

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WHIRLPOOL S.A.	02/18/2019
RECEIVING PARTY DATA	
Name:	EMBRACO INDÚSTRIA DE COMPRESSORES E SOLUÇÕES EM REFRIGERAÇÃO LTDA.
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Internal Address:	DISTRITO INDUSTRIAL
City:	JOINVILLE
State/Country:	BRAZIL
Postal Code:	89219-100
PROPERTY NUMBERS Total: 13	
Property Type	Number
Application Number:	12737125
Application Number:	12737435
Application Number:	13262338
Application Number:	14131582
Application Number:	14558099
Application Number:	14904743
Application Number:	15027495
Application Number:	15468921
Application Number:	12998044
Application Number:	13696253
Application Number:	14959020
Application Number:	13699207
Application Number:	15291613
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NAME OF SUBMITTER:	PAUL R. MAHAN
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DATE SIGNED:	02/28/2019

Total Attachments: 8
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Deed of Assignment

THIS DEED is made between:

Whirlpool S.A., a company organized and existing under the laws of Brazil, of Avenida das Nações Unidas, 12.995, 32° andar, Brooklin Novo, 04578-000 São Paulo, SP, Brazil
("the Assignor");

and

Embraco Indústria de Compressores e Soluções em Refrigeração Ltda., a company organized and existing under the laws of Brazil, of Rua Rui Barbosa 1020 Distrito Industrial 89219-100 Joinville SC, Brazil

("the Assignee");

WHEREAS:

- (a) The Assignor is the proprietor of the Patents in the United States as set out in the attached schedule marked "Annex A" ("The Patents") and
- (b) The Assignor and the Assignee have agreed that the Patents should be transferred to the Assignee.

IT IS AGREED THAT:

For consideration of the sum of 1 US-DOLLAR, receipt of which is hereby acknowledged by the Assignor, the Assignor hereby assigns, transfers and sets over unto the Assignee, its successors and assigns all rights, title and interests in Country together with the goodwill of the business represented and symbolised by the Patents and the Assignee accepts the said assignment.

Signed in Munich this 18th day of February 2019



(Signature)
Denisa Pikusova, Proxy-Holder
Whirlpool S.A. (Assignor)



(Signature)
Michal Molcan, Proxy-Holder
Embraco Indústria de Compressores e Soluções em Refrigeração Ltda.
(Assignee)

Annex A

Patent Title	Application No.
Applied configuration in suction valve of reciprocating Compressor	-
Intake silencer for sealed refrigerant compressor	09/914,154
Plasma process and reactor for treating metallic pieces	12/737125
Refrigeration system	12/737435
System and method of communication for electronic apparatuses	13/262338
Process for production of nanoparticles of solid lubricant and lubricant dispersions stable in oil and in water	14/131,582
Process of manufacturing a porous body by powder metallurgy and particulate materials metallurgical composition	14/366,539
Plasma process and reactor for treating metallic pieces	14/558,099
Compressor valve plate	10/204,469
Vibration dampening system for a reciprocating compressor with a linear compressor	10/220,080
A method of controlling an electric motor, a system for controlling an electric motor and an electric motor	10/363,004
Oil pump for a reciprocating hermetic compressor	10/363,724
Suction muffler for a reciprocating hermetic compressor	10/494,403
Suction valve for a small hermetic compressor	10/530077
A linear motor, a linear compressor, a method of controlling a linear compressor, a cooling system, and a linear compressore controlling a system	10/587234
A fluid pump controlling system, a fluid pump controlling method, a linear compressor and a cooler	10/596239
Discharge system for compressors	10/596685
Suction system for a refrigeration compressor	10/597469
Suction and discharge valve arrangement for a small hermetic compressor	10/750,179
Installation and process for treating metal parts of plasma reactor	14/904,743
System and method for controlling reciprocal compressors	11/464,434
LINEAR COMPRESSOR	11/794,041
A control system and method for protection against breakage of lubricating-oil film in compressor bearings	11/815781
Lubricant oil for a refrigeration machine, lubricant composition and refrigeration machine and system	11/993,161
Piston-and-cylinder assembly with a variable diametral clearance, and a cylinder for use in a piston-and-cylinder assembly with a variable diametral clearance	11/996390
Process for obtaining, by powder metallurgy, watertight components	15/027,495
Plasma-assisted process of ceramization of polymer precursor on surface, surface comprising ceramic polymer	15/468,921
Hermetic compressor with internal thermal insulation	12/094459
METHOD FOR THE PREDICTIVE CLOSED-LOOP CONTROL OF A LINEAR DRIVE OR OF A LINEAR COMPRESSOR AND LINEAR DRIVE OR LINEAR COMPRESSOR SUBJECT TO PREDICTIVE CLOSED-LOOP CONTROL	12/224,513
System for programming domestic appliances and method for	12/282944

