

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7290939

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NORTHERN INNOVATIONS HOLDING CORP.	06/30/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HSBC BANK CANADA
<b>Street Address:</b>	70 YORK STREET
<b>City:</b>	TORONTO, ONTARIO
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	M5J 1S9
<b>PROPERTY NUMBERS Total: 37</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	7329763
Patent Number:	7645812
Patent Number:	7749547
Patent Number:	7772428
Patent Number:	8236952
Patent Number:	8372447
Patent Number:	8426395
Patent Number:	8546369
Patent Number:	9770434
Patent Number:	10251924
Patent Number:	6861554
Patent Number:	7714154
Patent Number:	7645794
Patent Number:	7956090
Patent Number:	7794749
Patent Number:	7820618
Patent Number:	8101569
Patent Number:	7956218
Patent Number:	8062679
Patent Number:	7786073

Property Type	Number
Patent Number:	9220741
Patent Number:	7314945
Patent Number:	7319157
Patent Number:	7374785
Patent Number:	7368441
Patent Number:	7375097
Patent Number:	7455864
Patent Number:	7476405
Patent Number:	7914826
Patent Number:	7906154
Patent Number:	7939113
Patent Number:	7935367
Patent Number:	7955624
Patent Number:	7943183
Patent Number:	7993685
Patent Number:	9040576
Application Number:	17127731

#### CORRESPONDENCE DATA

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<b>ATTORNEY DOCKET NUMBER:</b>	58353-153
<b>NAME OF SUBMITTER:</b>	VERA RIBEIRO
<b>SIGNATURE:</b>	/VERA RIBEIRO/
<b>DATE SIGNED:</b>	04/21/2022

#### Total Attachments: 6

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## **PATENT SECURITY AGREEMENT**

This PATENT SECURITY AGREEMENT, dated as of June 30, 2021 (this "Agreement"), is made by Northern Innovations Holding Corp. (the "Grantor") in favor of HSBC Bank Canada, as administrative agent for the Secured Parties (in such capacity, together with its successors and assigns in such capacity, the "Agent"). Capitalized terms used by not defined herein shall have the meanings given to them in the Security Agreement (as defined below).

WHEREAS, the Grantor is the owner of certain patent applications and patents as indicated in the attached Schedule of Patents;

WHEREAS, the Grantor has entered into the General Security Agreement dated as of December 21, 2016 (as amended, restated, supplemented or otherwise modified from time to time, the "Security Agreement"), in which the Grantor has granted certain interests in favor of the Agent for the benefit of the Secured Parties; and


WHEREAS, pursuant to the Security Agreement, the Grantor has agreed with the Agent and the Secured Parties to execute this Agreement;

NOW, THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby grants to the Agent for the benefit of the Secured Parties, to the extent provided in the Security Agreement (the terms and conditions of which are hereby incorporated herein), a security interest in all of its right, title and interest in, to and under all the patents and patent applications listed on the attached Schedule of Patents and Patent Applications, together with the reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof, all income, royalties, damages and payments now or hereafter due and/or payable with respect thereto, all damages and payments for past or future infringements thereof and rights to sue therefor, and all rights corresponding thereto throughout the world, as collateral security for the payment in full when due (whether at stated maturity, by acceleration or otherwise) of all the Secured Liabilities. Notwithstanding the foregoing, in the event of any conflict between this Agreement and the Security Agreement, the Security Agreement shall control.

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IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

NORTHERN INNOVATIONS HOLDING CORP.

By:   
\_\_\_\_\_  
Name: Norm Vanderee  
Title: CFO

[Signature Page to Patent Security Agreement]


**PATENT**  
**REEL: 059662 FRAME: 0961**

Accepted and Agreed:

**HSBC BANK CANADA,**  
as Agent,

By:

  
\_\_\_\_\_  
Name: Alyssa Senwasane  
Title: Authorized Signatory

  
\_\_\_\_\_  
ANDREW SCLATER  
Director  
Large Corporate Banking

[Signature Page to Patent Security Agreement]

## SCHEDULE OF PATENTS AND PATENT APPLICATIONS

TITLE	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE
CREATINE PYROGLUTAMIC ACID SALTS AND METHODS FOR THEIR PRODUCTION AND USE IN INDIVIDUALS	11/530,601	11-SEP-2006	7,329,763	12-FEB-2008
CREATINE PYROGLUTAMIC ACID SALTS AND METHODS FOR THEIR PRODUCTION AND USE IN INDIVIDUALS	11/778,981	17-JUL-2007	7,465,812	16-DEC-2008
NUTRITIONAL COMPOSITION AND METHOD FOR INCREASING CREATINE UPTAKE AND RETENTION IN SKELETAL MUSCLE, INCREASING MUSCLE MASS AND STRENGTH, INCREASING EXERCISE CAPACITY AND FOR AIDING RECOVERY FOLLOWING EXERCISE	11/522,266	06-JUL-2010	7,749,547	14-SEP-2016
CREATINE HYDROXYCITRIC ACIDS SALTS AND METHODS FOR THEIR PRODUCTION AND USE IN INDIVIDUALS	12/108,822	24-APR-2008	7,772,428	10-AUG-2010
PREPARATIONS CONTAINING AMINO ACIDS AND OROTIC ACID	11/958,747	18-DEC-2007	8,236,952	07-AUG-2012
COMPOSITIONS AND METHODS FOR PROMOTING WEIGHT LOSS AND INCREASING ENERGY	12/849,076	03-AUG-2010	8,372,447	12-FEB-2013
PREPARATIONS CONTAINING CREATINE AND IMINO SUGARS PREPARATIONS CONTAINING CREATINE AND IMINO SUGARS	12/229,979	28-AUG-2008	8,426,395	23-APR-2013
SALTS OF CREATINE IMINO SUGAR AMIDES	12/229,955	28-AUG-2008	8,546,369	01-OCT-2013
COMPOSITIONS FOR IMPROVED BODY COMPOSITION	14/689,806	17-APR-2015	9,770,434	26-sep-2017
COMPOSITIONS CONTAINING MYRISTICA FRAGRANS	14/036,097	25-SEP-2013	10,251,924	
CREATINE SALT HAVING ENHANCED NUTRITIONAL AND THERAPEUTIC EFFICACY AND COMPOSITIONS CONTAINING SAME	10/258,878	30-OCT-2002	6,861,554	01-MAR-2005
PREPARATION OF AMINO ACID FATTY ACID ANHYDRIDES	12/099,306	08-APR-2008	7,714,154	11-MAY-2010
COMPOSITION AND METHOD FOR INCREASING THE ANABOLIC STATE OF MUSCLE CELLS	11/853,277	11-SEP-2007	7,645,794	12-JAN-2010
COMPOSITION AND METHOD	12/499,109	04-OCT-2001	7,956,090	29-SEP-2009

