

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7631035

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TTI (MACAO COMMERCIAL OFFSHORE) LIMITED	12/17/2019
RECEIVING PARTY DATA	
Name:	TECHTRONIC FLOOR CARE TECHNOLOGY LIMITED
Street Address:	P.O. BOX 957, OFFSHORE INCORPORATIONS CENTRE
Internal Address:	ROAD TOWN
City:	TORTOLA
State/Country:	VIRGIN ISLANDS, BRITISH
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18053032
CORRESPONDENCE DATA	
Fax Number:	(414)277-0656
<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>	
Phone:	4142716560
Email:	mkeipdocket@michaelbest.com
Correspondent Name:	MICHAEL BEST & FRIEDRICH LLP
Address Line 1:	790 N. WATER STREET
Address Line 2:	SUITE 2500
Address Line 4:	MILWAUKEE, WISCONSIN 53202-4108
ATTORNEY DOCKET NUMBER:	025818-1369-US03
NAME OF SUBMITTER:	JODI ANDERSON
SIGNATURE:	/jodi anderson/
DATE SIGNED:	11/07/2022
Total Attachments: 20	
source=025818-1369-US03 3.m. TTIMCO Patent Assignment Agreement with TFCTL executed copy - AF#page1.tif	
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TTI MCO PATENT ASSIGNMENT AGREEMENT WITH TFCTL

THIS TTI MCO PATENT ASSIGNMENT AGREEMENT WITH TFCTL ("Assignment Agreement"), having an Effective Date being the date this agreement has been properly executed by the parties, is by and between

(1) TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, a company organized under the laws of Macau, hereinafter Assignor, and

(2) TECHTRONIC FLOOR CARE TECHNOLOGY LIMITED, a company organized under the laws of the British Virgin Islands, hereinafter Assignee,

WHEREAS, Assignor rights in and to the Patents and Patent Applications listed in the attached Schedule of Patents and Patent Applications (hereinafter the Patents and Patent Applications) by assignment and intercompany agreements, and pursuant to prior agreement has agreed to assign its rights and legal title to the Patents and Patent Applications to Assignee,

AND WHEREAS, Assignee is desirous of acquiring Assignor's right and legal title in and to the Patents and Patent Applications,

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and by these presents do hereby distribute, assign, transfer and set over, unto Assignee, its successors and assigns, and Assignee hereby accepts, all of Assignor's right, title and interest in and to the Patents and Patent Applications including: all inventions disclosed therein; all patents that issue from the Patent Applications; any division, continuation or continuation-in-part, or any reissue, reexamination or extension of any of the Patents and Patent Applications and all inventions disclosed therein; the right to claim priority to any of the foregoing; all rights of Assignor under any licenses, agreements or contract rights with respect to any of the Patents and Patent Applications (hereinafter the Licenses), including all royalties, fees, income, payments and other proceeds now or hereafter due or payable to Assignor under or in connection with any of the Licenses; and the right to take all such proceedings for the recovery of damages or other forms of relief in respect of all claims and causes of action, and to receive any recovery therefrom, with respect to any of the Patents and Patent Applications and Licenses related thereto, whether accruing before, on or after the Effective Date, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which the Patents and Patent Applications may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made,

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is the sole and lawful owner of the entire right,

title and interest in and to the Patents and Patent Applications, and that the same are unencumbered and that Assignor has good and full right and lawful authority to distribute and convey the same in the manner herein set forth,

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: for the procurement, maintenance, enforcement and defense of the Patents and Patent Applications; to effect, record, perfect or enforce the transfers set forth in this Assignment Agreement; to evidence that any proceeding in connection with the Patents and Patent Applications, including but not limited to interference proceedings, is lawful and desirable; or, to evidence that any division, continuation or continuation-in-part, or any reissue, reexamination or extension of any one of the Patents and Patent Applications, is lawful and desirable.

The rights and obligations of the parties under this Assignment Agreement shall be governed in all respects by the laws of the state of New York, United States exclusively, without regard to conflict of law provisions.

IN WITNESS WHEREOF the parties have executed this Assignment Agreement.

EXECUTED for and on behalf of Assignor)
by its authorised representative)

Chan Chi Hong
name: *Chan Chi Hong*
title: *Director*

on:)

17 day of *December*, 2019

in the presence of:)

Prano Emmanuelle
name: *Prano Emmanuelle*
occupation: *Deputy General Counsel*

AND EXECUTED for and on behalf of)
Assignee by its authorised representative)

name:
title:

on:)

_____ day of _____, 2019

in the presence of:)

name:
occupation:

title and interest in and to the Patents and Patent Applications, and that the same are unencumbered and that Assignor has good and full right and lawful authority to distribute and convey the same in the manner herein set forth,

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: for the procurement, maintenance, enforcement and defense of the Patents and Patent Applications; to effect, record, perfect or enforce the transfers set forth in this Assignment Agreement; to evidence that any proceeding in connection with the Patents and Patent Applications, including but not limited to interference proceedings, is lawful and desirable; or, to evidence that any division, continuation or continuation-in-part, or any reissue, reexamination or extension of any one of the Patents and Patent Applications, is lawful and desirable.