programming assembly-line programmable domestic appliances	
Linear compressor	12/297274
Flow rate control system in refrigeration circuits, method for controlling a refrigeration system and a refrigeration system	12/297671
Resonator arrangement in an acoustic muffler for a refrigeration compressor	12/298,578
Control system and method for operating a cooling system	12/302312
A linear compressor control system, a method of controlling a linear compressor and a linear compressor	12/314056
A synchronous machine and a process of manufacturing a synchronous machine	12/372427
Clamp for tubular connections in small refrigeration systems	12/439262
Mounting arrangement for the energizing cables of an electric motor of a refrigeration compressor	12/598883
Suspension system for a linear compressor	12/601585
Piston for a refrigeration compressor	12/664914
Computer docking station	12/678092
Suction arrangement for a hermetic refrigeration compressor	12/737963
Lubricant oil for a refrigeration machine, lubricant composition and refrigeration machine and system	12/795955
Method of detecting impact between cylinder and piston driven by a linear motor, detector of impact between a cylinder and piston driven by a linear motor, gas compressor, control system for a cylinder and a piston set driven by a linear motor	12/810056
Piston and cylinder combination driven by linear motor with cylinder position recognition system and linear motor compressor, and an inductive sensor	12/810953
System and method for controlling linear compressor	12/918681
Constructive arrangement for hermetic compressor cooling	12/991504
Noise muffler for compressor and compressor	12/997124
Mounting arrangement for an oil pump in a refrigeration compressor	12/998280
Control system for singlephase induction motor and control method for singlephase induction motor	13/255750
A linear motor, a linear compressor, a method of controlling a linear compressor, a cooling system, and a linear compressor controlling a system	13/267154
Linear compressor	13/382440
Control system for electric motor applied to cyclic loads and control method for electric motor applied to cyclic loads	13/386119
Anticipatory control system for electric motor and anticipatory control method for electric motor applied to cyclic loads	13/386198
Block for a refrigeration compressor	13/392344
Data and command communication system a method between variable capacity compressor and electronic thermostat for a cooling system	13/503367
Mounting arrangement for an eccentric shaft in a refrigeration compressor	13/505821
Linear motor compressor resonant spring assembly arrangement	13/520394
Cooling system of a refrigerator and suction system for a compressor fluid	13/643,862
A control method for a resonant linear compressor and an electronic control system for a resonant linear compressor applied to a cooling system	13/810099

