

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI467521

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Genesis Motion Solutions, ULC	06/24/2024
RECEIVING PARTY DATA	
Company Name:	1478021 B.C. Ltd
Street Address:	Unit 101 – 6554 176 Street
City:	Surrey BC
State/Country:	CANADA
Postal Code:	V3S 4G5
PROPERTY NUMBERS Total: 15	
Property Type	Number
Application Number:	15291808
Application Number:	15235095
Application Number:	15234961
Application Number:	15235036
Application Number:	15235071
Application Number:	15235091
Application Number:	15235097
Application Number:	15235088
Application Number:	16574092
Application Number:	16317726
Application Number:	16317756
Application Number:	17985152
Application Number:	18487504
Application Number:	16649048
Application Number:	16764845
CORRESPONDENCE DATA	
Fax Number:	7037392815
<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:	+44(207392-4122

Email: recordals@clarivate.com
Correspondent Name: CPA GLOBAL LIMITED
Address Line 1: LIBERATION HOUSE
Address Line 2: CASTLE STREET
Address Line 4: ST HELIER, JERSEY JE1 1BL

ATTORNEY DOCKET NUMBER: IPR/NL/Genesi240717120930

NAME OF SUBMITTER: Helen Birrell

SIGNATURE: Helen Birrell

DATE SIGNED: 09/01/2024

Total Attachments: 33

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PATENT ASSIGNMENT

WHEREAS, Genesis Motion Solutions, ULC, a British Columbia corporation having a place of business at 1600-925 West Georgia Street, Vancouver BC V6C 3L2 Canada ("Assignor"), owns the patents applications and patents listed on the attached Schedule A; and

WHEREAS, 1478021 B.C. Ltd, a British Columbia corporation company having a place of business at Unit 101 – 6554 176 Street, Surrey BC V3S 4G5, Canada ("Assignee"), desires acquiring or has acquired Assignor's interest in the above-identified patent applications and patents; and

WHEREAS, Assignor hereby authorizes Assignee to file any of the above-referenced patent applications in the name of Assignee, and Assignor authorizes and requests the patent office of any country to issue any patent granted from any of the above-referenced patent applications in the name of Assignee, subject to the condition that Assignee will be solely responsible for any fees, costs, or expenses associated with such filings and issuance.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor by this Assignment does hereby sell, assign, and transfer, or via other applicable agreements has sold, assigned, and transferred to Assignee, Assignor's entire right, title, and interest in and to the above-identified patent applications, patents, industrial design applications and industrial design registrations and all improvements and modifications to the above-identified patent applications, patents, industrial design applications and industrial design registrations, any U.S. or foreign patent applications or industrial design applications related to the above-identified patent applications, patents, industrial design applications and industrial design registrations, any U.S. or foreign patent applications or industrial design applications claiming priority to any of the above-referenced patent applications, patents, industrial design applications and industrial design registrations, including any nonprovisional, divisional, continuation, continuation-in-part, reexamination, reissue, extension, substitution, or renewal of any of the above-referenced patent applications or industrial design applications, any right to claim priority arising from or required for any of the above-referenced patent applications, patents, industrial design applications and industrial design registrations under any applicable convention, treaty, statute, or regulation, any other right, privilege, or form of protection related to the above-identified inventions or any of the above-referenced patent applications, patents, industrial design applications and industrial design registrations, and any U.S. or foreign patent or industrial design registration granted from any of the above-referenced patent applications and industrial design applications, to the full end of the term of the patent, to be held and enjoyed by Assignee as fully and entirely as it would have been held and enjoyed by Assignor, including the right to pursue, collect, and retain damages and any other remedies arising from any past, present, or future infringement of the above-identified patent applications, patents, industrial design applications and industrial design registrations, and any other rights assigned by this Assignment.

Assignor and Assignee agree that this Assignment may be electronically signed, and that the electronic signatures appearing on this Assignment are the same as handwritten signatures for the purposes of validity, enforceability and admissibility.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed as of the date first written above by their respective officers thereunto duly authorized.