The rights and obligations of the parties under this Assignment Agreement shall be governed in all respects by the laws of the state of New York, United States exclusively, without regard to conflict of law provisions.

IN WITNESS WHEREOF the parties have executed this Assignment Agreement.

EXECUTED for and on behalf of Assignor) _____
by its authorised representative) name:
) title:

on:) _____ day of _____, 2019

in the presence of:) _____
) name:
) occupation:

AND EXECUTED for and on behalf of) _____
Assignee by its authorised representative) name: Preston E. Powell
) title: Director

on:) 21 day of January, 2019

in the presence of:) _____
) name: Kristy Edwards
) occupation: Paralegal

Schedule of Patents and Patent Applications

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
HCG 0493 PAU11	Australia	2017343856	10-May-2019			SURFACE CLEANING APPARATUS
HCG 0493 PAU5	Australia	2018214258	25-Jul-2019			A TOOL FOR A SURFACE CLEANING APPARATUS
HCG 0493 PAU 15	Australia	2018216090	25-Jul-2019			Surface Cleaning Apparatus
FHV0549P-13 AU01	Australia	2018227581	25-Jul-2019			VACUUM CLEANER INCLUDING REMOVABLE CANISTER ASSEMBLY
HCG 0480 PAU1	Australia	2018254191	14-Oct-2019			Project Lascaux - chamfered vortex finder outlets - HCG 0480 PWO1
HCG 0480 PAU2	Australia	2018254192	14-Oct-2019			Project Lascaux - construction of second stage separator - HCG 0480 PWO2
HCG 0480 PAU3	Australia	2018254193	14-Oct-2019			Project Lascaux - second stage cyclones sealed at upper and lower ends by single plates - HCG 0480 PWO3
HCG 0480 PAU4	Australia	2018254194	14-Oct-2019			Project Lascaux - cyclone dimensions - HCG 0480 PWO4
HCG 0480 PAU5	Australia	2018254195	14-Oct-2019			Project Lascaux - angled plate seating second stage cyclones - HCG 0480 PWO5
HCG 0480 PAU7	Australia	2018254196	14-Oct-2019			Project Lascaux - channel formed in rib of shroud - HCG 0480 PWO7
HCG 0541 PAU	Australia	20191010960	23-Feb-2017			Project Sabretooth - Neck constriction
HCG 0541 PAU-UMI	Australia	20191010970	23-Feb-2017			Project Sabretooth - Suction channels
HCG 0602 PAU	Australia	to be reported	15-Jun-2018			Asian - baffle geometry and position on dirt bin lid
HCG 0602 PAU	Australia	to be reported	15-Jun-2018			Asian - release mechanism for dirt bin top removed as complete capsule
HCG 0602 PAU3	Australia	to be reported	15-Jun-2018			Asian - dimensions of skirt/separator/shroud

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
HCG 0602 PAU5	Australia	to be reported	19-Jun-2017			Project Aslan: Fine dust chamber where it meets the conical second stage separator, i.e. the re-entrant shape, to retain dust when the cleaner is tilted
HCG 0602 PAU6	Australia	to be reported	19-Jun-2017			Project Aslan - Motor, separator and battery arrangement
FDD0584P-2 CN01	China	201780068504.9	8-Nov-2017			VACUUM CLEANER
HCG 0493 PCN09	China	201780076305.2	10-Jun-2019			CYCLONIC SEPARATION DEVICE
HCG 0493 PCN10	China	201780076579.1	11-Jun-2019			SURFACE CLEANING APPARATUS
HCG 0493 PCN12	China	201780076989.6	13-Jun-2019			SURFACE CLEANING APPARATUS
HCG 0493 PCN13	China	201780076990.9	13-Jun-2019			A TOOL FOR A SURFACE CLEANING APPARATUS
HCG 0493 PCN11	China	201780077307.3	13-Jun-2019			SURFACE CLEANING APPARATUS
FHV0559P-23	China	201780087457.2	27-Aug-2019			BELLMOUTH PLENUM (VERSA)
FHV0559P-25	China	201780087470.8	27-Aug-2019			DUST CUP LATCH (VERSA)
FHV0559P-24	China	201780087502.4	27-Aug-2019			SENSOR OUTPUT TO APP (VERSA)
FHV0559P-21	China	20179001611.5	27-Aug-2019			FLEXING BATTERY LATCH (VERSA)
HCG 0493 PCN15	China	20188009295.5	30-Jul-2019			SURFACE CLEANING APPARATUS
HCG 0617 PCN	China	201880099341.1	30-Jul-2019			Project Wolf / Gladiator refresh - low flow control valve HCG 0617 PWO
HCG 0493 PCN5	China	201880010075.4	2-Aug-2019			Project Tiger - Floor head - feature which looks orientation of floor head to wand
FHV0549P-15	China	201880015425.6	2-Mar-2018			VACUUM CLEANER AND VACUUM CLEANING SYSTEM IN WIRELESS COMMUNICATION WITH A USER-CONTROLLED ELECTRONIC DEVICE
HCG 0541 PCN-UM2	China	201890000535.0	23-Feb-2017			Project Sabretooth - Neck constriction
HCG 0541 PCN-UM1	China	201890000541.6	23-Feb-2017			Project Sabretooth - Suction channels
FHV0705P-18 CN01	China	201890000823.6	7-May-2018			ROBOTIC VACUUM CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0750P04	China	201910675837.9	25-Jul-2019			BATTERY
FHV0750P04	China	201921186454.7	25-Jul-2019			RECHARGEABLE BATTERY PACK
FCO0760	China	201930360228.5	8-Jul-2019			BATTERY
HCG 0493 PCN2	China	201780076621.X	11-Jun-2019			SURFACE CLEANING APPARATUS
HCG 0480 PCN1	China	201880026464.6	17-Apr-2018			Project Lascaux - chamfered vortex finder outlets - HCG 0480 PWO1
HCG 0480 PCN2	China	201880026488.1	17-Apr-2018			Project Lascaux - construction of second stage separator - HCG 0480 PWO2
HCG 0480 PCN3	China	201880026462.7	17-Apr-2018			Project Lascaux - second stage cyclones sealed at upper and lower ends by single plates - HCG 0480 PWO3
HCG 0480 PCN4	China	201880026454.2	17-Apr-2018			Project Lascaux - cyclone dimensions - HCG 0480 PWO4
HCG 0480 PCN5	China	201880026463.1	17-Apr-2018			Project Lascaux - angled plate sealing second stage cyclones - HCG 0480 PWO5
HCG 0480 PCN7	China	201880026453.8	17-Apr-2018			Project Lascaux - channel formed in rib of shroud - HCG 0480 PWO7
HCG 0602 PCN	China	to be reported	15-Jun-2018			Aslan - baffle geometry and position on dirt bin lid
HCG 0602 PCN	China	to be reported	15-Jun-2018			Aslan - release mechanism for dirt bin top removed as complete capsule
HCG 0602 PCN3	China	to be reported	15-Jun-2018			Aslan - dimensions of skirt/separator/shroud
HCG 0602 PCN5	China	to be reported	19-Jun-2017			Project Aslan: Fine dust chamber where it meets the conical second stage separator, i.e. the re-entrant shape, to retain dust when the cleaner is tilted
HCG 0602 PCN6	China	to be reported	19-Jun-2017			Project Aslan - Motor, separator and battery arrangement
OAG 0051 PCN-UM	China	201921244080.X	2-Aug-2019			Laser Level
HCG0602 PEP6	European Patent	17732202.1	19-Jun-2017			Project Aslan: Motor, separator and battery arrangement - HCG 0602 PEP

