

## PATENT ASSIGNMENT COVER SHEET

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Assignment ID: PATI728328

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
BUSINESS DEVELOPMENT BANK OF CANADA	09/11/2024

**RECEIVING PARTY DATA**

<b>Company Name:</b>	PRIMAL FUSION INC.
<b>Street Address:</b>	205 KING STREET WEST
<b>Internal Address:</b>	SUITE 65
<b>City:</b>	KITCHENER
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	N2G 1B9

**PROPERTY NUMBERS Total: 18**

Property Type	Number
Application Number:	16523106
Application Number:	16585404
Application Number:	18545324
Application Number:	17958705
Application Number:	17864080
Application Number:	15698879
Application Number:	15658500
Application Number:	15484679
Application Number:	14961819
Application Number:	14988168
Application Number:	15040842
Application Number:	15054327
Application Number:	15094775
Application Number:	15164952
Application Number:	15360432
Application Number:	15360454
Application Number:	15360485
Application Number:	15403761

**CORRESPONDENCE DATA****Fax Number:** 2165925009*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:** (216)696-5663**Email:** patents@tuckerellis.com**Correspondent Name:** PATRICK F. CLUNK**Address Line 1:** 950 MAIN AVE.**Address Line 2:** SUITE 1100**Address Line 4:** CLEVELAND, OHIO 44113

<b>ATTORNEY DOCKET NUMBER:</b>	015318-000042
<b>NAME OF SUBMITTER:</b>	Adeline Machado
<b>SIGNATURE:</b>	Adeline Machado
<b>DATE SIGNED:</b>	01/02/2025

**Total Attachments: 9**

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## DISCHARGE AND RELEASE OF SECURITY INTEREST IN PATENTS

In connection with that certain Debt Payout Agreement dated **August 16, 2024**, in exchange for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **Business Development Bank of Canada**, whose full address is 137 Glasgow St., Ste 355, Kitchener, Ontario, Canada N2G 4X8, hereby confirms that it has terminated, discharged, and released, and does hereby terminate, discharge, and release, the security interests, liens, and other encumbrances against the Collateral (as defined in the GSA) of **Primal Fusion Inc.**, whose full address is 205 King Street West, Ste 65, Kitchener, ON, Canada N2G 1B9, which is contained in that certain General Security Agreement (the "GSA") dated May 24, 2018 between **Primal Fusion Inc.** and **Business Development Bank of Canada** which was filed on May 24, 2018 (Reel/Frame: 063425/0274), including, without limitation, (i) the patents and patent applications listed below; (ii) any other patents or patent applications in any other country or jurisdiction in respect of the same or a related invention, (iii) any other inventions, patents or patent applications in respect of which a security interest was granted under the GSA (the "Patents"); (iv) all rights of any kind whatsoever of **Business Development Bank of Canada** accruing under any of the foregoing provided by applicable law of any jurisdiction, by international treaties and conventions and otherwise throughout the world; (v) any and all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to any and all of the foregoing; and (vi) any and all claims and causes of action, with respect to any of the foregoing, whether occurring before, on or after the date hereof, including all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present and future infringement, misappropriation, violation, misuse, breach or default, with the right but no obligation to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages:

### United States Patents and Applications

No.	Patent No.	Title	Issue Date	Filing Date	App. No
1.	7596574	COMPLEX-ADAPTIVE SYSTEM FOR PROVIDING A FACETED CLASSIFICATION	09/29/2009	08/31/2006	11469258
2.	7606781	SYSTEM, METHOD AND COMPUTER PROGRAM FOR FACET ANALYSIS	10/20/2009	10/18/2006	11550457
3.	7849090	SYSTEM, METHOD AND COMPUTER PROGRAM FOR FACETED CLASSIFICATION SYNTHESIS	12/07/2010	01/22/2007	11625452
4.	8510302	SYSTEM, METHOD, AND COMPUTER PROGRAM FOR A CONSUMER DEFINED INFORMATION ARCHITECTURE	08/13/2013	11/12/2009	12441100

