

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7374655

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ASCENSION TECHNOLOGY CORPORATION	09/16/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NORTHERN DIGITAL, INC.
<b>Street Address:</b>	103 RANDALL DRIVE
<b>City:</b>	WATERLOO
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	N2V1C5
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17139520
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	37085-0062002
<b>NAME OF SUBMITTER:</b>	LAKEISHA BRYANT
<b>SIGNATURE:</b>	/Lakeisha Bryant/
<b>DATE SIGNED:</b>	06/09/2022
<b>Total Attachments: 8</b>	
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## PATENT ASSIGNMENT

This PATENT ASSIGNMENT, dated as of this 16<sup>th</sup> day of September, 2021, (this "Assignment"), is made by Ascension Technology Corporation, a Delaware corporation, located at 107 Catamount Drive, Milton, Vermont 05468, United States of America ("Assignor"), in favor of Northern Digital, Inc., a Canadian corporation located at 103 Randall Drive, Waterloo, Canada N2V1C5 (the "Assignee").

**WHEREAS**, Assignor is the owner of the entire right, title and interest in and to the patents set forth in Schedule A attached hereto and in and to the inventions disclosed therein (collectively, the "Assigned Patent Rights");

**NOW, THEREFORE**, in consideration of TEN DOLLARS (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Assignor hereby conveys, transfers, grants, assigns, and delivers unto Assignee all of Assignor's worldwide right, title, and interest in and to said Assigned Patent Rights, together with all patents issuing on said Assigned Patent Rights, and any reissues, reexaminations, renewals, extensions, substitutions, registrations, confirmations, divisionals, continuations, and continuations-in-part of such patents and said Assigned Patent Rights, including any patents and patent applications that claim priority to a common priority document in the priority chain of any of the foregoing, and foreign counterparts of any of the foregoing, and together with all rights to sue for past and future infringement or misappropriation thereof (including the right to sue for pre-issuance royalties), all the said Assigned Patent Rights to be held and enjoyed by the Assignee as fully and entirely as the said Assigned Patent Rights could have been held and enjoyed by the said Assignor if this Assignment had not been made.

2. Assignor hereby represents, warrants and covenants that it: (i) is the exclusive owner of the entire right, title and interest in and to the Assigned Patent Rights, free and clear of any and all liens, security interests, or encumbrances of any nature; (ii) has the full right and power to make this Assignment; and (iii) has not executed, and will not execute, any agreement or other document in conflict with this Assignment.

3. Assignor hereby agrees to execute, and file if requested at Assignee's expense, such documentation as may be required by any intellectual property registrar in any jurisdiction to transfer ownership of the Assigned Patent Rights from Assignor to Assignee. Assignor further agrees, without any payment by the Assignee other than expenses incurred by the Assignor, to communicate to the Assignee, its representatives or agents, facts relating to the Assigned Patent Rights, including evidence for interference purposes or for other proceedings, whenever requested; to testify in any interference or other proceedings, whenever requested; and to execute and deliver such further assignments and other documents with respect to the Assigned Patent Rights as Assignee shall reasonably request.

4. Assignor hereby authorizes the firm designated by Assignee as Assignee's patent counsel to correct any errors in this Assignment, or to insert any further documentation or other

information, as necessary or desirable to make this Assignment comply with the recordation requirements of any intellectual property registrar in any jurisdiction.

5. Notwithstanding any other provisions of this Assignment to the contrary, nothing contained in this Assignment shall in any way supersede, modify, replace, amend, change, rescind, waive, exceed, expand, enlarge, or in any way affect the provisions, including warranties, covenants, agreements, conditions, representations, or in general any of the rights and remedies, or any of the obligations and indemnifications of Assignor or Assignee set forth in the Agreement. This Assignment is intended only to effect the transfer of certain property transferred pursuant to the Agreement and shall be governed entirely in accordance with the terms and conditions of the Agreement.

