

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5581482

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	NUNC PRO TUNC ASSIGNMENT
<b>EFFECTIVE DATE:</b>	06/15/2016

**CONVEYING PARTY DATA**

Name	Execution Date
RICHARD HORTH	08/21/2017
PHILIPPE LOISELLE	08/21/2017

**RECEIVING PARTY DATA**

<b>Name:</b>	MACDONALD, DETTWILER AND ASSOCIATES CORPORATION
<b>Street Address:</b>	21025 TRANS-CANADA HIGHWAY
<b>City:</b>	STE-ANNE-DE-BELLEVUE, QC
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	H9X 3R2

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15623764

**CORRESPONDENCE DATA**

Fax Number: (514)353-0908

*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: 5143531231

Email: iklein@praxis-ip.com

Correspondent Name: PRAXIS

Address Line 1: SUITE 410 - 1500 AVENUE DU COLLEGE

Address Line 4: MONTREAL, QC, CANADA H4L 5G6

<b>ATTORNEY DOCKET NUMBER:</b>	1118-B11.US
<b>NAME OF SUBMITTER:</b>	ISABELLE KLEIN
<b>SIGNATURE:</b>	/Isabelle Klein/
<b>DATE SIGNED:</b>	06/20/2019

**Total Attachments: 3**

source=1118-B11.USP.Assignment of Invention-Universal- Regular (signed)-BW#page1.tif  
source=1118-B11.USP.Assignment of Invention-Universal- Regular (signed)-BW#page2.tif  
source=1118-B11.USP.Assignment of Invention-Universal- Regular (signed)-BW#page3.tif

## ASSIGNMENT OF INVENTION UNIVERSAL

WHEREAS, we: 1) Richard HORTH & 2) Philippe LOISELLE

whose full addresses are: 1) 17 Labreche, Kirkland, Québec, H9J 3W6, Canada and 2) 4595, Prince-of-Wales, Montreal, Québec, H4B 2L2, Canada respectively,

hereinafter referred to as the **Assignors**, in consideration of \$1.00 and other good and valuable consideration, the receipt of which is hereby acknowledged and for which a full release and discharge is given, have and by these presents do hereby sell and assign to:

### MacDonald, Dettwiler and Associates Corporation

whose full post office address is: 21025 Trans-Canada Highway, Ste-Anne-de-Bellevue Québec, H9X 3R2, Canada

hereinafter referred to as the **Assignee**, all of our rights, titles and interests in each and every country in the world in and to the invention entitled:

### ANTENNA REFLECTOR INTERCHANGE MECHANISM

as described in:

- US Patent Application No. 15/623,764 filed on June 15, 2017 including without limitation the right to claim, any and all of the benefit(s) of the International Convention relating to priority associated with the said invention and all of the corresponding rights, titles and interests in and to any and all patents, registrations and the like which may issue therefore anywhere in the world including, without limitation, in the United States, Canada and Europe and any other PCT contracting or non-contracting state and/or region and any validations and translations based thereon, including, without limitation, any rights, titles and interest in any reissues and extensions thereof to be obtained in any country and including without limitation any divisional, continuation, continuation-in-part, substitute application(s), or supplementary disclosure(s) or petty patents which may be filed in any state or region and which pertains to the said invention.

We further agree without any further payment by said assignee other than reasonable expenses incurred by the undersigned, to communicate to said assignee, its representatives or agents, any facts relating to said invention, including evidence for interference purposes or for other proceedings, whenever requested; testify in any interference, litigation, validity or other proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon my/our heirs, legal representatives, administrators and assigns.

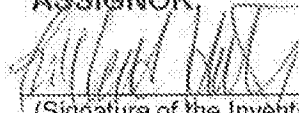
We hereby authorize the firm of PRAXIS and/or the Agents and/or Attorneys of record to correct errors in this assignment or to insert any further identification or other information necessary or desirable to make this assignment suitable for recordal.

This assignment is being executed *nunc pro tunc* as of June 15, 2016.

Le(s) soussigné(s) désire(nt) que la présente cession soit rédigée en anglais.  
The undersigned request(s) that the present assignment be in English.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

ASSIGNOR:




(Signature of the Inventor, Assignor)

HORTH, Richard

(Name of the Inventor, Assignor in Capital Letters)

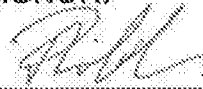
St. Anne-de-Bellevue, Canada  
(City) (Country)

  
(Signature of Witness)

KAREN NEWNHAM  
(Name of Witness in Capital Letters)

21 August 2017  
(Date)

ASSIGNOR:

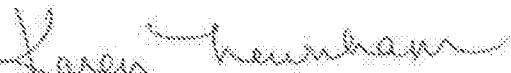


(Signature of the Inventor, Assignor)

LOISELLE, Philippe

(Name of the Inventor, Assignor in Capital Letters)

St. Anne-de-Bellevue, Canada  
(City) (Country)

  
(Signature of Witness)

KAREN NEWNHAM  
(Name of Witness in Capital Letters)

21 August 2017  
(Date)

ACCEPTED,

ASSIGNEE:

MacDonald, Dettwiler and Associates  
Corporation



(Signature of the Representative)

MARC DONATO

(Name of the Representative in Capital Letters)

VP ISG OPERATIONS

(Title)

ste-Anne-de-BELLEVUE

(City) (Country)



(Signature of Witness)

KAREN NEWHAM

(Name of Witness in Capital Letters)

25 August, 2017

(Date)