ASSIGNOR:

Genesis Motion Solutions, ULC

Signature: _____

Name: Bill Fitzer

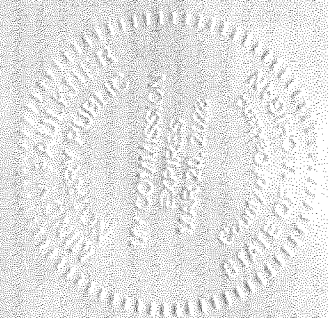
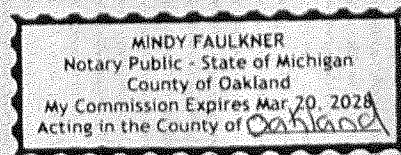
Title: President and Director

STATE OF Michigan }
COUNTY OF Oakland }

On the 24 day of June, 2024, before me, a notary public in and for said State, personally appeared Bill Fitzer known to me to be President of Genesis Motion Solutions, ULC, that executed the within instrument, and also known to me to be the person who executed it on behalf of such entity, and acknowledged to me that such entity executed the within instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Mindy Faulkner
Notary Public



ASSIGNEE:
1478021 B.C. Ltd

Signature: 

Name: MICHAEL GIBNEY

Title: OFFICER & DIRECTOR

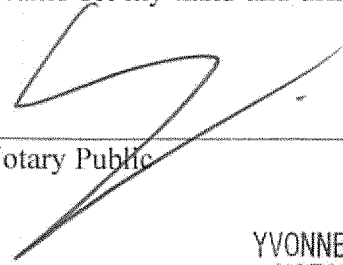
CANADA)

PROVINCE OF BRITISH COLUMBIA)

DISTRICT OF SUMMERLAND)

On the 3rd day of July, 2024, before me, a notary public in and for said Province, personally appeared Michael Gibney, who on the basis of the identification provided to me, I believe to be the person named in the document, and who, on the basis of the records provided to me, I believe holds the title of Director/Officer of 1478021 B.C. Ltd, and that the within instrument was executed in my presence.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.



