

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6848558

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREW D. KING	09/14/2016
ROBERT B. ISRAEL	08/31/2016
PAUL I. BUNYK	08/31/2016
TOMAS J. BOOTHBY	09/01/2016
AIDAN P. ROY	09/01/2016
JAMES A. KING	06/07/2020
TREVOR M. LANTING	06/08/2020
ABRAHAM J. EVERT	06/23/2020
STEVEN P. REINHARDT	09/07/2016
D-WAVE (GOVERNMENT) INC.	11/11/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	D-WAVE SYSTEMS, INC.
<b>Street Address:</b>	3033 BETA AVENUE
<b>City:</b>	BURNABY
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	V5G 4M9
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16988232
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(206)621-8783
<i>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.</i>	
<b>Phone:</b>	2063401000
<b>Email:</b>	gdunn@cozen.com
<b>Correspondent Name:</b>	FRANK ABRAMONTE
<b>Address Line 1:</b>	999 THIRD AVENUE
<b>Address Line 2:</b>	SUITE 1900
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98104
<b>ATTORNEY DOCKET NUMBER:</b>	240105.573D1/492556

PATENT

<b>NAME OF SUBMITTER:</b>	FRANK ABRAMONTE
<b>SIGNATURE:</b>	/Frank Abramonte/
<b>DATE SIGNED:</b>	08/04/2021
<b>Total Attachments: 14</b> source=573D1_Assignment from parent1#page1.tif source=573D1_Assignment from parent1#page2.tif source=573D1_Assignment from parent1#page3.tif source=573D1_Assignment from parent1#page4.tif source=573D1_Assignment from parent1#page5.tif source=573D1_Assignment from parent2#page1.tif source=573D1_Assignment from parent2#page2.tif source=573D1_Assignment from parent2#page3.tif source=573D1_Assignment from parent2#page4.tif source=573D1_Assignment from parent2#page5.tif source=573D1_Assignment from parent3#page1.tif source=573D1_Assignment from parent3#page2.tif source=573D1_Assignment from parent4#page1.tif source=573D1_Assignment from parent4#page2.tif	

## ASSIGNMENT


WHEREAS, we, Andrew D. King, Robert B. Israel, Paul I. Bunyk, Tomas J. Boothby and Aidan P. Roy (hereinafter referred to as ASSIGNORS), all having a mailing address of 3033 Beta Avenue, Burnaby, British Columbia, Canada V5G 4M9, are listed inventors/applicants, along with Steven P. Reinhardt, of the provisional patent application entitled "SYSTEMS AND METHODS FOR EMBEDDING PROBLEMS INTO AN ANALOG PROCESSOR," as filed with the U.S. Patent and Trademark Office on April 18, 2016, and assigned Application No. 62/324,206;

WHEREAS, D-Wave Systems Inc. (hereinafter referred to as ASSIGNEE), a Canadian corporation having a place of business at 3033 Beta Avenue, Burnaby, British Columbia, Canada V5G 4M9, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States;

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said provisional patent application and the invention(s) disclosed therein, and any and all letters patent(s) which claim priority to said provisional application and any and all letters patent(s) which claim the invention(s) disclosed therein and which may be granted in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States provisional application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, and including the right to sue and collect damages for past and present infringement of said letters patent(s); said invention, provisional application and all letters patent(s) on said invention or claiming priority to said provisional application to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said

invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

14 September 2016  
Date

  
Andrew D. King

City of Burnaby )  
Province of BC )

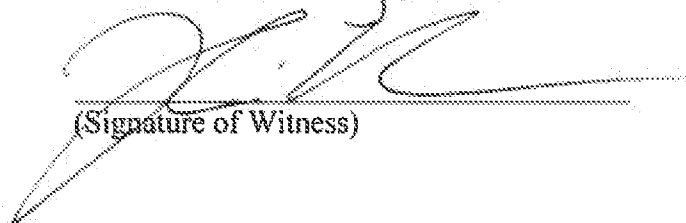
ss.

I certify that I know or have satisfactory evidence that Andrew Douglas King signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

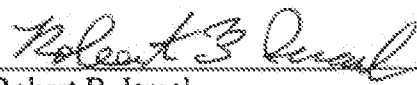
Date September 14, 2016  
(Type or Print)

Signed at Burnaby, BC

Kimberly Damino  
(Type or Print Name of Witness)

  
(Signature of Witness)

Aug 31 2016  
Date

  
Robert B. Israel

City of Burnaby )  
Province of BC )

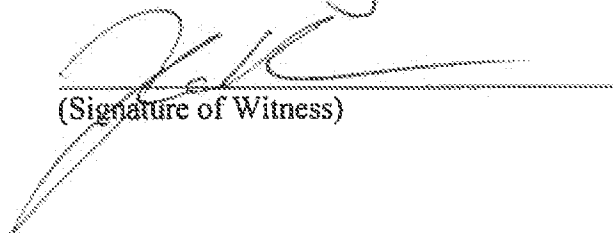
ss.