6. The terms and covenants of this Assignment shall inure to the benefit of Assignee, its successors and assigns, and shall be binding upon Assignor and its successors and assigns.

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**IN WITNESS WHEREOF**, Assignor has caused this Patent Assignment to be executed by its duly authorized representative as of the day and year first written above.

ASCENSION TECHNOLOGY CORPORATION



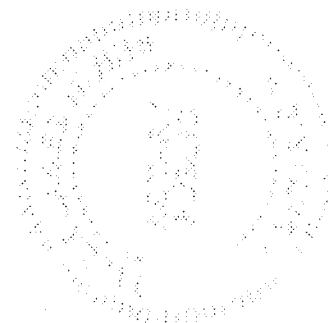
By: \_\_\_\_\_  
David Rath, President

PROVINCE OF ONTARIO  
REGIONAL MUNICIPALITY OF WATERLOO

On this 16<sup>th</sup> day of September, 2021, before me, a Notary Public in and for the Province of Ontario, aforesaid, personally appeared David Rath, known by me to be the person above named and an officer of Ascension Technology Corporation, and executed the foregoing instrument on behalf of Ascension Technology Corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal as of the day and year first above written.

  
\_\_\_\_\_  
Notary Public  
Tyler J. Nivins  
LSO #78816E



**SCHEDULE A**  
**ASSIGNED PATENT RIGHTS**  
**UNITED STATES OF AMERICA**

<b>TITLE</b>	<b>COUNTRY</b>	<b>STATUS</b>	<b>APP. NO.</b>	<b>DATE FILED</b>	<b>PATENT NO.</b>	<b>ISSUE DATE</b>	<b>OWNER</b>
METHOD OF MEASURING POSITION AND ORIENTATION WITH IMPROVED SIGNAL TO NOISE RATIO	United States of America	Issued	10/284,657	Nov 1, 2002	6,754,596	Jun 22, 2004	Ascension Technology Corporation
MAGNETIC POSITION AND ORIENTATION MEASUREMENT SYSTEM WITH MAGNETIC FIELD PERMEABLE ATTENUATOR	United States of America	Issued	10/098,517	Mar 18, 2002	6,784,660	Aug 31, 2004	Ascension Technology Corporation
OPTICAL POSITION MEASUREMENT SYSTEM EMPLOYING ONE OR MORE LINEAR DETECTOR ARRAYS	United States of America	Issued	10/339,299	Jan 10, 2003	6,815,651	Nov 9, 2004	Ascension Technology Corporation
SPIRAL MAGNETIC TRANSMITTER FOR POSITION MEASUREMENT SYSTEM	United States of America	Issued	10/173,428	Jun 18, 2002	6,856,823	Feb 15, 2005	Ascension Technology Corporation
RANGE ADAPTABLE SYSTEM FOR DETERMINING THE ANGULAR POSITION AND SITANCE OF A RADIATING POINT SOURCE AND METHOD OF EMPLOYING	United States of America	Issued	10/073,335	Feb 13, 2002	7,027,634	Apr 11, 2006	Ascension Technology Corporation

TITLE	COUNTRY	STATUS	APP. NO.	DATE FILED	PATENT NO.	ISSUE DATE	OWNER
SYSTEM AND METHOD FOR MEASURING POSITION AND ORIENTATION USING DISTORTION COMPENSATED MAGNETIC FIELDS	United States of America	Issued	10/945,277	Sep 20, 2004	7,373,271	May 13, 2008	Ascension Technology Corporation
SYSTEM AND METHOD FOR MEASURING POSITION AND ORIENTATION USING DISTORTION COMPENSATED MAGNETIC FIELDS	United States of America	Issued	12/037,249	Feb 26, 2008	7,788,060	Aug 31, 2010	Ascension Technology Corporation
OPTICAL SYSTEM FOR DETERMINING THE ANGULAR POSITION OF A RADIATING POINT SOURCE AND METHOD OF EMPLOYING	United States of America	Issued	11/369,988	Mar 8, 2006	7,756,319	Jul 13, 2010	Ascension Technology Corporation
DC MAGNETIC-BASED POSITION AND ORIENTATION MONITORING SYSTEM FOR TRACKING MEDICAL INSTRUMENTS	United States of America	Issued	11/242,048	Oct 4, 2005	7,835,785	Nov 16, 2010	Ascension Technology Corporation
DC MAGNETIC-BASED POSITION AND ORIENTATION MONITORING SYSTEM FOR TRACKING MEDICAL INSTRUMENTS (continuation)	United States of America	Issued	12/924,476	Sep 29, 2010	8,942,780	Jan 27, 2015	Ascension Technology Corporation