Notary Public

YVONNE L. WHITING
NOTARY PUBLIC
13219 Victoria Road North
Summerland, BC V0H 1Z0

Schedule A

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Actuator (flexures)	2877403	2877403		Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	201380039142.2	104769236	ZL201380039142.2	China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	13806206.2	2861837	602013059524.0	Germany	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	13806206.2	2861837	2861837	European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	13806206.2	2861837	2861837	United Kingdom	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	23641714	236417		Israel	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	2015-517567	2015-527853	6340701	Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Actuator (flexures)	MX/A/2014/016060	2014016060		Mexico	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	13806206.2	2861837	2861837	Netherlands	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR USING EXPANSION OR CONTRACTION TO PRODUCE LINEAR OR ROTARY MOTION	14/409973	US20150198222A1	9945458	United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	61/661802			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Actuator (flexures)	PCT/CA2013/050472	WO2013188976		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Flex Spline Torque Transfer Device	2948313	2948313		Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Flex Spline Torque Transfer Device	15/309437	US20170184190A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Flex Spline Torque Transfer Device	61/989515			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Flex Spline Torque Transfer Device	62/006045			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Flex Spline Torque Transfer Device	62/035489			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Flex Spline Torque Transfer Device	PCT/CA2015/050401	WO2015168793		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	2919403	2919403		Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform	201680020267.4	107614365	CN107614365B	China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	16742626.1	3250448	602016041390.6	Germany	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Mobile Platform	16742626.1	3250448	3250448	European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	16742626.1	3250448	3250448	France	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform	16742626.1	3250448	3250448	United Kingdom	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	253765			Israel	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	2017-540625	2018-508404		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	16742626.1	3250448	3250448	Netherlands	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform	15/937,332	US-2018-0312205-A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Mobile Platform (Rover)	15/012664	US20160251044A1	9957002	United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	62/110582			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Mobile Platform (Rover)	PCT/CA2016/050084	WO2016119068		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	2016304787	2016304787	2016304787	Australia	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	1120180029580	1120180029580		Brazil	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	2995286	2995286		Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	202110364900.4	CN113078749A	CN113078749B	China	Grant	Genesis Motion Solutions, ULC
ELECTRIC MACHINE	201680042809.8	CN108028554A	CN108028554B	China	Grant	Genesis Motion Solutions, ULC
ELECTRIC MACHINE	16834369.7	3335299		European Procedure (Patents)	Publication of application	Genesis Motion Solutions, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Electric machine (Live Drive - equations)	P00201801019			Indonesia	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	201847008905	201847008905		India	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	2018-507606	2018-529302		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	10-2018-7007025	10-2018-0093872		South Korea / Republic of Korea	Withdrawal	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	MX/a/2018/001782			Mexico	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	2018108629			Russian Federation	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	15/291808	US2017-0047795A1	9748804	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	15/291867	US20170126079A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
ELECTRIC MACHINE	16/592767	US2020-0161912A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	15/235095	US2017-0047794A1	9742226	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	15/234961	US2017-0047792A1	9755463	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	15/235036	US2017-0047798A1	10075030	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	15/235071	US20170133891A1	9748803	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	15/235091	US2017-0047793A1	9742225	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	15/235097	US2017-0047821A1	9742227	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	15/235088	US2017-0187254A1	10476323	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (Live Drive - equations)	62/203903			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	62/209333			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	62/292860			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Electric machine (Live Drive - equations)	62/322217			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	62/363202			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine (Live Drive - equations)	PCT/CA2016/050947	WO2017024409		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Exoskeleton Suit with hand control to enable walking	2948310	2948310		Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Exoskeleton Suit	2016-566938	2017-518098A		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
EXOSKELETON SUIT WITH HAND CONTROL TO ENABLE WALKING	15/309422	20170181916A1	10369071	United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Exoskeleton Suit	61/988888			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Exoskeleton Suit	PCT/CA2015/050394	WO/2015/168788		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