No.	Patent No.	Title	Issue Date	Filing Date	App. No
5.	8010570	SYSTEM, METHOD AND COMPUTER PROGRAM FOR TRANSFORMING AN EXISTING COMPLEX DATA STRUCTURE TO ANOTHER COMPLEX DATA STRUCTURE	08/30/2011	06/04/2009	12477977
6.	7844565	SYSTEM, METHOD AND COMPUTER PROGRAM FOR USING A MULTI-TIERED KNOWLEDGE REPRESENTATION MODEL	11/30/2010	06/04/2009	12477994
7.	8495001	SYSTEMS AND METHODS FOR SEMANTIC CONCEPT DEFINITION AND SEMANTIC CONCEPT RELATIONSHIP SYNTHESIS UTILIZING EXISTING DOMAIN	07/23/2013	08/28/2009	12549812
8.	9292855	SYNTHESIZING MESSAGING USING CONTEXT PROVIDED BY CONSUMERS	03/22/2016	09/08/2009	12555293
9.	7860817	SYSTEM, METHOD AND COMPUTER PROGRAM FOR FACET ANALYSIS	12/28/2010	09/09/2009	12556349
10.	8281238	SYSTEM, METHOD AND COMPUTER PROGRAM FOR CREATING AND MANIPULATING DATA STRUCTURES USING AN INTERACTIVE GRAPHICAL INTERFACE	10/02/2012	11/10/2009	12615703
11.	8676722	METHOD, SYSTEM, AND COMPUTER PROGRAM FOR USER-DRIVEN DYNAMIC GENERATION OF SEMANTIC NETWORKS AND MEDIA SYNTHESIS	03/18/2014	02/02/2010	12671846
12.	9262520	SYSTEM, METHOD AND COMPUTER PROGRAM FOR CREATING AND MANIPULATING DATA STRUCTURES USING AN INTERACTIVE GRAPHICAL	02/16/2016	05/11/2011	13105890

No.	Patent No.	Title	Issue Date	Filing Date	App. No
13.	9361365	METHODS AND APPARATUS FOR SEARCHING OF CONTENT USING SEMANTIC SYNTHESIS	06/07/2016	06/16/2011	13162069
14.		SYSTEMS OF COMPUTERIZED AGENTS AND USER-DIRECTED SEMANTIC NETWORKING		06/20/2011	13164732
15.	9104779	SYSTEMS AND METHODS FOR ANALYZING AND SYNTHESIZING COMPLEX KNOWLEDGE REPRESENTATIONS	08/11/2015	06/21/2011	13165423
16.	9378203	METHODS AND APPARATUS FOR PROVIDING INFORMATION OF INTEREST TO ONE OR MORE USERS	06/28/2016	12/30/2011	13340792
17.	8676732	METHODS AND APPARATUS FOR PROVIDING INFORMATION OF INTEREST TO ONE OR MORE USERS	03/18/2014	12/30/2011	13340820
18.	8818862	SYSTEM AND METHOD FOR PURCHASING ADVERTISEMENTS ASSOCIATED WITH WORDS AND PHRASES	08/26/2014	12/30/2011	13341881
19.	10867133	SYSTEM AND METHOD FOR USING A KNOWLEDGE REPRESENTATION TO PROVIDE INFORMATION BASED ON ENVIRONMENTAL INPUTS	12/15/2020	12/30/2011	13341896
20.	10198503	SYSTEM AND METHOD FOR PERFORMING A SEMANTIC OPERATION ON A DIGITAL SOCIAL NETWORK	02/05/2019	12/30/2011	13341899
21.	8849860	SYSTEMS AND METHODS FOR APPLYING STATISTICAL INFERENCE TECHNIQUES TO KNOWLEDGE REPRESENTATIONS	09/30/2014	01/06/2012	13345640