A start and control method for a single-phase induction motor, a start and control system for a single-phase induction motor and an electronic start and control device applied to a single-phase induction motor	13/825261
System and method for monitoring and controlling a brushless electric motor	13/876119
Piston assembly for alternative compressor	13/976767
Resonant mechanism for linear compressors	13/976799
System and method for controlling reciprocal compressors	13/982126
Crankshaft for reciprocating compressor refrigerating	13/992078
Double- suction compressor control methods for refrigeration systems	13/993,003
Bearing arrangement for reciprocating compressor refrigeration	13978999
A system and method of remotely connecting and disconnecting the auxiliary power supply of a frequency inverter for variable capacity compressor employed in cooling systems	14/001357
Resonant linear compressor drive system, a resonant linear compressor drive system method, a resonant linear compressor	14/005,127
Piston for a reciprocating hermetic compressor	14/019833
Mounting arrangement for a piston-connecting rod assembly in a refrigeration compressor	14/125700
Connecting rod/piston arrangement for alternative compressor and process for assembling connecting rod/piston arrangement for alternative compressor	14/127,746
Stack of metallic laminations, metallic lamination and process for forming a lamination stack	14/127644
Adapting device for linear compressor, and compressor provided with such device	14/130110
Arrangement of components of a linear compressor	14/131,099
Suction chamber	14/235,252
System and method for controlling the stroke and operation at resonance frequency of a resonant linear motor	14/238,665
Mounting arrangement for an oil pump in a refrigeration compressor	14/241,721
Flow restrictor and gas compressor	14/358,528
Linear driven unit resonant spring deformation control device	14/359,746
Acoustic filter for alternative compressor	14/365,380
Suction valve assembly for alternative compressor	14/365,410
Cylinder cover for alternative compressor	14/366,967
Semi-commanded valve system applied to compressor and method for modulating the capacity of a compressor provided with a semicommanded valve system	14/369,054
HOUSING FASTENING ELEMENT, HOUSING LOCKING SYSTEM AND METHOD, A COMPRESSOR AND AN INVERTER	14/401,387
Device and process for simultaneous shaping and welding of connector pipes for compressors	14/414,219
Gas discharge arrangement for a refrigeration compressor	14/421917
Hydrodynamic bearing applied in contact interface compressor fluids based on engine type spiral	14/426,249
Bearing arrangements in a refrigeration reciprocating compressor	14/432,306
Gas discharge for a refrigeration compressor and a refrigeration compressor	14/432,883
Manufacturing process of a porous component and a porous component	14/434,354

Cooling system of a refrigerator and suction system for a compressor fluid	14/511,455
A linear motor, a linear compressor, a method of controlling a linear compressor, a cooling system, and a linear compressor controlling a system	14/540669
Linear compressor	14/630,084
Suction muffler located inside a piston of a linear compressor	14/652,607
Arrangement and process for mounting a resonant spring in a linear motor compressor and a linear motor compressor	14/655,779
Flow restrictor and gas compressor	14/766,372
Operational status checking system of alternative compressor valve and method for checking operational status of alternative compressor valve	14/768,003
Method for actuating semicontrolled valve and system for actuating semicontrolled valve for multisuction alternative compressor	14/768,015
Linear compressor for a household appliance and household refrigeration appliance	14/904,113
Acoustic attenuator device for compressors	14/908,707
Hermetic compressor suspension for alternative movable application and method for mounting suspension compressor alternative of movable application	14/909,358
Hermetic compressor alternative of movable application provided to set limit move	14/909,393
Thermal insulation system for the discharge of gas in a refrigeration compressor	14433188
System and method for controlling the operation of an electric motor of a compressor	15/025,130
Method for Producing Synthetic Alkyl Aromatic Lubricant Oil for Refrigeration Compressors by Selection of Solid Acid Catalysts Modified During the Integrated Alkylation and Transalkylation Process in Reactive Distillation Columns	15/115,087
A method and a system for protecting a resonant linear compressor	15/203,346
Refrigeration system including evaporators associated in parallel	15/211,419
Double- suction compressor control methods for refrigeration systems	15/242,877
Method and system for protection and diagnosis of a linear compressor	15/251,106
equalization system of compressors pressure, equalization pressure method and system operation in cooling hermetic compressors	15/260,608
Multi-evaporation cooling system	15/265,108
Intake valve actuating system, compressors starting method and its uses	15/280,037
Brazing process of pipes and compressor	15/297,311
Cooling system for cabinets and cooling cabinet by forced air	15/351,576
System for harmonic content correction in power electric circuit, system for electric engine control, and cooling compressor	15/371,749
Electronic control connector, electronic control for driving a hermetic compressor and hermetic compressor	15/392,344
System, method and means for connecting and fixing an electronic control to an airtight compressor and an airtight compressor	15/392,690
System and method for feeding and controlling a variable capacity compressor, a variable capacity compressor and a cooler comprising a variable capacity compressor	15/401,490
Device, system and method for starting a single-phase induction motor	15/401,708
Resonant linear compressor drive system, a resonant linear compressor drive system method, a resonant linear compressor	15/429,851
Improper opening detection method of multiple suction reciprocating	15/512,123