AXIAL FLUX ELECTRIC MACHINE COMPRISING A RADIALY INNER THRUST BEARING AND A RADIALY OUTER THRUST BEARING	3020654			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Axial flux electric machine comprising a radially inner thrust bearing and a radially outer thrust bearing	202011074252.0	CN112234752A		China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Axial flux electric machine comprising a radially inner thrust bearing and a radially outer thrust bearing	201780028321.4	CN109314436A	CN109314436B	China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Axial flux electric machine comprising a radially inner thrust bearing and a radially outer thrust bearing	17781694.9	3443642		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
AXIAL FLUX ELECTRIC MACHINE COMPRISING A RADIALY INNER THRUST BEARING AND A RADIALY OUTER THRUST BEARING	2020-147395	2020-205745		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
AXIAL FLUX ELECTRIC MACHINE COMPRISING A RADIALY INNER THRUST BEARING AND A RADIALY OUTER THRUST BEARING	2018-554376	2019-511899	6759359	Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Axial flux electric machine comprising a radially inner thrust bearing and a radially outer thrust bearing	10-2018-7032026	KR20190006172 A	10-2157148	South Korea / Republic of Korea	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	16/574092	US2020-0028390A1	11128188	United States Of America	Grant	Genesis Motion Solutions, ULC
ELECTRIC MACHINE	15/487411	US20170338705A1	10461592	United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Inner and outer bearings	62/460086			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Inner and outer bearings	PCT/CA2017/050470	WO2017177341		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE COMPRISING AXIAL THRUST BEARINGS	3020656			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine comprising axial thrust bearings	201780029653.4	CN109155568A	CN109155568B	China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine comprising axial thrust bearings	17798434.1	3443643		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
ELECTRIC MACHINE COMPRISING AXIAL THRUST BEARINGS	2018-554377	2019-511900		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric machine comprising axial thrust bearings	10-2018-7032027			South Korea / Republic of Korea	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine Comprising Axial Thrust Bearings	16/093092	US2019-0214883A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Uniformly loaded bearing	PCT/CA2017/050471	WO2017197497		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine (magnet alignment, tapered magnets)	PCT/CA2017/050856	WO2018010030		International Procedure	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Axial gap electric machine with permanent magnets arranged between posts	3030311			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Axial gap electric machine with permanent magnets arranged between posts	201780049743.X	CN109565188A	CN109565188B	China	Grant	Genesis Motion Solutions, ULC
AXIAL GAP ELECTRIC MACHINE WITH PERMANENT MAGNETS ARRANGED BETWEEN POSTS	17826733.2	3485556		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
AXIAL GAP ELECTRIC MACHINE WITH PERMANENT MAGNETS ARRANGED BETWEEN POSTS	2019-523149	2019-525720	6823174	Japan	Grant	Genesis Motion Solutions, ULC
AXIAL GAP ELECTRIC MACHINE WITH PERMANENT MAGNETS ARRANGED BETWEEN POSTS	10-2019-7004380	10-2019-0029668	10-2208324	South Korea / Republic of Korea	Grant	Genesis Motion Solutions, ULC
AXIAL GAP ELECTRIC MACHINE WITH PERMANENT MAGNETS ARRANGED BETWEEN POSTS	16/317726	US2019-0288580A1	11139707	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric machine (flux restrictors, integrated races)	PCT/CA2017/050857	WO2018010031		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine (Amplified Magnetic Rotor)	3034707			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine	201780055379.8	CN109690911A	CN109690911B	China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	17838273.5	3497779		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine	2019-507837	2019-528666	6848050	Japan	Grant	Genesis Motion Solutions, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
ELECTRIC MACHINE	10-2019-7006650	10-2019-0034659	10-2225323	South Korea / Republic of Korea	Grant	Genesis Motion Solutions, ULC
Electric Machine	17/326325	US2021-0273509A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine	16/324448	US2020-0144880A1	11043862	United States Of America	Grant	Genesis Motion Solutions, ULC
Electric Machine (Amplified Magnetic Rotor)	PCT/CA2017/050957	WO2018027330		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
FLEX SPLINE ACTUATOR	15/351337	US20170321790A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Flex spline torque transfer device	62/333636			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Rotary Actuator (High Speed)	3030064			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ROTARY ACTUATOR	201780044427.3	CN109478806A	CN109478806B	China	Grant	Genesis Motion Solutions, ULC
Rotary Actuator	17826734.0	3485557		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Rotary Actuator	2019-523150	2019-522458	6868690	Japan	Grant	Genesis Motion Solutions, ULC
ROTARY ACTUATOR	10-2019-7002070	10-2019-0021375	10-2197474	South Korea / Republic of Korea	Grant	Genesis Motion Solutions, ULC
Rotary Actuator	16/317756	US2019-0288587A1	11043885	United States Of America	Grant	Genesis Motion Solutions, ULC
Rotary Actuator (High Speed)	PCT/CA2017/050858	WO2018/010032		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Robotic System	62/625087			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	3054744			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	201880021685.4	CN 110536779 A		China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	18775625.9	3600787		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	2020-500936	2020-512206		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