No.	Patent No.	Title	Issue Date	Filing Date	App. No
22.	10002325	KNOWLEDGE REPRESENTATION SYSTEMS AND METHODS INCORPORATING INFERENCE RULES	06/19/2018	01/06/2012	13345644
23.	9092516	IDENTIFYING INFORMATION OF INTEREST BASED ON USER PREFERENCES	07/28/2015	06/20/2012	13527883
24.	9098575	PREFERENCE-GUIDED SEMANTIC PROCESSING	08/04/2015	06/20/2012	13527914
25.	9177248	KNOWLEDGE REPRESENTATION SYSTEMS AND METHODS INCORPORATING CUSTOMIZATION	11/03/2015	09/10/2012	13609223
26.	9235806	METHODS AND DEVICES FOR CUSTOMIZING KNOWLEDGE REPRESENTATION SYSTEMS	01/12/2016	03/15/2013	13844009
27.	9904729	SYSTEM, METHOD, AND COMPUTER PROGRAM FOR A CONSUMER DEFINED INFORMATION ARCHITECTURE	02/27/2018	06/11/2013	13915489
28.	8943016	SYSTEMS AND METHODS FOR SEMANTIC CONCEPT DEFINITION AND SEMANTIC CONCEPT RELATIONSHIP SYNTHESIS UTILIZING EXISTING DOMAIN DEFINITIONS	01/27/2015	06/17/2013	13919934
29.		METHOD, SYSTEM, AND COMPUTER PROGRAM FOR USER-DRIVEN DYNAMIC GENERATION OF SEMANTIC NETWORKS AND MEDIA SYNTHESIS		01/24/2014	14163504
30.	11423445	SYSTEM AND METHOD FOR PURCHASING ADVERTISEMENTS ASSOCIATED WITH WORDS AND PHRASES	08/23/2022	07/10/2014	14328414

No.	Patent No.	Title	Issue Date	Filing Date	App. No
31.	9595004	SYSTEMS AND METHODS FOR SEMANTIC CONCEPT DEFINITION AND SEMANTIC CONCEPT RELATIONSHIP SYNTHESIS UTILIZING EXISTING DOMAIN DEFINITIONS	03/14/2017	12/16/2014	14571902
32.	9715552	TECHNIQUES FOR PRESENTING CONTENT TO A USER BASED ON THE USER'S PREFERENCES	07/25/2017	06/03/2015	14729958
33.	10755179	METHODS AND APPARATUS FOR IDENTIFYING CONCEPTS CORRESPONDING TO INPUT INFORMATION	08/25/2020	07/10/2015	14760239
34.	9934465	SYSTEMS AND METHODS FOR ANALYZING AND SYNTHESIZING COMPLEX KNOWLEDGE REPRESENTATIONS	04/03/2018	06/30/2015	14788589
35.		METHODS AND APPARATUS FOR IDENTIFYING CONCEPTS CORRESPONDING TO INPUT INFORMATION		07/13/2015	14797858
36.	9576241	METHODS AND DEVICES FOR CUSTOMIZING KNOWLEDGE REPRESENTATION SYSTEMS	02/21/2017	12/07/2015	14961819
37.	10146843	SYSTEM, METHOD AND COMPUTER PROGRAM FOR CREATING AND MANIPULATING DATA STRUCTURES USING AN INTERACTIVE GRAPHICAL INTERFACE	12/04/2018	01/05/2016	14988168
38.	10181137	SYNTHESIZING MESSAGING USING CONTEXT PROVIDED BY CONSUMERS	01/15/2019	02/10/2016	15040842

No.	Patent No.	Title	Issue Date	Filing Date	App. No
39.	10803107	SYSTEMS AND METHODS FOR SEMANTIC CONCEPT DEFINITION AND SEMANTIC CONCEPT RELATIONSHIP SYNTHESIS UTILIZING EXISTING DOMAIN DEFINITIONS	10/13/2020	02/26/2016	15054327
40.	11182440	METHODS AND APPARATUS FOR SEARCHING OF CONTENT USING SEMANTIC SYNTHESIS	11/23/2021	04/08/2016	15094775
41.	9792550	METHODS AND APPARATUS FOR PROVIDING INFORMATION OF INTEREST TO ONE OR MORE USERS	10/17/2017	05/26/2016	15164952
42.	11544579	SYSTEM AND METHOD FOR GENERATING TRAINING DATA FOR MACHINE LEARNING CLASSIFIER	01/03/2023	11/23/2016	15360432
43.		SYSTEM AND METHOD OF USING A KNOWLEDGE REPRESENTATION FOR FEATURES IN A MACHINE LEARNING CLASSIFIER		11/23/2016	15360454
44.		SYSTEM AND METHOD FOR MODIFYING A KNOWLEDGE REPRESENTATION BASED ON A MACHINE LEARNING CLASSIFIER		11/23/2016	15360485
45.	10474647	METHODS AND DEVICES FOR CUSTOMIZING KNOWLEDGE REPRESENTATION SYSTEMS	11/12/2019	01/11/2017	15403761
46.		SYSTEMS AND METHODS FOR SEMANTIC CONCEPT DEFINITION AND SEMANTIC CONCEPT RELATIONSHIP SYNTHESIS UTILIZING EXISTING DOMAIN DEFINITIONS		01/30/2017	15418875