I certify that I know or have satisfactory evidence that Robert B. Israel signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

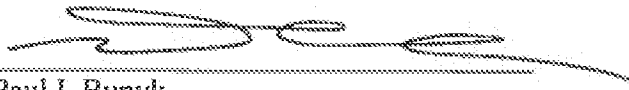
Date August 31, 2016  
(Type or Print)

Signed at Burnaby, BC

Kimberly Damino  
(Type or Print Name of Witness)

  
(Signature of Witness)

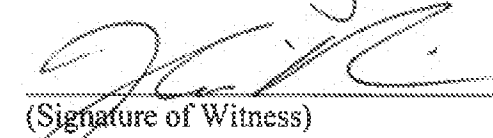
Aug. 31, 2016  
Date  
Burnaby )  
City of )  
BC )  
Province of )

  
Paul I. Bunyk

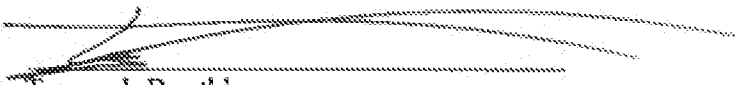
ss.

I certify that I know or have satisfactory evidence that Paul I. Bunyk signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

August 31, 2016  
Date  
(Type or Print)  
Kimberly Domino  
(Type or Print Name of Witness)

Signed at Burnaby, BC  
  
(Signature of Witness)

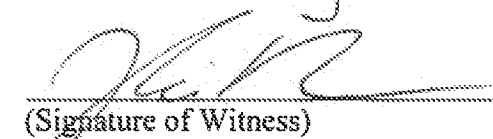
Sep 1 2016  
Date  
Burnaby )  
City of )  
BC )  
Province of )

  
Tomas J. Boothby

ss.

I certify that I know or have satisfactory evidence that Tomas J. Boothby signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

September 1, 2016  
Date  
(Type or Print)  
Kimberly Domino  
(Type or Print Name of Witness)

Signed at Burnaby, BC  
  
(Signature of Witness)

Tomas James Boothby

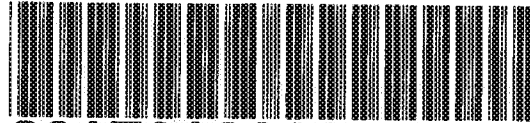
Petitioner

8018 36th Ave S

Street Address

Seattle, WA 98118

City, State, Zip



20170130000969

KC DISTRICT CO OCN 73.00  
PAGE-001 OF 001  
01/30/2017 13:31  
KING COUNTY, WA

KING COUNTY DISTRICT COURT  
STATE OF WASHINGTON

West Division, Seattle Courthouse

In re the Petition of:

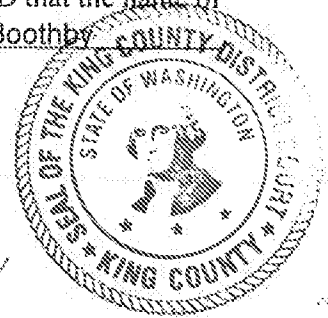
No. 175-00836

Tomas James Boothby

ORDER CHANGING NAME (Individual)

The petition of the above-named person for an order changing his/her current name came before the court on this date; the court having reviewed the petition and any supporting information, and it appearing to the satisfaction of the court that the statements in support of the petition are true;

Now therefore, it is hereby ORDERED, ADJUDGED AND DECREED that the name of Tomas James Boothby be changed to Kelly Tomas Rose Boothby



Dated: 23 January, 2017.

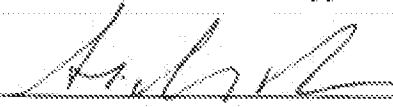
Anne C. Harper  
Judge Anne C. Harper

CERTIFICATION – State Of Washington, County of King  
The undersigned, duly authorized clerk of the King County District Court, Washington, hereby certifies that the document on which this stamp is imprinted is a true and correct copy of the original filed in the Court.

Signed this 23 day of JAN, 2017

[Signature]  
Court Clerk

September 1/2016  
Date

  
Aidan P. Roy

City of Burnaby )  
Province of BC )

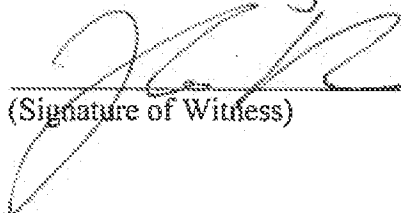
ss.

