PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Patrick Sean Livingston	09/13/2013
Joseph Constantine Bouboulis	09/06/2013
Douglas E. Pyles	09/13/2013
Gregory P. Albert	09/13/2013
James F. Bouchard	09/13/2013

RECEIVING PARTY DATA

Name:	Ingersoll-Rand Company	
Street Address:	800-D Beaty Street	
City:	Davidson	
State/Country:	NORTH CAROLINA	
Postal Code:	28036	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14015452

CORRESPONDENCE DATA

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Signature:	/jpl/ PATENT	
NAME OF SUBMITTER:	Joshua P. Larsen	
ATTORNEY DOCKET NUMBER:	437251-225437	

502496428 REEL: 031211 FRAME: 0720

1401

Date:	09/16/2013
Total Attachments: 6 source=Executed_Assignment_225437#page1.tif source=Executed_Assignment_225437#page2.tif source=Executed_Assignment_225437#page3.tif source=Executed_Assignment_225437#page4.tif source=Executed_Assignment_225437#page5.tif source=Executed_Assignment_225437#page6.tif	

PATENT REEL: 031211 FRAME: 0721

ASSIGNMENT

WHEREAS, PATRICK SEAN LIVINGSTON, JOSEPH CONSTANTINE BOUBOULIS, DOUGLAS E. PYLES, GREGORY P. ALBERT, and JAMES F. BOUCHARD (hereinafter, the "Assignors") are the makers of an invention which is the subject of a United States Patent Application identified as Serial No. 14/015,452, filed on August 30, 2013, and entitled "Grinders with Friction Drives" (hereinafter, the "Application"); and

WHEREAS, the Assignors have an obligation to assign the Application to INGERSOLL-RAND COMPANY, a New Jersey corporation having a place of business at 800-D Beaty St., Davidson, North Carolina 28036 (hereinafter, the "Assignee");

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors do hereby assign, sell, and set over to Assignee their entire right, title, and interest in, to, and under the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, all inventions disclosed therein, and any and all Letters Patent of the United States and of all other countries that may be granted for such inventions, all rights in such Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment not been made.

The Assignors agree to execute any and all papers in connection with the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, and any Letters Patent issuing therefrom, and also to execute separate assignments as the Assignee may deem necessary or desirable.

The Assignors agree to execute any and all papers in connection with any litigation or administrative proceeding concerning the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, or any Letters Patent issuing therefrom, and also to cooperate with the Assignee in every way possible in obtaining evidence and participating in any such litigation or administrative proceeding.

The Assignors agree to execute any and all papers and to perform any and all acts which the Assignee may deem necessary or desirable in view of the provisions of the Patent Cooperation Treaty, the International Convention for Protection of Industrial Property, or similar agreements.

The Assignors agree to perform any and all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire patent protection, with specifications and claims in such form as shall be approved by Assignee, and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The Assignors hereby covenant that they have the full right to convey the interests herein assigned, and that the Assignors have not executed, and will not execute, any agreement in conflict herewith.

The Assignors hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent & Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I have executed this a	ssignment at <u>Union</u> , NT
this 13 day of SCACMER	(city, state)
this /3 day of September (month)	(year)
PATRICK SEAN LIVINGSTON Inventor (Printed Name)	Inventor (Signature)
Outside the United States, the signatures of two witnesses are required when acknowledgment	Witness (Signature)
before a Notary Public is not feasible:	Witness (Signature)
ACKNOWLI	EDGMENT
STATE OF NEW FREY	aa.
COUNTY OF Hunterdan	SS:
Acknowledged before me, a Notary Public, within	and for said County and State. Witness my
hand and Notarial Seal this day of	<u> 2013.</u>
	Notary Public (Signature)
	Kind Whiteman
	Printed Name
My Commission Expires: 3/22//7	Resident of Hunterdorcounty.