compressor suction valve	
Acoustic attenuator device for compressors	15/516,941
Suction acoustic filter for compressor	15/558,261
Acoustic filter for compressor	15/620,937
hermetic compressor	15/835,855
Constructive arrangement entered in acoustic filter of hermetic compressor	15023614
Oil, Lubricant Composition Having Improved Lubricity and Increased Coefficient of Performance, Uses and Mechanical Equipment	15105754
Valve arrangement for an alternative compressor	15115080
Oil pump assembly arrangement in refrigeration compressor	15407822
Variable speed cooling compressor including lubricating oil pumping	15407907
Metallurgical composition of particulate materials, self-lubricating sintered product and process for obtaining self-lubricating sintered products.	12/998044
SYSTEM FOR CONTROLLING A RESONANT LINEAR COMPRESSOR PISTON, METHOD FOR CONTROLLING A RESONANT LINEAR COMPRESSOR PISTON, AND RESONANT LINEAR COMPRESSOR	9518578 20130189119 13696253
RADIAL BEARING ARRANGEMENT IN A REFRIGERATION COMPRESSOR	20170184085 15300392
BEARING ARRANGEMENT FOR A RECIPROCATING COMPRESSOR	20170227046 15499982
System for correction of harmonic content in electric power circuit, system for control of electric motors, and refrigeration compressor	20170257021
PROCESS FOR THE FORMATION OF A STACK OF SUPERPOSED METALLIC LAMINATIONS	20170338703 15670369
PROCESS FOR THE FORMATION OF A STACK OF SUPERPOSED METALLIC LAMINATIONS	20170338704 15670410
SUCTION ACOUSTIC FILTER AND SUCTION LINE INCLUDING SUCTION ACOUSTIC FILTER	20170356432 15531058
INTRODUCED IN A SYSTEM FOR CONNECTING REFRIGERANT FLUID DISCHARGE TUBES TO CYLINDER CAPS OF HERMETIC COMPRESSORS, AND CORRESPONDING PROCESS OF PERFORMING THEREOF	20170356434 15621012
HEAD FASTENING ARRANGEMENT OF COOLING COMPRESSOR	20170356437 15618249
RECIPROCATING COMPRESSOR VALVES ARRANGEMENT	20170356441 15529156
RECIPROCATING COMPRESSOR AND PROCESS FOR MOUNTING HERMETICALLY SEALED HOUSING OF RECIPROCATING COMPRESSOR	20170356442 15617206
COMPOSITION OF PARTICULATE MATERIALS AND PROCESS FOR OBTAINING SELF-LUBRICATING SINTERED PRODUCTS	20160184896 14959020
Suction arrangement for a refrigeration compressor	13/699,207
Control system for a piston of a resonant linear compressor, method for controlling a piston of a resonant linear compressor and a resonant linear compressor	15/291,613
MOUNTING ARRANGEMENT FOR THE ENERGIZING CABLES OF AN ELECTRIC MOTOR OF A REFRIGERATION COMPRESSOR	8480040 20100148016 12598883
MOUNTING ARRANGEMENT FOR AN OIL PUMP IN A REFRIGERATION COMPRESSOR	9541080 20160017871 14333594
Control system for a piston of a resonant linear compressor, method for controlling a piston of a resonant linear compressor and a resonant linear compressor	2013189119
Mounting arrangement for a suction muffler in a linear motor compressor	US 13/988,832
Intake silencer for sealed refrigerant compressor	9914154

