# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5103555

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
DALE M. ASHBY	02/18/2015
GINO G. BANCO	02/19/2015
RENE M. BELTRAN	08/21/2018
BETH S. KEIPER	08/13/2018
TOMAS E. CARRILLO	04/19/2015

## **RECEIVING PARTY DATA**

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

# **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14422108	

## **CORRESPONDENCE DATA**

**Fax Number:** (216)621-6165

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: cbader@rennerotto.com

Correspondent Name: DON W. BULSON (PARK) RENNER, OTTO, BOISS

Address Line 1: 1621 EUCLID AVENUE / 19TH FLOOR

Address Line 4: CLEVELAND, OHIO 44115

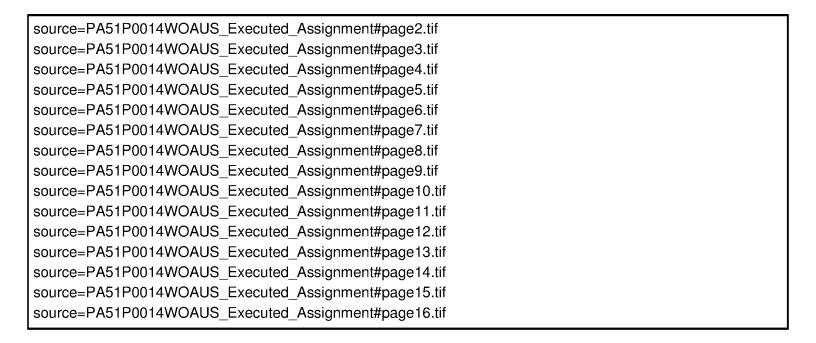
ATTORNEY DOCKET NUMBER: PA51P0014WOAUS	
NAME OF SUBMITTER:	MICHAEL P. WENDOLOWSKI
SIGNATURE:	/Michael P. Wendolowski/
DATE SIGNED:	08/22/2018

**Total Attachments: 16** 

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PATENT REEL: 046661 FRAME: 0859

505056800



PATENT REEL: 046661 FRAME: 0860 As a below named inventor, I hereby declare that this declaration and assignment are directed to:

Application No. (Express Mell Label No.)	
Filing Date (Deposit Date)	
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 filling 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, moreth, year)
61/684,171	17 August 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

COUNTRY	APPLICATION NUMBER	DATE OF FILING (489, month, year)	PROBITY NOT CLAIMED
WO	PCT/US2013/055597	19 August 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. § 1.58, 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.

#### ASSICHMENT

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.	14/422,108
Filing Date	February 17, 2015

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 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 Inventor: / / Dale M. Ashby					
Inventor's signature:		h M. Willy	Date:	2/18/15	
Residence: (City & Sta	te/Country):	Solon, OH	Citizenship:	us	
Post Office Address:	7562 Stoc Solon, OH	kwood Drive 44139			
			***************************************		
Legal Name of In	ventor:	Gino G. Banco			
Inventor's signature:	The state of the s	well of the state	Date:	2/19/15	
Residence: (City & Sta	te/Country):	Lyndhurst, OH	Cilizenship:	us	
Post Office Address:	1196 Irene Lyndhurst,				
***************************************	***************************************				
Legal Name of In	Legal Name of Inventor: Rene M. Beltran				
Inventor's signature:			Date:		
Residence: (City & State/Country): Los Angeles		Los Angeles, CA	Citizenship:	US	
Post Office Address;	Post Office Address: 2952 ½ W Avenue 35 Los Angeles, CA 90065				
Legal Name of In	/entor:	Beth Keiper			
inventor's signature: Date:					
Residence: (City & State/Country): San Bernardino, CA		Citizenship:	US		
Post Office Address: 974 W Marshell Blvd.					
San Bernardino, CA 92405					
Legal Name of Inventor: Luis Hemandez					
Inventor's signature: Date:					
Residence: (City & State/Country): Baldwin Park, CA Citizenship: US			US		
Post Office Address: 14129 Sandstone St. Baldwin Park, CA 91706					

Legal Name of Inventor:	Anthony Arispe		
Inventor's signature:	Date:		
Residence: (City & State/Country): F	tiverside, CA	Citizenship:	US
Posi Office Address: 1027 Cannon Rd. Riverside, CA 92506			

Legal Name of Im	entor:	Tomas E. Carrillo		
Inventor's signature:			Date:	
Residence: (City & Stat			Ottizenship:	sv
Post Office Address: 22234 S. Vermont Ave. Torrance, CA 90502				

Docket No.	PA51P0014WOAUS		PATENT (PARKER)
COMBINED DECL	ARATION AND ASSIGNMENT F	OR UTILI	TY OR DESIGN PATENT APPLICATION
Title of Invention:	SYRINGE HAVING A PISTON	1 WITH EV	MBEDDED RFID CHIP
As a below named ir	ventor, I hereby declare that this	declaration	on and assignment are directed to:
Application No. (Ex	press Mail Label No.)		
Filing Date (Deposit Date)			
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)
61/684,171	17 August 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

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED
WO	PCT/US2013/055597	19 August 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.	14/422,108	
Filing Date	February 17, 2015	

