

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7363616

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
COMPUTERSHARE TRUST COMPANY OF CANADA	05/18/2022

RECEIVING PARTY DATA

Name:	NEPTUNE OPERATIONS LTD.
Street Address:	1300 WEST 120 AVENUE
City:	WESTMINSTER
State/Country:	COLORADO
Postal Code:	80234

PROPERTY NUMBERS Total: 46

Property Type	Number
Patent Number:	6749533
Patent Number:	6969030
Patent Number:	7860301
Patent Number:	7756615
Patent Number:	7996110
Patent Number:	8491603
Patent Number:	8074935
Patent Number:	8090491
Patent Number:	8444631
Patent Number:	8031909
Patent Number:	8031933
Patent Number:	9115867
Patent Number:	8702341
Patent Number:	8181911
Patent Number:	8515576
Patent Number:	8260483
Patent Number:	8532368
Patent Number:	8781790
Patent Number:	8196870
Patent Number:	8448904

PATENT

Property Type	Number
Patent Number:	9285481
Patent Number:	9676096
Patent Number:	8693730
Patent Number:	8899527
Patent Number:	9108747
Patent Number:	9399295
Patent Number:	9333041
Patent Number:	9255790
Patent Number:	9101267
Patent Number:	9339935
Patent Number:	9260206
Patent Number:	9791555
Patent Number:	9669950
Patent Number:	10427808
Patent Number:	9567111
Patent Number:	9688422
Patent Number:	9764478
Patent Number:	10005180
Patent Number:	9950424
Patent Number:	10513354
Application Number:	15645929
Application Number:	15829619
Application Number:	15849225
Application Number:	15849427
Application Number:	62869943
Patent Number:	D508565

CORRESPONDENCE DATA

Fax Number: (617)345-3299

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (617) 345-3000

Email: mschepper@burnslev.com

Correspondent Name: MARLO SCHEPPER GROLNIC

Address Line 1: BURNS & LEVINSON LLP

Address Line 2: 125 HIGH STREET

Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER: 43151.55

NAME OF SUBMITTER: MARLO SCHEPPER GROLNIC

SIGNATURE:	/Marlo Schepper Grolnic/
DATE SIGNED:	06/03/2022
Total Attachments: 11 source=Patent Release - MDAI#page1.tif source=Patent Release - MDAI#page2.tif source=Patent Release - MDAI#page3.tif source=Patent Release - MDAI#page4.tif source=Patent Release - MDAI#page5.tif source=Patent Release - MDAI#page6.tif source=Patent Release - MDAI#page7.tif source=Patent Release - MDAI#page8.tif source=Patent Release - MDAI#page9.tif source=Patent Release - MDAI#page10.tif source=Patent Release - MDAI#page11.tif	

May 18 _____, 2022

TO WHOM IT MAY CONCERN

Dear Sirs:

Re: Second Lien Secured Note Indenture dated April 8, 2020 between Neptune Operations Ltd. (formerly Neptune Acquisition Inc.), and Computershare Trust Company of Canada (in its capacity as trustee under the Indenture) (the "Trustee) as amended by the first supplemental indenture dated as of June 17, 2020, the second supplemental indenture dated as of July 7, 2021 and the third supplemental indenture dated as of May 4, 2022 (the "Indenture")

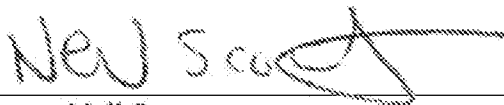
Discharge of Security Interests

The Trustee hereby fully and finally releases its security interests held pursuant to the Indenture from any and all patents and patent applications now or previously held by MacDonald, Dettwiler and Associates Inc. and/or its successors and assigns, including without limitation the patents and patent applications as set out in the attached Schedule A.