No.	Patent No.	Title	Issue Date	Filing Date	App. No
47.	10248669	METHODS AND DEVICES FOR CUSTOMIZING KNOWLEDGE REPRESENTATION SYSTEMS	04/02/2019	04/11/2017	15484679
48.	10409880	TECHNIQUES FOR PRESENTING CONTENT TO A USER BASED ON THE USER'S PREFERENCES	09/10/2019	07/25/2017	15658500
49.		METHODS AND APPARATUS FOR PROVIDING INFORMATION OF INTEREST TO ONE OR MORE USERS		09/08/2017	15698879
50.	11294977	TECHNIQUES FOR PRESENTING CONTENT TO A USER BASED ON THE USER'S PREFERENCES	04/05/2022	07/26/2019	16523106
51.	11474979	METHODS AND DEVICES FOR CUSTOMIZING KNOWLEDGE REPRESENTATION SYSTEMS	10/18/2022	09/27/2019	16585404
52.		TECHNIQUES FOR PRESENTING CONTENT TO A USER BASED ON THE USER'S PREFERENCES		04/04/2022	17713096
53.		TECHNIQUES FOR PRESENTING CONTENT TO A USER BASED ON THE USER'S PREFERENCES		2023-12-19	18/545324
54.		METHOD, SYSTEM, AND COMPUTER PROGRAM FOR USER-DRIVEN DYNAMIC GENERATION OF SEMANTIC NETWORKS AND MEDIA SYNTHESIS		2023-11-24	18/518808
55.		METHODS AND DEVICES FOR CUSTOMIZING KNOWLEDGE REPRESENTATION SYSTEMS		2023-10-23	18/492134
56.		SYSTEM AND METHOD FOR GENERATING TRAINING DATA FOR MACHINE LEARNING CLASSIFIER		2022-12-22	18/145273

No.	Patent No.	Title	Issue Date	Filing Date	App. No
57.	11809388	METHODS AND DEVICES FOR CUSTOMIZING KNOWLEDGE REPRESENTATION SYSTEMS	2023-11-07	2022-10-03	17/958705
58.	12045862	SYSTEM AND METHOD FOR PURCHASING ADVERTISEMENTS ASSOCIATED WITH WORDS AND PHRASES	2024-07-23	2022-07-13	17/864080
59.		KNOWLEDGE REPRESENTATION SYSTEMS AND METHODS INCORPORATING CUSTOMIZATION		2012-09-10	13/609225
60.		KNOWLEDGE REPRESENTATION SYSTEMS AND METHODS INCORPORATING CUSTOMIZATION		2012-09-10	13/609218
61.		SYSTEM AND METHOD FOR OBTAINING PREFERENCES WITH A USER INTERFACE		2012-06-20	13/527900
62.		KNOWLEDGE REPRESENTATION SYSTEMS AND METHODS INCORPORATING DATA CONSUMER MODELS AND PREFERENCES		2012-01-06	13/345637
63.		SYNTHESIZING MESSAGING USING CONTEXT PROVIDED BY CONSUMERS		2009-09-08	12/555341
64.		SYNTHESIZING MESSAGING USING CONTEXT PROVIDED BY CONSUMERS		2009-09-08	12/555222

Accordingly, Primal Fusion Inc. or its designee is hereby authorized to file UCC financing statement amendments and any other necessary documentation (including with the United States Patent and Trademark Office) to evidence the termination and release of the liens and security interests on the Collateral.

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Signed this 11<sup>th</sup> day of September 2024 by



**BUSINESS DEVELOPMENT BANK OF CANADA**

Name: Gelsomina Placido

Title: Senior Legal Assistant

Witnessed by:



Name of witness:

**CHRISTINA D'ORNELLAS**  
Team Lead, Legal Affairs

*[Signature Page to Discharge and Release of Security Interest in Patents]*