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
HCC0602 PEP5	European Patent	17722204.7	19-Jun-2017			Project Asian: Fine dust chamber where it meets the circular second stage separator, i.e. the re-entrant shape, to retain dust when the cleaner is filled - HCG 0602 PEP
FDD0584P-2 EP01	European Patent	17801267.0	8-Nov-2017			VACUUM CLEANER
FHV0550P-24	European Patent	17897290.7	27-Sep-2019			SENSOR OUTPUT TO APP (VERSA)
FHV0559P-21	European Patent	17897366.5	27-Sep-2019			FLEXING BATTERY LATCH (VERSA)
FHV0559P-23	European Patent	17897367.3	27-Sep-2019			BELLMOUTH PLENUM (VERSA)
FHV0559P-25	European Patent	17897710.4	27-Sep-2019			DUST CUP LATCH (VERSA)
HCG 0493 PWO15	European Patent	18703829.4	31-Jan-2018			Project Tiger - Flap on inlet which adjoins ramp on inside of separator
HCG 0493 PEP05	European Patent	18703845.0	2-Feb-2018			Project Tiger - Floor head - feature which locks orientation of floor head to wand
HCG 0541 PGB	European Patent	18705475.4	9-Feb-2018			Project Sabretooth - Suction channels - HCG 0541 PGB
HCG 0541 PGB	European Patent	18705478.8	9-Feb-2018			Project Sabretooth - Neck constriction - HCG 0541 PGB
HCG 0617 PEP	European Patent	18706591.7	29-Jan-2018			Project Wolf / Gladiator refresh - low flow control valve HCG 0617 PWO
FHV0549P-15	European Patent	18712338.5	2-Mar-2018			VACUUM CLEANER AND VACUUM CLEANING SYSTEM IN WIRELESS COMMUNICATION WITH A USER-CONTROLLED ELECTRONIC DEVICE
FHV0549P-16	European Patent	18712340.1	4-Oct-2019			VACUUM CLEANER INCLUDING A SURGACE CLEANING HEAD HAVING A DISPLAY
HCG 0480 PEP1	European Patent	18721096.8	17-Apr-2018			Project Lascaux - chamfered vortex finder outlets - HCG 0480 PWO1
HCG 0480 PEP2	European Patent	18721097.6	17-Apr-2018			Project Lascaux - construction of second stage separator - HCG 0480 PWO2