Yours very truly,

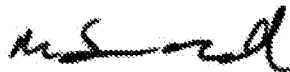
COMPUTERSHARE TRUST COMPANY OF CANADA, AS TRUSTEE

Per:



Name: Neil Scott

Title: Corporate Trust Officer



Name: Mohanie Shivprasad

Title: Associate Trust Officer

Schedule A

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
Canada						
1.	MacDonald, Dettwiler and Associates Inc.	Spacecraft Docking Mechanism	CA2473981A	2004-07-14	CA2473981C	2012-11-27
2.	MacDonald, Dettwiler and Associates Inc.	Traffic Management System for a Passageway Environment	CA2612921A	2006-07-26	CA2612921C	2016-08-30
3.	MacDonald, Dettwiler and Associates Inc.	Guidance, navigation, and control system for a vehicle	CA2616613A	2006-07-26	CA2616613C	2013-10-22
4.	MacDonald, Dettwiler and Associates Inc.	Surgical Manipulator	CA2655431A	2007-06-14	CA2655431C	2014-10-21
5.	MacDonald, Dettwiler and Associates Inc.	Serially Jointed Manipulator Arm	CA2860487A	2007-06-14	CA2860487C	2019-03-26
6.	MacDonald, Dettwiler and Associates Inc.	Satellite refuelling system and method	CA2680364A	2008-03-10	CA2680364C	2014-06-10
7.	MacDonald, Dettwiler and Associates Inc.	Satellite refuelling system and method	CA2831692A	2008-03-10	CA2831692C	2015-01-27
8.	MacDonald, Dettwiler and Associates Inc.	Return pulse shape analysis for falling edge object discrimination of aerosol LIDAR	CA2742687	2008-11-05	CA2742687C	2013-07-30

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
9.	MacDonald, Dettwiler and Associates Inc.	Surgical manipulator	CA2709634A	2008-12-22	CA2709634C	2017-04-25
10.	MacDonald, Dettwiler and Associates Inc.	Scalable common interface plate system (SCIPS)	CA2789117A	2011-02-15	CA2789117C	2016-11-01
11.	MacDonald, Dettwiler and Associates Inc.	Scalable common interface plate system (SCIPS)	CA2936099A	2011-02-15	CA2936099C	2017-06-13
12.	MacDonald, Dettwiler and Associates Inc.	Wide angle bistatic scanning optical ranging sensor	CA2815393	2011-10-18	CA2815393C	2019-02-19
13.	MacDonald, Dettwiler and Associates Inc.	Dual reflector system for linear lamp illuminators	CA2824198A	2011-10-19	CA2824198C	2017-02-21
14.	MacDonald, Dettwiler and Associates Inc.	High speed 360 degree scanning LIDAR head	CA2871502A	2012-04-26	-	-
15.	MacDonald, Dettwiler and Associates Inc.	Robotic servicing multifunctional tool	CA2850850A	2012-10-15	CA2850850C	2019-11-26
16.	MacDonald, Dettwiler and Associates Inc.	Propellant transfer system and method for resupply of propellant to on-orbit spacecraft	CA2854375A	2012-11-15	CA2854375C	2019-05-07
17.	MacDonald, Dettwiler and Associates Inc.	Method of real-time tracking of moving/flexible surfaces	CA2854829A	2012-11-15	CA2854829C	2019-07-02

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
18.	MacDonald, Dettwiler and Associates Inc.	System and tool for accessing satellite fill/drain valves during propellant resupply	CA2856077A	2012-12-05	CA2856077C	2018-05-01
19.	MacDonald, Dettwiler and Associates Inc.	Spacecraft capture mechanism	CA2917649A	2013-03-19	CA2917649C	2018-05-29
20.	MacDonald, Dettwiler and Associates Inc.	Spacecraft capture mechanism	CA2867476A	2013-03-19	CA2867476C	2016-01-26
21.	MacDonald, Dettwiler and Associates Inc.	A Wearable Object Locator And Imaging System	CA2824104A	2013-08-20	CA2824104C	2019-11-12
22.	MacDonald, Dettwiler and Associates Inc.	Method of real-time tracking of moving/flexible surfaces	CA3041707A	2012-11-15	-	-
23.	MacDonald, Dettwiler and Associates Inc.	Spacecraft capture mechanism	CA2945386A	2015-05-04	-	-
24.	MacDonald, Dettwiler and Associates Inc.	Payload ejection system	CA2946333A	2015-05-19	-	-
25.	MacDonald, Dettwiler and Associates Inc.	System and method for automated artificial vision guided dispensing viscous fluids for caulking and sealing operations	CA3029111A	2017-07-10	-	-

