PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3239156

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFF CULLMAN	06/20/2014
ZHESHENG JIANG	06/19/2014
BOGDAN KOZUL	07/08/2014

RECEIVING PARTY DATA

Name:	PARKER-HANNIFIN CORPORATION	
Street Address:	6035 PARKLAND BLVD	
City:	CLEVELAND	
State/Country:	ОНЮ	
Postal Code:	44124-4141	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14370795

CORRESPONDENCE DATA

Fax Number:

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: 216-621-1113

Email: bhyde@rennerotto.com

Correspondent Name: RENNER OTTO BOISSELLE & SKLAR, LLP

Address Line 1: **1621 EUCLID AVENUE** Address Line 2: NINETEENTH FLOOR Address Line 4: CLEVELAND, OHIO 44115

ATTORNEY DOCKET NUMBER: PA19P0045WOUSA NAME OF SUBMITTER: DON W. BULSON SIGNATURE: /DWB/ **DATE SIGNED:** 02/24/2015 This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 12

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Docket No.	PA19P0045WOUSA	PATENT (PARKER)

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION

Title of Invention:	HYDRAULIC HYBRID SWING DRIVE SYSTEM FOR EXCAVATORS
Title of Invention:	HYDRAULIC HYBRID SWING DRIVE SYSTEM FOR EXCAVATORS

As a below named inventor, I hereby declare that this declaration and assignment are directed to:

Application No. (Express Mail Label No.)	PCT/US13/020235
Filing Date (Deposit Date)	January 4, 2013
Amended on (if applicable)	

or, if no application is identified above, the attached application.

DECLARATION

The above application was made or authorized to be made by me.

I believe that I am the original or an original joint inventor of a claimed invention in the application.

My residence, mailing address and citizenship are as stated below next to my name.

I have reviewed and understood the contents of the application, including the claims.

I hereby acknowledge that any willful false statement made in this declaration is punishable under Section 1001 of Title 18 of the United States Code by fine or imprisonment of not more than five (5) years, or both.

DOMESTIC PRIORITY CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, the benefit under 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	PATENT NUMBER

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. 119(e)

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) that is/are listed below.

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (day, month, year)
61/582,862	4 January 2012

FOREIGN PRIORITY CLAIM

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, priority benefits under 35 U.S.C. § 119 (a)-(d) or (f), § 172 or § 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or § 365(a) of any PCT international application(s) which designated at least one country other than the United States of America, that is/are listed below, and have also

identified below any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s) or any PCT international application(s) having a filing date before that of the application(s) on which priority is claimed.

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED
WO	PCT/US13/020235	4 January 2013	

DUTY OF DISCLOSURE

I hereby acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, which in pertinent part states that information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or (2) it refutes, or is inconsistent with, a position the applicant takes in: (i) opposing an argument of unpatentability relied on by the Office, or (ii) asserting an argument of patentability. A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I have sold and assigned and hereby sell and assign to **Parker-Hannifin Corporation** ("Parker"), a company having a place of business at 6035 Parkland Boulevard Cleveland, Ohio 44124-4141, its successors and assigns, the entire right, title and interest to (i) said invention, (ii) said application, (iii) any and all provisional applications on which priority is claimed, any and all related patent applications in the United States or a country foreign thereto, including continuations, continuations-in-part, divisionals, renewals, conversions, substitutes, reexaminations, reissues, convention, international (PCT) and other applications based in whole or in part upon said invention or upon said applications, (iv) any and all patents, including renewals, reissues, certificates of reexamination and extensions thereof granted for said invention or upon said applications, for the full term or terms for which the same may be granted, and (v) all priority rights that are or may be predicated upon or arise from said invention, said applications and said patents.

If the U.S. application number and filing date are not set forth above, authorization is hereby given for any attorney of record in the subject patent application to insert below the application number and filing date information for this application when that information becomes available.

Application No.	14/370,795
Filing Date	July 7, 2014

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment and sale.

I authorize Parker to file in my own name or in its own name applications for patent in any country that are predicated upon or arise from said invention, said applications and said patents.

I appoint Parker as my common representative to represent me before all competent International authorities in connection with any international application predicated upon or arising from said invention, said applications and said patents.