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KRISTA E. WHITTEN

NOTARY PUBLIC OF NEW JERSEY

ID # 2418897

My Commission Explose 1/35/3017

REEL: 031211 FRAME: 0723

Atty, Ref. No. 437251-225437 IR Ref. No. 81057111

	. .
IN WITNESS WHEREOF, I have executed the	his assignment at <u>Asbury</u> NJ
this 6th down sentember	(dify, state)
this 6th day of September (month)	(year)
ACCORT CONTOCTANTENIE BENEFICIELE	
JOSEPH CONSTANTINE BOUBOULIS	Zumakar (Ciamakura)
Inventor (Printed Name)	Invertior (Signature)
	Appeter Committee Co
Straight & Straight and Straight and Straight and	
Outside the United States,	XXY5 - 702 - 12.52X
the signatures of two	Witness (Signature)
witnesses are required	
when acknowledgment	
before a Notary Public	300 - CO2
is not feasible:	Witness (Signature)
ACKNO	WLEDGMENT
STATE OF NEW JULSEY COUNTY OF Bergen	}
, , , , , , , , , , , , , , , , , , ,	} }
COUNTY OF Octyon	<i>}</i>
Acknowledged before me, a Notary Public, w	vithin and for said County and State. Witness my
hand and Notarial Scal this 644 day o	r September, 2013
KAREN O. WITT	Karen O. JUST
NOTARY PUBLIC OF NEW JERSEY	Notary Public (Signature)
My Commission Expires 1/24/2014	KAREN O. WITT
	Printed Name
My Commission Expires: 124 2014	Resident of <u>Bergen</u> County.

IN WITNESS WHEREOF, I have executed this	assignment at Winten, NT
this 13 day of Reptender (month)	(city, state)
(date) (month)	(year)
DOUGLAS E. PYLES Inventor (Printed Name)	Des 1 5 73 45 Inventor (Signature)
Outside the United States, the signatures of two witnesses are required when acknowledgment	Witness (Signature)
before a Notary Public is not feasible:	Witness (Signature)
ACKNOWL	EDGMENT
country of Honferdon	SS:
Acknowledged before me, a Notary Public, withi	in and for said County and State. Witness my
hand and Notarial Seal this day of	sytember, 2013.
	Notary Public (Signature) Knsta Whitemare Printed Name
My Commission Expires: 3/27/17	Resident of HUNHINGOUNTY.
	ggaratong

KRISTA E. WHITTEMORE NOTARY PUBLIC OF NEW JERSEY ID # 2418697 My Commission Explins \$7272017

IN WITNESS WHEREOF, I have executed this ass	signment at Olinton, NT
this 13 day of Stofember	(city, state)
this / day of / day of / (month)	,
(man)	(year)
GREGORY P. ALBERT	Wrent Iller
Inventor (Printed Name)	/Inventor (Signature)
Outside the United States,	
the signatures of two	Witness (Signature)
witnesses are required when acknowledgment	
before a Notary Public	
is not feasible:	Witness (Signature)
ACKNOWLE	DGMENT
STATE OF NEW JERSLY }	
' `	SS:
country of Hunterdon	
Acknowledged before me, a Notary Public, within	and for said County and State. Witness my
hand and Notarial Seal this day of	RHEMBET . ZOB.
	Notary Public (Signature)
	Krister Whittenor
~ / · ·	Printed Name
My Commission Expires: 3/22/17	Resident of Huntedon County.
	Administration of the Control of the

KRISTA E. WHITTEMORE
NOTARY PUBLIC OF NEW JERSEY
ID # 2418997
My Commission Expires 3/22/701

My Commission Expires 3/22/2017

Atty. Ref. No. 437251-225437 IR Ref. No. 81057111

IN WITNESS WHEREOF	I have executed this a	ssignment at Winter NS
this day of	<u>September</u> (month)	
Camaray	(G ****/
JAMES F. BOUCHARD		Jamos Baucher 2
Inventor (Printed Name)		Inventor (Signature)
Outside the United States, the signatures of two witnesses are required when acknowledgment		Witness (Signature)
before a Notary Public is not feasible:		Witness (Signature)
	ACKNOWLI	EDGMENT
STATE OF NEW T	RUSCO)	
COUNTY OF HONTE	•	SS:
Acknowledged before me,	a Notary Public, within	n and for said County and State. Witness my
hand and Notarial Seal this	day of	September, 2013.
		Notary Public (Signature)
		Krista Whatemore Printed Name
My Commission Expires:	3/22/17	Resident of Honterda County.
		KRISTA E. WHITTEMORE NOTARY PUBLIC OF NEW JERSEY ID # 2418897

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RECORDED: 09/16/2013