FOR INCREASING THE ANABOLIC STATE OF MUSCLE CELLS				
RAPIDLY DISSOLVING SOLID ORAL DOSAGE FORM FOR DELIVERY OF COMPOSITION FOR INCREASING INTRIC OXIDE ACTIVITY	11/505,779	16-AUG-2006	7,794,749	14-SEP-2010
ENERGY STATUS OF AN INDIVIDUAL BY ENHANCED USAGE OF AN ENDOGENOUS FUEL SOURCE	11/867,433	04-OCT-2007	7,820,618	26-OCT-2010
ENERGY STATUS OF AN INDIVIDUAL BY ENHANCED PRODUCTION OF AN ENDOGENOUS FUEL SOURCE	12/829,438	02-JUL-2010	8,101,569	24-JAN-2012
ORGANIC SALTS OF BETAALANINE	11/954,644	12-DEC-2007	7,956,218	07-JUN-2011
COMPOSITION FOR MAINTAINING ANDROGEN AND ANDROGEN-LIKE UPTAKE POTENTIAL BY CELLS	11/746,825	10-MAY-2007	8,062,679	22-NOV-2011
CONTAINER FOR DIETARY SUPPLEMENT HAVING IMPROVED EFFICACY AT TIME OF CONSUMPTION	11/443,656	30-MAY-2006	7,786,073	31-AUG-2010
WEIGHT LOSS FORMULATION	13/221,141	30-AUG-2011	9,220,741	29-DEC-2015
CREATINE-FATTY ACIDS	11/676,623	20-FEB-2007	7,314,945	01-JAN-2008
CREATINE-FATTY ACIDS	11/676,630	20-FEB-2007	7,319,157	15-JAN-2008
COMPOSITION FOR A FEELING OF CALMNESS	11/696,945	05-APR-2007	7,374,785	20-MAY-2008
METHOD OF INCREASING INTRACELLULAR CONCENTRATIONS OF PHOSPHATE AND INCREASING THE FORCE OF MUSCULAR CONTRACTIONS	11/468,605	30-AUG-2006	7,368,441	06-MAY-2008
INCREASING ATP AVAILABILITY BY INHIBITION OF CREATINE KINASE (CK) LEAKAGE RESULTING FROM HIGH-INTENSITY EXERCISE	11/468,657	30-AUG-2006	7,375,097	20-MAY-2008
MELATONIN-BASED COMPOSITION FOR IMPROVED SLEEP	11/757,744	04-JUN-2007	7,455,864	25-NOV-2008
COMPOSITIONS AND METHODS FOR THE INDUCTION AND MAINTENANCE OF QUALITY SLEEP	11/486,866	14-JUL-2006	7,476,405	13-JAN-2009
METHOD FOR PROMOTING SLEEP	12/206,892	09-SEP-2008	7,914,826	29-MAR-2011
COMPOSITIONS AND METHODS FOR THE INDUCTION AND MAINTENANCE OF QUALITY SLEEP	11/821,229	21-JUN-2007	7,906,154	15-MAR-2011
NUTRITIONAL COMPOSITION	12/291,478	10-NOV-2008	7,939,113	10-MAY-2011

FOR FACILITATING MUSCLE PUMPS				
COMPOSITIONS AND METHODS FOR INCREASING ADIPOSE METABOLISM, LIPOLYSIS OR LIPOLYTIC METABOLISM VIA THERMOGENESIS	11/715,992	08-MAR-2007	7,935,367	03-MAY-2011
COMPOSITIONS AND METHODS FOR INCREASING ADIPOSE METABOLISM, LIPOLYSIS OR LIPOLYTIC METABOLISM VIA THERMOGENESIS	11/985,609	14-NOV-2007	7,955,624	07-JUN-2011
COMPOSITIONS AND METHODS FOR INCREASING METABOLISM, THERMOGENESIS AND/OR MUSCULAR DEFINITION	11/485,713	12-JUL-2006	7,943,183	17-MAY-2011
BRANCHED-CHAIN AMINO ACID COMPOSITION FOR IMPROVING SKELETAL MUSCLE PROTEIN METABOLISM	12/928,481	13-DEC-2010	7,993,685	09-AUG-2011
COMPOSITIONS FOR IMPROVED BODY COMPOSITION	14/178,272	12-FEB-2014	9,040,576	26-MAY-2015
PLANT-BASED WHEY PROTEIN POWDER REPLACEMENT	US17127731	18-Dec-20		
Caffeine and Alpha Lipoic Acid Compositions for Enhanced Sensory Effects	US63/053,077	17-Jul-20		