I further covenant that Parker will, upon request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to me and will testify as to the same in any proceeding related thereto and will promptly execute and deliver to Parker, or the legal representative thereof, any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid U.S. patent and any foreign patents to Parker and to vest all rights hereby conveyed to Parker as fully and entirely as the same would have been held by me if this Assignment had not been made.

I agree that this assignment shall be construed in accordance with the law of the state/country in which the first above-listed Assignee is located as above indicated, and without regard to its conflicts of laws provisions.

Legal Name of Inv	entor:	Jeff Cullman		
Inventor's signature:	W	Cullman	Date:	4/20/2014
Residence: (City & State	e/Country	Wadsworth, OH	Citizenship:	US
Post Office Address:	450 Whites Wadsworth			
Legal Name of Inv	entor:	Hao Zhang		
Inventor's signature:			Date:	
Residence: (City & State	e/Country):	Twinsburg, OH	Citizenship:	CA
Post Office Address:	2632 Myricl Twinsburg,			
Legal Name of Inv	entor:	Richard D. Kimpel		
Inventor's signature:			Date:	
Residence: (City & Stat	e/Country):	Middleburg Hts., OH	Citizenship:	us
Post Office Address:	19250 Fowles Rd. Middleburg Hts., OH 44130			
Legal Name of Inv	ventor:	Zhesheng Jiang		
Inventor's signature:			Date:	
Residence: (City & Stat	te/Country):	Solon, OH	Citizenship:	CN
Post Office Address: 6975 Navajo Trail Solon, Ohio 44139				
Legal Name of Inv	ventor:	Raymond Collett		
Inventor's signature:			Date:	
Residence: (City & Stat	te/Country):	Put-In-Bay, OH	Citizenship:	US
Post Office Address:	st Office Address: 840 Trenton Avenue Put-In-Bay, OH 43456			

Legal Name of In	ventor:	Bogdan Kozul		
Inventor's signature:			Date:	
Residence: (City & Sta	te/Country):	Seven Hills, OH	Citizenship:	US
Post Office Address:	7159 Rustic Oval Seven Hills, OH 44131			

	T	
Docket No.	PA19P0045WOUSA	PATENT (PARKER)

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION

Title of Invention:	HYDRAULIC HYBRID SWING DRIVE SYSTEM FOR EXCAVATORS

As a below named inventor, I hereby declare that this declaration and assignment are directed to:

Application No. (Express Mail Label No.)	PCT/US13/020235	
Filing Date (Deposit Date)	January 4, 2013	
Amended on (if applicable)		-

or, if no application is identified above, the attached application.

DECLARATION

The above application was made or authorized to be made by me.

I believe that I am the original or an original joint inventor of a claimed invention in the application.

My residence, mailing address and citizenship are as stated below next to my name.

I have reviewed and understood the contents of the application, including the claims.

I hereby acknowledge that any willful false statement made in this declaration is punishable under Section 1001 of Title 18 of the United States Code by fine or imprisonment of not more than five (5) years, or both.

DOMESTIC PRIORITY CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, the benefit under 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	PATENT NUMBER

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. 119(e)

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) that is/are listed below.

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (day, month, year)
61/582,862	4 January 2012

FOREIGN PRIORITY CLAIM

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, priority benefits under 35 U.S.C. § 119 (a)-(d) or (f), § 172 or § 365(b) of any foreign application(s) for plant breeder's rights certificate(s), or § 365(a) of any PCT internation repulses 5517 FRAME at least one country other than the United States of America, that is less listed below and below and below.

identified below any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s) or any PCT international application(s) having a filing date before that of the application(s) on which priority is claimed.

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED
WO	PCT/US13/020235	4 January 2013	

DUTY OF DISCLOSURE

I hereby acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, which in pertinent part states that information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or (2) it refutes, or is inconsistent with, a position the applicant takes in: (i) opposing an argument of unpatentability relied on by the Office, or (ii) asserting an argument of patentability. A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I have sold and assigned and hereby sell and assign to **Parker-Hannifin Corporation** ("Parker"), a company having a place of business at 6035 Parkland Boulevard Cleveland, Ohio 44124-4141, its successors and assigns, the entire right, title and interest to (i) said invention, (ii) said application, (iii) any and all provisional applications on which priority is claimed, any and all related patent applications in the United States or a country foreign thereto, including continuations, continuations-in-part, divisionals, renewals, conversions, substitutes, reexaminations, reissues, convention, international (PCT) and other applications based in whole or in part upon said invention or upon said applications, (iv) any and all patents, including renewals, reissues, certificates of reexamination and extensions thereof granted for said invention or upon said applications, for the full term or terms for which the same may be granted, and (v) all priority rights that are or may be predicated upon or arise from said invention, said applications and said patents.