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
26.	MacDonald, Dettwiler and Associates Inc.	Actuated resettable shockless hold down and release mechanism (ARES HDRM)	CA3046252A	2017-12-20	-	-
27.	MacDonald, Dettwiler and Associates Inc.	Unobtrusive driving assistance method and system for a vehicle to avoid hazards	CA3043940A1	2017-12-20	-	-
28.	MacDonald, Dettwiler and Associates Inc.	Robotic Livery Printing System	CA3062036A1	2018-08-24	-	-
United States						
1.	MacDonald, Dettwiler and Associates Inc.	Gearbox	US10153600A	2002-05-24	US6749533B2	2004-06-15
2.	MacDonald, Dettwiler and Associates Inc.	Spacecraft docking mechanism	US10890513A	2004-07-14	US6969030B1	2005-11-29
3.	MacDonald, Dettwiler and Associates Inc.	3D imaging system	US11352399A	2006-02-13	US7860301B2	2010-12-28
4.	MacDonald, Dettwiler & Associates Inc.	Traffic management system for a passageway environment	US11493027A	2006-07-26	US7756615B2	2010-07-13
5.	MacDonald, Dettwiler and Associates Inc.	Surgical robot and robotic controller	US11603352A	2006-11-20	US7996110B2	2011-08-09

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
6.	MacDonald, Dettwiler and Associates Inc.	Surgical manipulator	US11812094A	2007-06-14	US8491603B2	2013-07-23
7.	MacDonald, Dettwiler & Associates Inc.	Satellite refuelling system and method	US12073795A	2008-03-10	US8074935B2	2011-12-13
8.	MacDonald, Dettwiler & Associates Inc.	Guidance, navigation, and control system for a vehicle	US11922706A	2008-03-19	US8090491B2	2012-01-03
9.	MacDonald, Dettwiler and Associates Inc.	Surgical manipulator	US12318151A	2008-12-22	US8444631B2	2013-05-21
10.	MacDonald, Dettwiler and Associates Inc.	Method and apparatus for producing 3D model of an underground environment	US12654451A	2009-12-18	US8031909B2	2011-10-04
11.	MacDonald, Dettwiler and Associates Inc.	Method and apparatus for producing an enhanced 3D model of an environment or an object	US12654452A	2009-12-18	US8031933B2	2011-10-04
12.	MacDonald, Dettwiler and Associates Inc.	Dual reflector system for linear lamp illuminators	US12907685A	2010-10-19	US9115867B2	2015-08-25
13.	MacDonald, Dettwiler and Associates Inc.	Scalable common interface plate system (SCIPS)	US13028051A	2011-02-15	US8702341B2	2014-04-22

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
14.	MacDonald, Dettwiler & Associates Inc.	Satellite refuelling system and method	US13196750A	2011-08-02	US8181911B1	2012-05-22
15.	MacDonald, Dettwiler and Associates Inc.	Surgical robot and robotic controller	US13205524A	2011-08-08	US8515576B2	2013-08-20
16.	MacDonald, Dettwiler & Associates Inc.	Guidance, navigation, and control system for a vehicle	US13209247A	2011-08-12	US8260483B2	2012-09-04
17.	MacDonald, Dettwiler and Associates Inc.	Method and apparatus for producing 3D model of an environment	US13210275A	2011-08-15	US8532368B2	2013-09-10
18.	Neptec Design Group Ltd. <i>(now MacDonald, Dettwiler and Associates Inc.)</i>	Return pulse shape analysis for falling edge object discrimination of aerosol LIDAR	US13127945	2011-08-16	US8781790B2	2014-07-15
19.	MacDonald, Dettwiler & Associates Inc.	Robotic satellite refueling tool	US13323472A	2011-12-12	US8196870B2	2012-06-12
20.	MacDonald, Dettwiler & Associates Inc.	Robotic satellite refuelling tool	US13470661A	2012-05-14	US8448904B2	2013-05-28
21.	MacDonald, Dettwiler and Associates Inc.	Wearable object locator and imaging system	US13589957A	2012-08-20	US9285481B2	2016-03-15
22.	MacDonald, Dettwiler and Associates Inc.	Robotic servicing multifunctional tool	US13652339A	2012-10-15	US9676096B2	2017-06-13