I certify that I know or have satisfactory evidence that Aidan Patrick Roy signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date September 1, 2016  
(Type or Print)

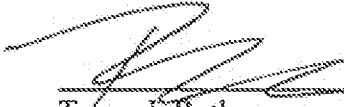
Signed at Burnaby, BC

Kimberly Domino  
(Type or Print Name of Witness)

  
(Signature of Witness)

**D-WAVE SYSTEMS INC.**

14-SEP-2016  
Date

 (Assignee)  
Tanya J. Rothe  
General Counsel & Director of Intellectual Property

ASSIGNMENT

WHEREAS, we,

Name	Address	
James A. King	3033 Beta Avenue, Burnaby, British Columbia, V5G 4M9 CANADA	;
Trevor M. Lanting	3033 Beta Avenue, Burnaby, British Columbia, V5G 4M9 CANADA	; and
Abraham J. Evert	3033 Beta Avenue, Burnaby, British Columbia, V5G 4M9 CANADA	;

(hereinafter referred to as ASSIGNORS), having mailing addresses as listed above, are the joint inventors, along with Andrew D. King, Robert B. Israel, Paul I. Bunyk, Kelly T. R. Boothby (formerly Tomas J. Boothby), Steven P. Reinhardt, and Aidan P. Roy of an invention entitled “SYSTEMS AND METHODS FOR EMBEDDING PROBLEMS INTO AN ANALOG PROCESSOR,” as described and claimed in the specification for which an application for United States letters patent was filed on April 13, 2017, and assigned Application No. 15/487,295;

WHEREAS,

Corporation Name	Address
D-Wave Systems Inc.	3033 Beta Avenue, Burnaby, British Columbia, V5G 4M9 CANADA

(hereinafter referred to as ASSIGNEE), a Canadian corporation having a place of business at the address listed above, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

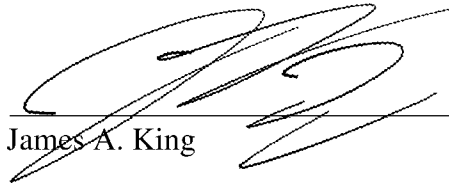
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise,



and including the right to sue and collect damages for past and present infringement of said letters patent; said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

JUNE 7, 2020

Date

  
James A. King

City of VANCOUVER )

Province of BC )

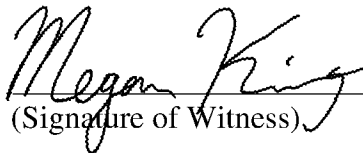
ss.

I certify that I know or have satisfactory evidence that James A. King signed this instrument of their own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date JUNE 7, 2020  
(Type or Print)

Signed at VANCOUVER, BC

MEGAN KING  
(Type or Print Name of Witness)

  
(Signature of Witness)

Date June 8, 2020

Trevor M. Lanting  
Trevor M. Lanting

City of BURNABY )

Province of BC )

ss.

I certify that I know or have satisfactory evidence that Trevor M. Lanting signed this instrument of their own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date JUNE 8, 2020  
(Type or Print)

Signed at VANCOUVER BC

FAYYAZ KARIMI  
(Type or Print Name of Witness)

[Signature]  
(Signature of Witness)

Date \_\_\_\_\_

Abraham J. Evert

City of \_\_\_\_\_ )

Province of \_\_\_\_\_ )

ss.

I certify that I know or have satisfactory evidence that Abraham J. Evert signed this instrument of their own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date \_\_\_\_\_  
(Type or Print)

Signed at \_\_\_\_\_

\_\_\_\_\_  
(Type or Print Name of Witness)

\_\_\_\_\_  
(Signature of Witness)

\_\_\_\_\_  
Date Trevor M. Lanting  
City of \_\_\_\_\_ )  
) ss.  
Province of \_\_\_\_\_ )

I certify that I know or have satisfactory evidence that Trevor M. Lanting signed this instrument of their own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date \_\_\_\_\_ Signed at \_\_\_\_\_  
(Type or Print)

\_\_\_\_\_  
(Type or Print Name of Witness) (Signature of Witness)

June 23, 2020  
Date Abraham J. Evert  
City of Vancouver )  
) ss.  
Province of British Columbia )

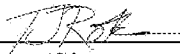
I certify that I know or have satisfactory evidence that Abraham J. Evert signed this instrument of their own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date June 23, 2020 Signed at Vancouver  
(Type or Print)

Susan Monyo  
(Type or Print Name of Witness) (Signature of Witness)