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
HCC 0480 PEP3	European Patent	18721098.4	17-Apr-2018			Project Lascaux - second stage cyclones sealed at upper and lower ends by single plates - HCG 0480 PWO3
HCG 0480 PEP4	European Patent	18721099.2	17-Apr-2018			Project Lascaux - cyclone dimensions - HCG 0480 PWO4
HCG 0480 PEP5	European Patent	18721100.8	17-Apr-2018			Project Lascaux - angled plate seating second stage cyclones - HCG 0480 PWO5
HCG 0480 PEP7	European Patent	18721101.6	17-Apr-2018			Project Lascaux - channel formed in rib of shroud - HCG 0480 PWO7
HCG0602 PEP	European Patent	18732144.3	15-Jun-2018			Asian - release mechanism for dirt bin top removed as complete capsule
HCG0602 PEP	European Patent	18732145.0	15-Jun-2018			Asian - baffle geometry and position on dirt bin lid
HCG0602 PEP3	European Patent	18732146.8	15-Jun-2018			Asian - dimensions of skirt/separator/shroud
HCG0602 PEP	European Patent	18732147.6	15-Jun-2018			Asian - rotation of separator to open bin lid
FHV0737P 16	European Union	006578654	13-Jun-2019	006578654-0001		FLOOR CLEANER
FCO0760	European Union	006748216	21-Aug-2019	006748216-0001		BATTERY
FCO0760	European Union	006748216	21-Aug-2019	006748216-0002		BATTERY
FHV0559P-21	Patent Cooperation Treaty	PCT/CN2017/074998	27-Feb-2017			FLEXING BATTERY LATCH (VERSA)
FHV0559P-25	Patent Cooperation Treaty	PCT/CN2017/075024	27-Feb-2017			DUST CUP LATCH (VERSA)
FHV0559P-24	Patent Cooperation Treaty	PCT/CN2017/075034	27-Feb-2017			SENSOR OUTPUT TO APP (VERSA)
FHV0559P-23	Patent Cooperation Treaty	PCT/CN2017/075038	27-Feb-2017			BELLMOUTH PLENUM (VERSA)

Reference No.	Countries	Application Number	Application Date	Registration Number	Registration Date	Title
HCG0602PWO	Patent Cooperation Treaty	PCT/GB2017/051786	19-Jun-2017			Project Aslan: Motor, separator and battery arrangement - HCG 0602 PWO
HCG0602PWO	Patent Cooperation Treaty	PCT/GB2017/051788	19-Jun-2017			Project Aslan: Fine dust chamber where it meets the conical second stage separator, i.e. the re-entrant shape, to retain dust when the cleaner is tilted - HCG 0602 PWO
HCG 0493 PWO2	Patent Cooperation Treaty	PCT/GB2017/053076	12-Oct-2017			Project Tiger - Motor exhaust - either side of motor
HCG 0493 PWO10	Patent Cooperation Treaty	PCT/GB2017/053077	12-Oct-2017			Project Tiger - Axis of dirt bin intersects axis of wand
HCG 0493 PWO13	Patent Cooperation Treaty	PCT/GB2017/053078	12-Oct-2017			Project Tiger - Fiber head - cable routing through hinging joint to wand
HCG 0493 PWO11	Patent Cooperation Treaty	PCT/GB2017/053079	12-Oct-2017			Project Tiger - Motor axle/axis perpendicular and offset from dirt bin axis (motor position relative to bin, also)
HCG 0493 PWO12	Patent Cooperation Treaty	PCT/GB2017/053080	12-Oct-2017			Project Tiger - Removable pre-motor ducting - removable to gain access to pre-motor filter. Rotational locking which connected airflow path from separator to motor
HCG 0493 PWO9	Patent Cooperation Treaty	PCT/GB2017/053081	12-Oct-2017			Project Tiger - Helix on internal surface of dirt bin
HCG 0493 PWO15	Patent Cooperation Treaty	PCT/GB2018/050272	31-Jan-2018			Project Tiger - Flap on inlet which adjoins ramp on inside of separator
HCG 0493 PWO15	Patent Cooperation Treaty	PCT/GB2018/050319	2-Feb-2018			Project Tiger - Floor head - feature which locks orientation of floor head to wand
HCG 0541 PWO	Patent Cooperation Treaty	PCT/GB2018/050363	9-Feb-2018			Project Sabretooth - Suction channels - HCG 0541 PGB