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 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:	Dale M. Ashby		
Inventor's signature:			Date:	
Residence: (City & Stat	e/Country):	Solon, OH	Citizenship:	us
Post Office Address:	7562 Stoo Solon, OF	ckwood Drive I 44139		
Legal Name of Inv	entor:	Gino G. Banco		
Inventor's signature:			Date:	
Residence: (City & Stat	te/Country):	Lyndhurst, OH	Citizenship:	US
Post Office Address:	1196 Irene Lyndhurst	e Road , OH 44124		
Legal Name of Inv	/entor:	Rene M. Beltran		T
Inventor's signature:			Date:	
Residence: (City & Stat	te/Country):	Los Angeles, CA	Citizenship:	US
Post Office Address: 2952 ½ W Aven Los Angeles, CA				
				-
Legal Name of Inv	ventor:	Beth Keiper		
Inventor's signature:			Date:	
Residence: (City & Stat	te/Country):	San Bernardino, CA	Citizenship:	US
Post Office Address:	Post Office Address: 974 W Marshall Blvd.			
San Bernardi		ardino, CA 92405		
Legal Name of Inv	ventor:	Luis Hernandez		1
Inventor's signature:			Date:	
Residence: (City & State	te/Country):	Baldwin Park, CA	Citizenship:	US
Post Office Address: 14129 Sandstone St. Baldwin Park, CA 91706				

Legal Name of In	ventor:	Anthony Arispe		
Inventor's signature:			Date:	
Residence: (City & Sta	te/Country):	Riverside, CA	Citizenship:	us
Post Office Address:	1027 Can Riverside	inon Rd. , CA 92506		

Legal Name of Inv	ventor:	Tomas E. Carrillo		
Inventor's signature:		In Pailo	Date:	04/19/2015
Residence: (City & Sta	te/Qountry):	Torrance, CA	Citizenship:	SV
Post Office Address:	22234 S. V Torrance, 0	ermont Ave. CA 90502		

Docket No.	PA51P0014WOAUS		PATENT (PARKER)
COMBINED DECL	ARATION AND ASSIGNMENT FO	R UTILITY OR I	DESIGN PATENT APPLICATION
Title of Invention:	SYRINGE HAVING A PISTON V	VITH EMBEDDE	D RFID CHIP
As a below named ir	wentor, I hereby declare that this d	eclaration and a	ssignment are directed to:
Application No. (Ex	oress Mail Label No.)		
Filing Date (Deposi	t Date)		

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

Amended on (if applicable)

#### 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.

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## 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)
61/684,171	17 August 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

COUNTRY	APPLICATION NUMBER	BATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED
wo	PCT/US2013/055597	19 August 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.

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Application No.	14/422,108
Filing Date	February 17, 2015

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.

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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:	Dale M. Ashby		***************************************
Inventor's signature:			Date:	
Residence: (City & Sta	te/Country):	Salon, OH	Citizenship:	us
Post Office Address	7562 Sto Solon, Ol	ckwood Drive 1 44139		
Legal Name of In	ventor:	Gino G. Banco		
Inventor's signature:			Date:	
Residence: (City & Sta	te/Country):	Lyndhurst, OH	Citizenship:	US
Post Office Address	1196 Iren Lyndhurst	e Road , OH 44124		
Legal Name of In	ventor:	Rene M. Beltran,		
Inventor's signature:	100	e ur Be/ha Z	Date:	8/21/18
Residence: (City & Sta	te/Country):	Los Angeles, CA	Citizenship:	US
Post Office Address: 2952 ½ W A Los Angeles		/ Avenue 35 les, CA 90065		
Legal Name of Inv	ventor:	Beth Keiper		
inventor's signature:			Date:	
Residence: (City & Stat	te/Country):	San Bernardino, CA	Citizenship:	us
Post Office Address: 974 W Marsh San Bernardir		arshall Blvd. ardino, CA 92405		
Legal Name of Inv	ventor:	Luis Hemandez		
Inventor's signature:		(, , , , , , , , , , , , , , , , , , ,	Date:	
Residence: (City & Stat	e/Country):	Baldwin Park, CA	Citizenship:	US
Post Office Address:		ndstone St. ark, CA 91706	L.	

Legal Name of Inventor:		Anthony Arispe			
Inventor's signature:	itor's signature.		Date:		
Residence: (City & Sta	te/Country);	Riverside, CA	Citixenship:	US	
Post Office Address:	1027 Canno Riverside, C				

Legal Name of Inventor:	Tomas E. Camillo		
Inventor's signature:		Date:	
Residence: (City & State/Country):	Forrance, CA	Cilizenship:	SV
Post Office Address: 22234 S. Vermont Ave. Torrance, CA 90502			

	,	<b>X</b>
Docket No.	PA51P0014WOAUS	PATENT (PARKER)

## COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION

Title of Invention:	SYRINGE HAVING A PISTON WITH EMBEDDED RFID CHIP
<b>{</b>	i

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

Application No. (Express Mail Label No.)	14/422,108
Filing Date (Deposit Date)	February 17, 2015
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.

PCT / U.S. APPLICATION NUMBER	OATS OF FRING (day, mooth, year)	PATENT NUMBER
PCT/US2013/055597	19 August 2013	

## 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	OATE OF FILING (day, horth, year)
61/684,171	17 August 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

REEL: 046661 FRAME: 0873

COUNTRY	APPLICATION NUMBER	OATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED

#### 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.	14/422,108	
Filing Date	February 17, 2015	

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.

PATENT
REEL: 046661 FRAME: 0874

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.

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PATENT REEL: 046661 FRAME: 0875

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PATENT REEL: 046661 FRAME: 0876

**RECORDED: 08/22/2018**