**D-WAVE SYSTEMS INC.**

23-Jun-2020 | 4:43 PM PDT  
\_\_\_\_\_  
Date

\_\_\_\_\_  
(Signatory Signature) (Assignee)

Tanya J. Rothe, General Counsel  
(Assignee Signatory Name, Title)

Docket No. 240105.573/438040

## ASSIGNMENT

WHEREAS, I, Steven P. Reinhardt (hereinafter referred to as ASSIGNOR), having a post office address of 3033 Beta Avenue, Burnaby, British Columbia, Canada V5G 4M9, am a listed inventor/applicant, along with Andrew D. King, Robert B. Israel, Paul I. Bunyk, Tomas J. Boothby and Aidan P. Roy, of the provisional patent application entitled "SYSTEMS AND METHODS FOR EMBEDDING PROBLEMS INTO AN ANALOG PROCESSOR," as filed with the U.S. Patent and Trademark Office on April 18, 2016, and assigned Application No. 62/324,206;

WHEREAS, D-Wave (Government) Inc. (hereinafter referred to as ASSIGNEE), a corporation of the state of Delaware having a place of business at 2650 E. Bayshore Road, Palo Alto, California 94303, is desirous of acquiring the entire right, title and interest in and to the provisional patent application and in and to any letters patent(s) that claim the priority benefit of the provisional patent application in the United States and in any and all foreign countries;

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the entire right, title and interest in and to said provisional patent application and the invention(s) disclosed therein, and any and all letters patent(s) which claim priority to said provisional application and any and all letters patent(s) which claim the invention(s) disclosed therein and which may be granted in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States provisional application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, and including the right to sue and collect damages for past and present infringement of said letters patent(s); said invention, provisional application and all letters patent(s) on said invention or claiming priority to said provisional application to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for

litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

September 7, 2016  
Date

[Signature]  
Steven P. Reinhardt

State of 1 )  
County of / ) ss.

Signed at - City of: Burnaby  
Province of: BC

I certify that I know or have satisfactory evidence that Steven P. Reinhardt signed this instrument of his own free will as a voluntary act for the uses and purposes mentioned in the instrument.

KS  
Sept. 7, 2016

Date September 7, 2016  
(Type or Print)

Signed at Burnaby, BC

Kimberly Domino  
(Type or Print Name of Witness)

[Signature]  
(Signature of Witness)

D-Wave (Government) Inc.

14-SEP-2016  
Date

[Signature] (Assignee)  
Signature

Dan J. Cohrs, Treasurer  
(Name and Title)

## ASSIGNMENT

WHEREAS, D-Wave (Government) Inc. (hereinafter referred to as ASSIGNOR), a corporation of the State of Delaware having a place of business at 2650 E. Bayshore Road, Palo Alto, California 94303, is the owner of an invention entitled "SYSTEMS AND METHODS FOR EMBEDDING PROBLEMS INTO AN ANALOG PROCESSOR," as filed with the U.S. Patent and Trademark Office on April 18, 2016, and assigned Application No. 62/324,206;

WHEREAS, D-Wave Systems Inc. (hereinafter referred to as ASSIGNEE), a corporation of Canada having a place of business at 3033 Beta Avenue, Burnaby, British Columbia, Canada V5G 4M9, is desirous of acquiring the entire right, title and interest in and to the provisional patent application and in and to any letters patent(s) that claim the priority benefit of the provisional patent application in the United States and in any and all foreign countries;

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the entire right, title and interest in and to said provisional patent application and the invention(s) disclosed therein, and any and all letters patent(s) which claim priority to said provisional application and any and all letters patent(s) which claim the invention(s) disclosed therein and which may be granted in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States provisional application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, and including the right to sue and collect damages for past and present infringement of said letters patent(s); said invention, provisional application and all letters patent(s) on said invention or claiming priority to said provisional application to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

D-Wave (Government) Inc.

11-NOV-2016  
Date

[Signature] (Assignor)  
Tanya J. Rothe, General Counsel

State of BUNAWAY, B.C. )  
County of CAVAM ) ss.

I certify that I know or have satisfactory evidence that TANYA J. ROTHE signed this instrument of his/her own free will as a voluntary act for the uses and purposes mentioned in the instrument.

Date 11-NOV-2016  
(Type or Print)

Signed at BUNAWAY, B.C.

LAURIE JORB  
(Type or Print Name of Witness)

[Signature]  
(Signature of Witness)

D-Wave Systems Inc.

11-NOV-2016  
Date

[Signature] (Assignee)  
Tanya J. Rothe, General Counsel

(240)105 573(P1): 4869357\_L.DOC