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
HCG 0541 PWO	Patent Cooperation Treaty	PCT/GB2018/050368	9-Feb-2018			Project Sabretexth - Neck construction - HCG 0541 PGB
HCG 0480 PWO1	Patent Cooperation Treaty	PCT/GB2018/051001	17-Apr-2018			Project Lascaux - chamfered vortex finder outlets - HCG 0480 PWO1
HCG 0480 PWO2	Patent Cooperation Treaty	PCT/GB2018/051002	17-Apr-2018			Project Lascaux - construction of second stage separator - HCG 0480 PWO2
HCG 0480 PWO3	Patent Cooperation Treaty	PCT/GB2018/051003	17-Apr-2018			Project Lascaux - second stage cyclones sealed at upper and lower ends by single plates - HCG 0480 PWO3
HCG 0480 PWO4	Patent Cooperation Treaty	PCT/GB2018/051004	17-Apr-2018			Project Lascaux - cyclone dimensions - HCG 0480 PWO4
HCG 0480 PWO5	Patent Cooperation Treaty	PCT/GB2018/051005	17-Apr-2018			Project Lascaux - angled plate seating second stage cyclones - HCG 0480 PWO5
HCG 0480 PWO7	Patent Cooperation Treaty	PCT/GB2018/051006	17-Apr-2018			Project Lascaux - channel formed in rib of shroud - HCG 0480 PWO7
HCG0602 WO	Patent Cooperation Treaty	PCT/GB2018/051654	15-Jun-2018			Asian - release mechanism for dirt bin top removed as complete capsule
HCG0602 WO	Patent Cooperation Treaty	PCT/GB2018/051655	15-Jun-2018			Asian - baffle geometry and position on dirt bin lid
HCG0602 WO	Patent Cooperation Treaty	PCT/GB2018/051656	15-Jun-2018			Asian - dimensions of skirt/separator/shroud
HCG0602 WO	Patent Cooperation Treaty	PCT/GB2018/051657	15-Jun-2018			Asian - rotation of separator to open bin lid
FDD0584P-2 WO01	Patent Cooperation Treaty	PCT/US2017/060643	8-Nov-2017			VACUUM CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0746P-1 WO01	Patent Cooperation Treaty	PCT/US2018/013128	10-Jan-2018			FLOOR CLEANER
HCG 0617 PWO	Patent Cooperation Treaty	PCT/US2018/015707	29-Jan-2018			Project Wolf / Gladiator refresh - low flow control valve HCG 0617 PWO
FHV0549P-15	Patent Cooperation Treaty	PCT/US2018/020755	2-Mar-2018			VACUUM CLEANER AND VACUUM CLEANING SYSTEM IN WIRELESS COMMUNICATION WITH A USER-CONTROLLED ELECTRONIC DEVICE
FHV0549P-13	Patent Cooperation Treaty	PCT/US2018/020739	2-Mar-2018			VACUUM CLEANER INCLUDING REMOVABLE CANISTER ASSEMBLY
FHV0549P-16	Patent Cooperation Treaty	PCT/US2018/020742	2-Mar-2018			VACUUM CLEANER INCLUDING A SURFACE CLEANING HEAD HAVING A DISPLAY
FHV0705P18 WO01	Patent Cooperation Treaty	PCT/US2018/031348	7-May-2018			ROBOTIC VACUUM CLEANER
FHV0702P09 WO01	Patent Cooperation Treaty	PCT/US2018/039271	25-Jun-2018			VACUUM CLEANER
FHV0700P-15 WO01	Patent Cooperation Treaty	PCT/US2018/065754	14-Dec-2018			SURFACE CLEANING DEVICE WITH TRIGGERLESS FLUID DISTRIBUTION MECHANISM
FHV0709P-6 WO01	Patent Cooperation Treaty	PCT/US2018/065775	14-Dec-2018			SUPPORT STRUCTURE FOR A SURFACE CLEANING DEVICE
FHV0725P-11	Patent Cooperation Treaty	PCT/US2019/042215	17-Jul-2019			VACUUM CLEANER
FDD0734P-01	Patent Cooperation Treaty	PCT/US2019/045100	5-Aug-2019			VACUUM CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0750P04	Patent Cooperation Treaty	PCT/US2019/047234	20-Aug-2019			BATTERY
FHV0737P11	Patent Cooperation Treaty	PCT/US2019/048162	26-Aug-2019			FLOOR CLEANER
FHV0737P16	Patent Cooperation Treaty	PCT/US2019/048166	26-Aug-2019			FLOOR CLEANER
FHV0737P5	Patent Cooperation Treaty	PCT/US2019/048168	26-Aug-2019			FLOOR CLEANER
FHV0737P15	Patent Cooperation Treaty	PCT/US2019/048169	26-Aug-2019			FLOOR CLEANER
FHV0737P3	Patent Cooperation Treaty	PCT/US2019/048172	26-Aug-2019			FLOOR CLEANER
FHV0737P10	Patent Cooperation Treaty	PCT/US2019/048174	26-Aug-2019			FLOOR CLEANER
FHV0737P4	Patent Cooperation Treaty	PCT/US2019/048178	26-Aug-2019			FLOOR CLEANER
FHV0737P23	Patent Cooperation Treaty	PCT/US2019/048180	26-Aug-2019			FLOOR CLEANER
FHV0748P08	Patent Cooperation Treaty	PCT/US2019/052098	20-Sep-2019			PORTABLE EXTRACTOR
FHV0748P11	Patent Cooperation Treaty	PCT/US2019/052100	20-Sep-2019			PORTABLE EXTRACTOR
FHV0748P3	Patent Cooperation Treaty	PCT/US2019/052103	20-Sep-2019			CLEANING TOOL FOR AN EXTRACTOR

