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)

**PATENT**