ROBOT ARM	10-2019-7028057	10-2019-0121822		South Korea / Republic of Korea	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	16/497443	US2021-0402591A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Brobot	62/476853			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	62/488809			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	62/489327			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	62/502587			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ROBOT ARM	PCT/CA2018/050367	WO2018/176131		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Master-Slave control	62/481106			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
MASTER SLAVE CONTROL FOR ROBOT ARM	62/652667			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	62/508346			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Linear motor arm (hexapod)	62/511956			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Linear motor arm (hexapod)	62/522684			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MAGNETICALLY ACTUATED BRAKE	3062451			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	3056721			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MAGNETICALLY ACTUATED BRAKE	201880034213.2	CN110662905A	CN110662905B	China	Grant	Genesis Motion Solutions, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	201880028161.8	CN110574256A		China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MAGNETICALLY ACTUATED BRAKE	18809222.5	3631229		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	18808727.4	3631947		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	21188907.6	3920375		European Procedure (Patents)	Withdrawal	Genesis Robotics and Motion Technologies Canada, ULC
MAGNETICALLY ACTUATED BRAKE	2020-515793	2020-522660		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	2019-557355	2020-522214	7094982	Japan	Grant	Genesis Motion Solutions, ULC
MAGNETICALLY ACTUATED BRAKE	10-2019-7036434	10-2020-0015537		South Korea / Republic of Korea	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	10-2019-7036435	10-2020-0015903	10-2328284	South Korea / Republic of Korea	Grant	Genesis Motion Solutions, ULC
MAGNETICALLY ACTUATED BRAKE	16/617502	US2020-0109754A1	11187293	United States Of America	Grant	Genesis Motion Solutions, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	16/618107	US2020-0112219A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Air Flow/Self Cooling Rotor	62/513415			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Air Flow/Self Cooling Rotor	62/513432			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Air Flow/Self Cooling Rotor	62/513421			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Air Flow/Self Cooling Rotor	62/513436			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Air Flow/Self Cooling Rotor	62/550680			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Air Flow/Self Cooling Rotor	62/551774			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
MAGNETICALLY ACTUATED BRAKE	PCT/CA2018/050651	WO 2018/218367 A1		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
INSERTS FOR CARRIERS FOR ELECTRIC MACHINES	PCT/CA2018/050649	WO/2018/218366		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Magnetically Actuated Brake	62/514003			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Magnetically Actuated Brake	62/599685			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
LD Power Steering	62/521370			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Torque Amplifier	201880039090.1	CN110741181A		China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Torque Amplifier	18818606.8	3638971		European Procedure (patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTROMAGNETICALLY OPERATED BAND BRAKE	16/621694	US2020-0124163A1	11391366	United States Of America	Grant	Genesis Motion Solutions, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Torque Amplifier	62/521447			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Torque Amplifier	62/534484			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Torque Amplifier	PCT/IB2018/054480	WO/2018/229737		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Corrugated stator	3053590			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Corrugated stator	201880019963.2	CN110462977A		China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Corrugated stator	18776421.2	3602735		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
CORRUGATED STATOR	2019-553070	2020-512805		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Corrugated stator	10-2019-7028885	10-2019-0120354		South Korea / Republic of Korea	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
CORRUGATED STATOR	16/498387	US2020-0076279A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
3DP stator	62/478022			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
3DP stator	PCT/CA2018/050385	WO/2018/176146		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Interdigitated Rotor (Radial Actuator)	62/535805			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Wheelchair (freestyle)	62/555025			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MOBILITY DEVICE	62/704018			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	3076279			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	201880061399.0	CN111164867A	CN111164867B	China	Grant	Genesis Motion Solutions, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	18859246.3	3685497		European Procedure (Patents)	Publication of application	Genesis Motion Solutions, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	2020-514498	2020-535777		Japan	Fee due/Inactive/Abandoned/Expired	Genesis Motion Solutions, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	10-2020-7007447	10-2020-0060364		South Korea / Republic of Korea	Publication of application	Genesis Motion Solutions, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	17/985152	US2023-0072406A1	11791682	United States Of America	Grant	Genesis Motion Solutions, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	18/487504	US2024-0120791A1		United States Of America	Publication of application	Genesis Motion Solutions, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	16/649048	US2020-0220403A1	11527931	United States Of America	Grant	Genesis Motion Solutions, ULC
Radial MultiPiece Rotor	62/562486			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