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0737P-25	Patent Cooperation Treaty	PCT/US2019/056880	18-Oct-2019			FLOOR CLEANER
FHV0755P-2 WO01	Patent Cooperation Treaty	PCT/US2019/058804	30-Oct-2019			SURFACE CLEANING DEVICE FOR GENERATING SURFACE IDENTIFYING FINGERPRINT
FCO0759P-01 WO01	Patent Cooperation Treaty	PCT/US2019/065905	12-Dec-2019			SYSTEM AND METHOD FOR PROVIDING POWER TO A MOTOR
FHV0748P-13 WO01	Patent Cooperation Treaty	FCT/US2019/065913	12-Dec-2019			PORTABLE EXTRACTOR
FHV0748P-14 WO01	Patent Cooperation Treaty	PCT/US2019/065925	12-Dec-2019			FLOOR CLEANER
FHV0750U-04 TW01	Taiwan	108209753	25-Jul-2019			RECHARGEABLE BATTERY PACK
HCG 0493 PGB9	United Kingdom	1617513.5	14-Oct-2016			Project Tiger - Helix on internal surface of dirt bin
HCG 0493 PGB12	United Kingdom	1617518.4	14-Oct-2016			Project Tiger - Removable pre-motor ducting - removable to gain access to pre-motor filter. Rotational locking which connected airflow path from separator to motor
HCG 0493 PGB10	United Kingdom	1617520.0	14-Oct-2016			Project Tiger - Axis of dirt bin intersects axis of wand
HCG 0493 PGB2	United Kingdom	1617522.6	14-Oct-2016			Project Tiger - Motor exhaust - either side of motor
HCG 0493 PGB11	United Kingdom	1617524.2	14-Oct-2016			Project Tiger - Motor axle/axis perpendicular and offset from dirt bin axis (motor position relative to bin, also)
HCG 0493 PGB13	United Kingdom	1617525.9	14-Oct-2016			Project Tiger - Floor head - cable routing through hinging joint to wand
HCG 0617 PGB	United Kingdom	1701567.8	31-Jan-2017			Project Wolf / Gladiator refresh - low flow control valve HCG 0617 PGB
HCG 0493 PGB15	United Kingdom	1701587.6	31-Jan-2017			Project Tiger - Flap on inlet which adjoins ramp on inside of separator