If the U.S. application number and filing date are not set forth above, authorization is hereby given for any attorney of record in the subject patent application to insert below the application number and filing date information for this application when that information becomes available.

Application No.	14/370,795
Filing Date	July 7, 2014

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment and sale.

I authorize Parker to file in my own name or in its own name applications for patent in any country that are predicated upon or arise from said invention, said applications and said patents.

I appoint Parker as my common representative to represent me before all competent International authorities in connection with any international application predicated upon or arising from said invention, said applications and said patents.

I further covenant that Parker will, upon request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to me and will testify as to the same in any proceeding related thereto and will promptly execute and deliver to Parker, or the legal representative thereof, any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, saparement and said Letters Patent which may be necessary or desirable to carry out the purpless here \$1.035017 FRAME: 0978

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid U.S. patent and any foreign patents to Parker and to vest all rights hereby conveyed to Parker as fully and entirely as the same would have been held by me if this Assignment had not been made.

I agree that this assignment shall be construed in accordance with the law of the state/country in which the first above-listed Assignee is located as above indicated, and without regard to its conflicts of laws provisions.

Legal Name of In	ventor:		Jeff Cullman		
Inventor's signature:				Date:	
Residence: (City & Sta	te/Country):	٧	Vadsworth, OH	Citizenship:	US
Post Office Address:	450 White Wadswort				
Legal Name of In	ventor:		Hao Zhang		
Inventor's signature:				Date:	
Residence: (City & Sta	te/Country):	Т	winsburg, OH	Citizenship:	CA
Post Office Address:	2632 Myrick L Twinsburg, Ol				
Legal Name of Inventor:			Richard D. Kimpel		
Inventor's signature:				Date:	
Residence: (City & State/Country):		N	liddleburg Hts., OH	Citizenship:	us
Post Office Address: 19250 Fowles Middleburg Hts					
Legal Name of Inv	/entor:		Zhesheng Jiang		
Inventor's signature:	0	80		Date:	06/19/2014
Residence: (City & Stat	e/Country):	S	olon, OH	Citizenship:	CN
Post Office Address: 6975 Navajo T Solon, Ohio 44		•			
			T		
Legal Name of Inv	entor:		Raymond Collett		
Inventor's signature:				Date:	
Residence: (City & Stat	e/Country):	Р	ut-In-Bay, OH	Citizenship:	US
Post Office Address:	840 Trenton Avenue Put-In-Bay, OH 43456				

Legal Name of In	ventor:	Bogdan Kozul			
Inventor's signature:			Date:		
Residence: (City & Sta	te/Country):	Seven Hills, OH	Citizenship:	US	
Post Office Address:	7159 Rustic Oval Seven Hills, OH 44131				

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Docket No.	PA19P0045WOUSA	PATENT (PARKER)

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION

Title of Invention:	HYDRAULIC HYBRID SWING DRIVE SYSTEM FOR EXCAVATORS
1	

As a below named inventor, I hereby declare that this declaration and assignment are directed to:

Application No. (Express Mail Label No.)	PCT/US13/020235
Filing Date (Deposit Date)	January 4, 2013
Amended on (if applicable)	

or, if no application is identified above, the attached application.

DECLARATION

The above application was made or authorized to be made by me.

I believe that I am the original or an original joint inventor of a claimed invention in the application.

My residence, mailing address and citizenship are as stated below next to my name.

I have reviewed and understood the contents of the application, including the claims.

I hereby acknowledge that any willful false statement made in this declaration is punishable under Section 1001 of Title 18 of the United States Code by fine or imprisonment of not more than five (5) years, or both.

DOMESTIC PRIORITY CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, the benefit under 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	PATENT NUMBER

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. 119(e)

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) that is/are listed below.