RADIAL MULTI PIECE ROTOR FOR ELECTRIC MACHINE	PCT/IB2018/057373	WO/2019/058347		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Rover - Transport Model with Boom	62/564255			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MAGNETIC COUNTERBALANCE	18860790.7	3687746		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MAGNETIC BIASING ASSEMBLY	16/651441	US20200282552 A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Magnetic Counterbalance	62/565331			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
MAGNETIC BIASING ASSEMBLY	PCT/IB2018/057524	WO/2019/064239		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Radial Motor	62/571240			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Radial Motor	62/729773			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
ELECTRIC MOTOR WITH INTEGRATED BRAKE	3074586			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MOTOR WITH INTEGRATED BRAKE	201880064613.8	CN111194517A		China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MOTOR WITH INTEGRATED BRAKE	18880497.5	3714530		European Procedure (Patents)	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MOTOR WITH INTEGRATED BRAKE	2020-521317			Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MOTOR WITH INTEGRATED BRAKE	10-2020-7011174			South Korea / Republic of Korea	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MOTOR WITH INTEGRATED BRAKE	16/764845	US2020-0343788A1	11289972	United States Of America	Grant	Genesis Motion Solutions, ULC
Actuator	62/589548			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MOTOR WITH INTEGRATED BRAKE	PCT/IB2018/059187	WO/2019/102378		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
A MOTOR AND SPEED CONVERTOR ARRANGEMENT	PCT/IB2018/059186	WO/2019/102377		International Procedure	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Integrated Encoder	62/590356			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MULTI AXIS ROBOT	201880079578.7	CN111448037A		China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
MULTI AXIS ROBOT	18887469.7	3723949		European Procedure (Patents)	Withdrawal	Genesis Robotics and Motion Technologies Canada, ULC
MULTI AXIS ROBOT	16/770960	US2021-0162597A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
High Speed Scarra Robot	62/591745			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Multi-axis Robot	62/597203			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
High Speed Scara Robot	62/610185			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
High Speed Scara Robot	PCT/IB2018/059721	WO/2019/116179		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Short circuit brake	62/599681			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Short circuit brake	62/599899			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Exoskeleton Hinge Joint	62/607896			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Exoskeleton Hinge Joint				International Procedure	Closed	Genesis Robotics and Motion Technologies Canada, ULC
Axial Flux Motor/Actuator and Proprietary Sensing	62/612290			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Electric Machine with Integrated Gearbox	62/531346			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine with Integrated Gearbox	PCT/IB2018/055087	WO 2019/012431		International Procedure	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator Stator	16/960901	US2020-0350798A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Actuator Stator	62/618600			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Actuator Stator	PCT/CA2018/050182	WO/2019/140505		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Tapered Radial Motor Pairs coupled to Speed Reducers	62/586869			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electromagnetic Motor	62/504024			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Harmonic Differential and Cooled Electrosmagnet	62/487232			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Harmonic Differential and Cooled Electrosmagnet	PCT/CA2018/050471			International Procedure	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Fan	62/523246			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Coupled actuator - gear reducer	62/558320			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Coupled actuator - gear reducer	62/728243			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR WITH SPEED REDUCER	3062445			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR WITH SPEED REDUCER				China	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
ACTUATOR WITH SPEED REDUCER	18810331.1	3631244		European Procedure (Patents)	Withdrawal	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR WITH SPEED REDUCER	2020-515792			Japan	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR WITH SPEED REDUCER				South Korea / Republic of Korea	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR WITH SPEED REDUCER	16/616493	US2020-0088268A1		United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR WITH SPEED REDUCER	62/513,431			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ACTUATOR WITH SPEED REDUCER	PCT/CA2018/050646	WO/2018/218363		International Procedure	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
ROBOTIC ARM	176118			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ROBOTIC ARM	29/613712		D841710	United States Of America	Grant	Genesis Motion Solutions, ULC

Title	Filing Number	Publication Number	Grant Number	Country	Current Status	Legal Owners
Robot Arm with Inline Rotary Actuator (GAT Owned)	62/537281			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Low Cost Motor	2995528			Canada	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Low Cost Motor	62/623541			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ASSEMBLY ROBOT	62/634174			United States Of America	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine Magnet Insertion	62/619088			United States Of America	Expiry date	Genesis Robotics and Motion Technologies Canada, ULC
Electric Machine Magnet Insertion	PCT/IB2019/050364	WO/2019/142116		International Procedure	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC
ELECTRIC MACHINE	PCT/CA2018/050181	WO2018/148842		International Procedure	Fee due/Inactive/Abandoned/Expired	Genesis Robotics and Motion Technologies Canada, ULC