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
HCG 0493 PGB5	United Kingdom	1701804.5	3-Feb-2017			Project Tiger - Floor head - feature which looks orientation of floor head to wand
HCG 0541 PGB	United Kingdom	1702939.6	23-Feb-2017			Project Sabretooth - Neck constriction - HCG 0541 PGB
HCG 0541 PGB	United Kingdom	1702960.4	23-Feb-2017			Project Sabretooth - Suction channels - HCG 0541 PGB
HCG 0480 PGB1	United Kingdom	1706294.4	20-Apr-2017			Project Lascaux - chamfered vortex finder outlets - HCG 0480 PGB1
HCG 0480 PGB2	United Kingdom	1717581.1	26-Oct-2017			Project Lascaux - construction of second stage separator - HCG 0480 PGB2
HCG 0480 PGB3	United Kingdom	1717584.5	26-Oct-2017			Project Lascaux - second stage cyclones sealed at upper and lower ends by single plates - HCG 0480 PGB3
HCG 0480 PGB4	United Kingdom	1717585.2	26-Oct-2017			Project Lascaux - cyclone dimensions - HCG 0480 PGB4
HCG 0480 PGB5	United Kingdom	1717586.0	26-Oct-2017			Project Lascaux - angled plate sealing second stage cyclones - HCG 0480 PGB5
HCG 0480 PGB7	United Kingdom	1717587.8	26-Oct-2017			Project Lascaux - channel formed in rib of shroud - HCG 0480 PGB7
HCG0602PGB	United Kingdom	1720287.0	5-Dec-2017			Aslan - baffle geometry and position on dirt bin lid
HCG0602PGB	United Kingdom	1720288.8	5-Dec-2017			Aslan - dimensions of skirt/separator/shroud
HCG0602PGB	United Kingdom	1720290.4	5-Dec-2017			Aslan - rotation of separator to open bin lid
HCG0602PGB	United Kingdom	1720294.6	5-Dec-2017			Aslan - release mechanism for dirt bin top removed as complete capsule
HCG 0602 PGB DIV	United Kingdom	1908336.9	5-Dec-2017			Aslan - baffle geometry and position on dirt bin lid
HCG 0493 PGB2 DIV	United Kingdom	1908651.1	14-Oct-2016			Project Tiger - L-shaped handle
HCG 0602 PGB	United Kingdom	1910031.2	19-Jun-2017			Project Aslan: Motor, separator and battery arrangement - HCG 0602 PGB
FDD0584P-2 US01	United States of America	15/867,268	8-Nov-2017			VACUUM CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0700P-15 US02	United States of America	16/220,757	14-Dec-2018			SURFACE CLEANING DEVICE WITH TRIGGERLESS FLUID DISTRIBUTION MECHANISM
FHV0709P-6 US01	United States of America	16/220,771	14-Dec-2018			SUPPORT STRUCTURE FOR A SURFACE CLEANING DEVICE
FDD0747P01	United States of America	16/428,583	31-May-2018			VACUUM CLEANER
HCG 0617 PWO	United States of America	16/481,560	29-Jul-2019			A SURFACE CLEANING APPARATUS
HCG 0493 US01	United States of America	16/482,360	31-Jul-2019			SURFACE CLEANING APPARATUS
HCG 0493 US01	United States of America	16/482,366	31-Jul-2019			SURFACE CLEANING APPARATUS
FHV0746P-1 US01	United States of America	16/482,786	1-Aug-2019			FLOOR CLEANER AND FLOOR CLEANING CHEMICAL
FHV0559P-21	United States of America	16/487,492	21-Aug-2019			FLEXING BATTERY LATCH (VERSA)
FHV0559P-23	United States of America	16/487,500	21-Aug-2019			BELLMOUTH PLENUM (VERSA)
FHV0559P-24	United States of America	16/487,502	21-Aug-2019			SENSOR OUTPUT TO APP (VERSA)
FHV0559P-25	United States of America	16/487,505	21-Aug-2019			DUST CUP LATCH (VERSA)
HCG 0541 PUS	United States of America	16/488,530	23-Aug-2019			AN ACCESSORY TOOL FOR A SURFACE CLEANING APPARATUS
HCG 0541 PUS	United States of America	16/488,560	9-Feb-2018			CLEANING NOZZLE FOR UPHOLSTERY FOR USE WITH A SURFACE CLEANING APPARATUS
FHV0549P-15	United States of America	16/489,962	29-Aug-2019			VACUUM CLEANER AND VACUUM CLEANING SYSTEM IN WIRELESS COMMUNICATION WITH A USER-CONTROLLED ELECTRONIC DEVICE
FHV0725P-11	United States of America	16/514,466	17-Jul-2019			VACUUM CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0700P-15 US03	United States of America	16/521,912	25-Jul-2019			SURFACE CLEANING DEVICE WITH TRIGGERLESS FLUID DISTRIBUTION MECHANISM
FHV0700P-15 US04	United States of America	16/521,916	25-Jul-2019			SURFACE CLEANING DEVICE WITH TRIGGERLESS FLUID DISTRIBUTION MECHANISM
FHV0700P-15 US05	United States of America	16/521,917	25-Jul-2019			SURFACE CLEANING DEVICE WITH TRIGGERLESS FLUID DISTRIBUTION MECHANISM
FHV0700P-15 US06	United States of America	16/521,920	25-Jul-2019			SURFACE CLEANING DEVICE WITH TRIGGERLESS FLUID DISTRIBUTION MECHANISM
FDD0734P-01	United States of America	16/531,823	5-Aug-2019			VACUUM CLEANER
FHV0750P04	United States of America	16/545,576	20-Aug-2019			BATTERY
FHP0737P11	United States of America	16/551,407	26-Aug-2019			FLOOR CLEANER
FHP0737P16	United States of America	16/551,413	26-Aug-2019			FLOOR CLEANER
FHP0737P5	United States of America	16/551,420	26-Aug-2019			FLOOR CLEANER
FHP0737P15	United States of America	16/551,430	26-Aug-2019			FLOOR CLEANER
FHP0737P3	United States of America	16/551,443	26-Aug-2019			FLOOR CLEANER
FHP0737P10	United States of America	16/551,473	26-Aug-2019			FLOOR CLEANER
FHP0737P4	United States of America	16/551,485	26-Aug-2019			FLOOR CLEANER
FHP0737P4	United States of America	16/551,490	26-Aug-2019			FLOOR CLEANER
FHP0737P4	United States of America	16/551,501	26-Aug-2019			FLOOR CLEANER
FHP0737P23	United States of America	16/551,510	26-Aug-2019			FLOOR CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0709P-4 US01	United States of America	16/566,057	10-Sep-2019			SUPPORT STRUCTURE FOR A SURFACE CLEANING DEVICE
FHV0748P08	United States of America	16/577,136	20-Sep-2019			PORTABLE EXTRACTOR
FHV0748P11	United States of America	16/577,156	20-Sep-2019			PORTABLE EXTRACTOR