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (day, month, year)
61/582,862	4 January 2012

FOREIGN PRIORITY CLAIM

I hereby claim, on my behalf or on behalf of the below-identified assignee, i.e. Parker, priority benefits under 35 U.S.C. 8 119 (a)-(d) or (f) 8 172 or 8 365(b) of any foreign application(s) for parenty inventor's or

REEL: 035017 FRAME: 0981

identified below any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s) or any PCT international application(s) having a filing date before that of the application(s) on which priority is claimed.

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED
wo	PCT/US13/020235	4 January 2013	

DUTY OF DISCLOSURE

I hereby acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, which in pertinent part states that information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or (2) it refutes, or is inconsistent with, a position the applicant takes in: (i) opposing an argument of unpatentability relied on by the Office, or (ii) asserting an argument of patentability. A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I have sold and assigned and hereby sell and assign to Parker-Hannifin Corporation ("Parker"), a company having a place of business at 6035 Parkland Boulevard Cleveland, Ohio 44124-4141, its successors and assigns, the entire right, title and interest to (i) said invention, (ii) said application, (iii) any and all provisional applications on which priority is claimed, any and all related patent applications in the United States or a country foreign thereto, including continuations, continuations-in-part, divisionals, renewals, conversions, substitutes, reexaminations, reissues, convention, international (PCT) and other applications based in whole or in part upon said invention or upon said applications, (iv) any and all patents, including renewals, reissues, certificates of reexamination and extensions thereof granted for said invention or upon said applications, for the full term or terms for which the same may be granted, and (v) all priority rights that are or may be predicated upon or arise from said invention, said applications and said patents.

If the U.S. application number and filing date are not set forth above, authorization is hereby given for any attorney of record in the subject patent application to insert below the application number and filing date information for this application when that information becomes available.

Application No.	14/370,795
Filing Date	July 7, 2014

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment and sale.

I authorize Parker to file in my own name or in its own name applications for patent in any country that are predicated upon or arise from said invention, said applications and said patents.

I appoint Parker as my common representative to represent me before all competent International authorities in connection with any international application predicated upon or arising from said invention, said applications and said patents.

I further covenant that Parker will, upon request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to me and will testify as to the same in any proceeding related thereto and will promptly execute and deliver to Parker, or the legal representative thereof, any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof. A I EN I

REEL: 035017 FRAME: 0982

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid U.S. patent and any foreign patents to Parker and to vest all rights hereby conveyed to Parker as fully and entirely as the same would have been held by me if this Assignment had not been made.

I agree that this assignment shall be construed in accordance with the law of the state/country in which the first above-listed Assignee is located as above indicated, and without regard to its conflicts of laws provisions.

		1		
Legal Name of Inv	entor:	Jeff Cullman		
Inventor's signature:			Date:	
		Wadsworth, OH	Citizenship:	US
Post Office Address:	450 Whites Wadsworth	tone Circle , OH 44281		
Legal Name of Inv	/entor:	Hao Zhang		
Inventor's signature:			Date:	
Residence: (City & Sta	te/Country):	Twinsburg, OH	Citizenship:	CA
Post Office Address:				
	J			
Legal Name of In	ventor:	Richard D. Kimpel		
Inventor's signature:			Date:	
Residence: (City & Sta	ite/Country):	Middleburg Hts., OH	Citizenship:	US
Post Office Address:	19250 Fov Middleburg	vles Rd. g Hts., OH 44130		
Legal Name of In	ventor:	Zhesheng Jiang		
Inventor's signature:			Date:	
Residence: (City & Sta	ate/Country):	Solon, OH	Citizenship:	CN
Post Office Address: 6975 Navajo Trail Solon, Ohio 44139				
Legal Name of Ir	ventor:	Raymond Collett		
Inventor's signature:			Date:	
Residence: (City & St	ate/Country):	Put-In-Bay, OH	Citizenship:	US

Legal Name of Inventor:		Bogdan Kozul		
Inventor's signature:		an Thoul	Date:	7-8-2014
Residence: (City & State/Country):		Seven Hills, OH - HINCKLEY, OH	Citizenship:	US
Post Office Address: 7159 Rustic Oval 258 WALDEN RID Seven Hills, OH 44131 HINCKLEY ONIO			44233	
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PATENT REEL: 035017 FRAME: 0984

RECORDED: 02/24/2015