TITLE	COUNTRY	STATUS	APP. NO.	DATE FILED	PATENT NO.	ISSUE DATE	OWNER
HOLLOW CORE SENSOR (MAGNETICALLY TRACKED SENSOR)	United States of America	Issued	13/712,105	Dec 12, 2012	8,994,366	Mar 31, 2015	Ascension Technology Corporation
MAGNETIC SENSORS	United States of America	Issued	14/068,176	Oct 31, 2013	9,360,294	Jun 7, 2016	Ascension Technology Corporation
SYSTEM AND METHOD FOR MAGNETIC POSITION TRACKING	United States of America	Issued	13/534,666	Jun 27, 2012	9,474,465	Oct 25, 2016	Ascension Technology Corporation
SYSTEM AND METHOD FOR MAGNETIC POSITION TRACKING (continuation)	United States of America	Issued	15/193,344	Jun 27, 2016	9,603,548	Mar 28, 2016	Ascension Technology Corporation
ROTATING FREQUENCIES OF TRANSMITTERS	United States of America	Issued	15/957,403	Apr 19, 2018	10,260,335	Apr 14, 2020	Ascension Technology Corporation
POSITION AND ORIENTATION FROM A HELMHOLTZ MEASUREMENT	United States of America	Pending	16/850,279	Apr 16, 2020			Ascension Technology Corporation
CALIBRATION APPARATUS FOR AN EM TRACKING SENSOR	United States of America	Issued	16/252,368	Jan 18, 2019	10,948,278	Feb 24, 2021	Ascension Technology Corporation
CALIBRATION APPARATUS FOR AN EM TRACKING TRANSMITTER	United States of America	Issued	16/252,350	Jan 18, 2019	10,883,812	Jan 5, 2021	Ascension Technology Corporation
SLAM BASED EM DISTORTION COMPENSATION	United States of America	Pending	16/271,022	Feb 8, 2019			Ascension Technology Corporation
AV-VR EM DISTORTION CORRECTION	United States of America	Pending	16/838,878	Apr 2, 2020			Ascension Technology Corporation

TITLE	COUNTRY	STATUS	APP. NO.	DATE FILED	PATENT NO.	ISSUE DATE	OWNER
DISTORTION CORRECTION FOR TRACKING AN OBJECT IN A MAGNETIC FIELD	United States of America	Pending	16/838,959	Apr 2, 2020			Ascension Technology Corporation
RECONFIGURABLE TRANSMITTER ARRAY	United States of America	Pending	17/031,350	Sep 24, 2020			Ascension Technology Corporation
EM DISTORTION MAPPING SYSTEM USING INSIDE OUT TRACKING	United States of America	Pending	17/345,392	Jun 11, 2021			Ascension Technology Corporation
EMF POSITION DETECTION SYSTEM WITH PARASITIC LOOP COMPENSATION	United States of America	Pending	17/345,901	Jun 1, 2021			Ascension Technology Corporation
MAGNETIC POSITION MEASUREMENT WITH INTERFERENCE REDUCTION	United States of America	Pending	63/156,695	Mar 4, 2021			Ascension Technology Corporation

PATENT

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