Arrangement and process for mounting a resonant spring in a linear motor compressor and a linear motor compressor	14655779
Installation and process for treating metal parts of plasma reactor	14904743
Plasma Process and reactor for thermochemical surface treatment of metal parts	15520154
A method for controlling and protecting electric motors, a system for controlling electric motors and an electric motor system	10088233
Vibration dampening system for a reciprocating compressor with a linear compressor	10220080
A method of controlling an electric motor a system for controlling an electric motor and an electric motor	6,922,027
Oil pump for a reciprocating hermetic compressor	10363724
Constructive arrangement for the starting system of an electric motor controlling a cooling system, and a cooler	10433865
Linear compressor	10476276
A cooling control system for an ambient to be cooled, a method of controlling a cooling system, and a cooler	7,228,694
Mounting arrangement for the piston of a reciprocating hermetic compressor	10484822
Axial bearing arrangement for a hermetic compressor	10488560
Suction muffler for a reciprocating hermetic compressor	10494403
PROCESS FOR THE MANUFACTURE OF AN ELECTRIC MOTOR ROTOR	10499491
A linear-compressor control system, a method of controlling a linear compressor, a linear compressor and a cooling system	7,550,941
Starting device and starting method a singlephase induction motor	10595302
Starting device and starting method a singlephase induction motor	2006273752
A fluid pump controlling system and method	10/596,239
Discharge system for compressors	10596685
Discharge system for compressors	2007201990
A linear motor, a linear compressor, a method of controlling a linear compressor, a cooling system, and a linear compressore controlling a system	8,033,795
Suction system for a refrigeration compressor	10597469
Method of protection against breakage of the oil film lubricant in the bearings of hermetic compressors	7,959,414
Lubricant oil for a refrigeration machine, lubricant composition and refrigeration machine and system	11993161
Piston-and-cylinder assembly with a variable diametral clearance, and a cylinder for use in a piston-and-cylinder assembly with a variable diametral clearance	8,037,809
Acoustic muffler for a hermetic compressor	12090383
A linear compressor control system, a method of controlling a linear compressor and a linear compressor	8,127,563
Hermetic compressor with internal thermal insulation	12094459
System for programming domestic appliances and method for programming assembly-line programmable domestic appliances	8,713,512
Flow rate control system in refrigeration circuits, method for controlling a refrigeration system and a refrigeration system	8,627,676
Linear compressor	12297274
Resonator arrangement in an acoustic muffler for a refrigeration compressor	12298578

Control system and method for operating a cooling system	8,417,387
A synchronous machine and a process of manufacturing a synchronous machine	7,923,882
Clamp for tubular connections in small refrigeration systems	12439262
Process for the permanent inflection of deformable bodies	08/353846
Discharge arrangement for a hermetic compressor	08/7909,75
A method for controlling and protecting electric motors, a system for controlling electric motors and an electric motor system	10/088,233
Method of controlling a compressor, piston-position monitoring system, and compressor	10/178,068
Constructive arrangement for the starting system of an electric motor	10/433,865
Linear compressor	10/476,276
Linear compressor	10/477,372
Mounting arrangement for the piston of a reciprocating hermetic compressor	10/484822
A cooling control system for an ambient to be cooled, a method of controlling a cooling system, and a cooler	10/487,287
Axial bearing arrangement for a hermetic compressor	10/488,560
Process for the injection of an electric motor rotor	10/499,491
A linear-compressor control system, a method of controlling a linear compressor, a linear compressor and a cooling system	10/540910
Starting device and starting method a singlephase induction motor	10/595302
Electronic circuit for starting a single-phase induction motor	10/785,728
SUCTION VALVE FOR A SMALL HERMETIC COMPRESSOR	8096791 20060096647 10530077
Method of controlling a compressor, piston-position monitoring system, and compressor	6,663,348
Linear compressor	10477372