FHV0748P3	United States of America	16/577,169	20-Sep-2019			CLEANING TOOL FOR AN EXTRACTOR
FHV0705P-18 US02	United States of America	16/610,581	4-Nov-2019			ROBOTIC VACUUM CLEANER
FHV0702P09 US01	United States of America	16/619,623	25-Jun-2018			VACUUM CLEANER
HCG 0480PUS	United States of America	16/656,813	18-Oct-2019			Project Lascoux - SUCTION CLEANER
FHV0737P-25	United States of America	16/656,844	18-Oct-2019			FLOOR CLEANER
FOR0572	United States of America	16/679,866	11-Nov-2019			VACUUM CLEANER AND FILTER FOR A VACUUM CLEANER
FHV0700P-15 US08	United States of America	16/688,253	19-Nov-2019			SURFACE CLEANING DEVICE WITH AUTOMATED SUCTION CONTROL
FHV0700P-15 US07	United States of America	16/688,262	19-Nov-2019			SURFACE CLEANING DEVICE WITH AUTOMATED CONTROL
FHV0748P-13 US02	United States of America	16/711,947	12-Dec-2019			PORTABLE EXTRACTOR
FHV0748P-14 US02	United States of America	16/712,024	12-Dec-2019			FLOOR CLEANER
FHV0737D-2 US02	United States of America	29/673,377	13-Dec-2018			FLOOR CLEANER
FCO0759D-1	United States of America	29/681,676	27-Feb-2019			FLOOR CLEANER
HCG 0602	United States of America	29/681,683	27-Feb-2019			SURFACE CLEANING APPARATUS
FCO0760D-1	United States of America	29/681,705	27-Feb-2019			BATTERY
FDD0584P-2 US00	United States of America	62/419,231	8-Nov-2016			VACUUM CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV054P13	United States of America	62/466,502	3-Mar-2017			VACUUM CLEANER INCLUDING REMOVABLE CANISTER ASSEMBLY
FHV0549P-16	United States of America	62/466,511	3-Mar-2017			VACUUM CLEANER INCLUDING A SURFACE CLEANING HEAD HAVING A DISPLAY
FHV0549P-15	United States of America	62/466,512	3-Mar-2017			VACUUM CLEANER AND VACUUM CLEANING SYSTEM IN WIRELESS COMMUNICATION WITH A USER-CONTROLLED ELECTRONIC DEVICE
FHV0549P-15	United States of America	62/466,518	3-Mar-2017			VACUUM CLEANER AND VACUUM CLEANING SYSTEM IN WIRELESS COMMUNICATION WITH A USER-CONTROLLED ELECTRONIC DEVICE
FHV0705P18 US01	United States of America	62/505,143	8-May-2017			ROBOTIC VACUUM CLEANER
FHV0702P09 US01	United States of America	62/528,815	5-Jul-2017			VACUUM CLEANER
FHV0700P-15 US01	United States of America	62/607,099	18-Dec-2017			SURFACE CLEANING DEVICE WITH TRIGGERLESS FLUID DISTRIBUTION MECHANISM
FHV0709P-6 US00	United States of America	62/608,968	21-Dec-2017			SUPPORT STRUCTURE FOR A SURFACE CLEANING DEVICE
FDD0747P01	United States of America	62/678,537	31-May-2018			VACUUM CLEANER
FHV0725P-11	United States of America	62/700,495	19-Jul-2018			VACUUM CLEANER
FDD0734P-01	United States of America	62/714,857	6-Aug-2018			VACUUM CLEANER
FHV0750P4	United States of America	62/720,504	21-Aug-2018			BATTERY
FHV0737P11	United States of America	62/723,327	27-Aug-2018			FLOOR CLEANER
FHV0737P16	United States of America	62/723,329	27-Aug-2018			FLOOR CLEANER
FHV0737P5	United States of America	62/723,330	27-Aug-2018			FLOOR CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0737P15	United States of America	62/723,333	27-Aug-2018			FLOOR CLEANER
FHV0737P3	United States of America	62/723,340	27-Aug-2018			FLOOR CLEANER
FHV0737P10	United States of America	62/723,343	27-Aug-2018			FLOOR CLEANER
FHV0737P4	United States of America	62/723,345	27-Aug-2018			FLOOR CLEANER
FHV0737P23	United States of America	62/723,348	27-Aug-2018			FLOOR CLEANER
FHV0748P08	United States of America	62/734,760	21-Sep-2018			PORTABLE EXTRACTOR
FHV0748P11	United States of America	62/734,769	21-Sep-2018			PORTABLE EXTRACTOR
FHV0748P3	United States of America	62/734,775	21-Sep-2018			CLEANING TOOL FOR AN EXTRACTOR
FHV0737P25	United States of America	62/749,839	14-Oct-2018			FLOOR CLEANER
FHV0753P-2 US00	United States of America	62/769,348	19-Nov-2018			SURFACE CLEANING DEVICE FOR GENERATING SURFACE IDENTIFYING FINGERPRINT
FHV0748P3	United States of America	62/778,095	11-Dec-2018			CLEANING TOOL FOR AN EXTRACTOR
FCO0739P-01 US01	United States of America	62/783,588	21-Dec-2018			SYSTEM AND METHOD FOR PROVIDING POWER TO A MOTOR
FHV0748P-14 US01	United States of America	62/784,075	21-Dec-2018			FLOOR CLEANER
FHV0748P-13 US01	United States of America	62/786,090	28-Dec-2018			PORTABLE EXTRACTOR
FHV0737P4	United States of America	62/808,527	21-Feb-2019			FLOOR CLEANER
FHV0737P3	United States of America	62/824,032	26-Mar-2019			FLOOR CLEANER
FHV0737P4	United States of America	62/824,043	26-Mar-2019			FLOOR CLEANER

Reference No.	Country	Application Number	Application Date	Registration Number	Registration Date	Title
FHV0770P-01	United States of America	62/876,233	19-Jul-2019			FLOOR CLEANER
FHV0768P-01	United States of America	62/906,545	26-Sep-2019			FLOOR CLEANER
FHV0766C-01	United States of America	62/910,193	3-Oct-2019			SYSTEM AND METHOD FOR CONTROLLING A MOTOR AT A CONSTANT ROTATIONS PER MINUTE (RPM)
FOR0758P-02	United States of America	62/925,570	24-Oct-2019			POWER SWITCH INDICATOR AND METHOD OF OPERATING THE SAME
FHV0769P-3	United States of America	62/928,673	31-Oct-2019			SEPARATOR CONFIGURATION FOR A FLOOR CLEANER
FHV0769P-4	United States of America	62/928,678	31-Oct-2019			BRUSHROLL FOR A FLOOR CLEANER
FHV0769P-1	United States of America	62/928,686	31-Oct-2019			FLOOR CLEANER
FHV0700P-22	United States of America	62/928,689	31-Oct-2019			SURFACE CLEANING EXTRACTOR
FHV0757P-10	United States of America	62/937,952	20-Nov-2019			FLOOR CLEANER
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