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
23.	MacDonald, Dettwiler and Associates Inc.	Method of real-time tracking of moving/flexible surfaces	US13678162A	2012-11-15	US8693730B2	2014-04-08
24.	MacDonald, Dettwiler and Associates Inc.	Propellant transfer system and method for resupply of propellant to on-orbit spacecraft	US13678281A	2012-11-15	US8899527B2	2014-12-02
25.	MacDonald, Dettwiler and Associates Inc.	Tool for accessing satellite fill/drain valves during propellant resupply	US13706126A	2012-12-05	US9108747B2	2015-08-18
26.	MacDonald, Dettwiler and Associates Inc.	Spacecraft capture mechanism	US13839529A	2013-03-15	US9399295B2	2016-07-26
27.	MacDonald, Dettwiler and Associates Inc.	Surgical manipulator	US13899300A	2013-05-21	US9333041B2	2016-05-10
28.	Neptec Design Group Ltd. (<i>now MacDonald, Dettwiler and Associates Inc.</i>)	Wide angle bistatic scanning optical ranging sensor	US13880938	2013-11-26	US9255790B2	2016-02-09
29.	MacDonald, Dettwiler and Associates Inc.	Method of real-time tracking of moving/flexible surfaces	US14221085A	2014-03-20	US9101267B2	2015-08-11
30.	MacDonald, Dettwiler and Associates Inc.	Scalable common interface plate system (SCIPS)	US14221946A	2014-03-21	US9339935B2	2016-05-17

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
31.	MacDonald, Dettwiler and Associates Inc.	Propellant transfer system and method for resupply of propellant to on-orbit spacecraft	US14554695A	2014-11-26	US9260206B2	2016-02-16
32.	Neptec Design Group Ltd. <i>(now MacDonald, Dettwiler and Associates Inc.)</i>	High speed 360 degree scanning LIDAR head	US14397155	2015-03-16	US9791555B2	2017-10-17
33.	MacDonald, Dettwiler and Associates Inc.	Spacecraft capture mechanism	US14703709A	2015-05-04	US9669950B2	2017-06-06
34.	MacDonald, Dettwiler and Associates Inc.	Payload ejection system	US14716795A	2015-05-19	US10427808	2019-10-01
35.	MacDonald, Dettwiler and Associates Inc.	System and tool for accessing satellite fill/drain valves during propellant resupply	US14826429A	2015-08-14	US9567111B2	2017-02-14
36.	MacDonald, Dettwiler and Associates Inc.	System and tool for accessing satellite fill/drain valves during propellant resupply	US14826444A	2015-08-14	US9688422B2	2017-06-27
37.	MacDonald, Dettwiler and Associates Inc.	Spacecraft capture mechanism	US15219017A	2016-07-25	US9764478B2	2017-09-19

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
38.	MacDonald, Dettwiler and Associates Inc.	Robotic servicing multifunctional tool	US15620300A	2017-06-12	US10005180B2	2018-06-26
39.	MacDonald, Dettwiler and Associates Inc.	Robotic servicing multifunctional tool	US15621362A	2017-06-13	US9950424B2	2018-04-24
40.	MacDonald, Dettwiler and Associates Inc.	Payload Ejection System	US16510359A	2019-07-12	US10513354B2	2019-12-24
41.	MacDonald, Dettwiler and Associates Inc.	System and method for automated artificial vision guided dispensing viscous fluids for caulking and sealing operations	US15645929A	2017-07-10	-	-
42.	MacDonald, Dettwiler and Associates Inc.	Low-Profile Manipulator Interface System (MIPS)	US15829619A	2017-12-01	-	-
43.	MacDonald, Dettwiler and Associates Inc.	Actuated resettable shockless hold down and release mechanism (ARES HDRM)	US15849225A	2017-12-20	-	-
44.	MacDonald, Dettwiler and Associates Inc.	Unobtrusive driving assistance method and system for a vehicle to avoid hazards	US15849427A	2017-12-20	-	-

No.	Assignee	Patent Title	Serial No.	Filing Date	Patent No.	Issue Date
45.	MacDonald, Dettwiler and Associates Inc.	Radial Latch Manipulator Interface System	US62869943PRA	2019-07-02	-	-
46.	Neptec (<i>now MacDonald, Dettwiler and Associates Inc.</i>)	Data collection unit	US29204181	2004-04-26	USD508565S1	2005-08-16