

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4990184

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MOHAMMAD H.S. AMIN	12/02/2015
RICHARD G. HARRIS	12/02/2015
TREVOR MICHAEL LANTING	12/02/2015
ANATOLY YU SMIRNOV	12/02/2015
ANDREW J. BERKLEY	12/02/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	D-WAVE SYSTEMS INC.
<b>Street Address:</b>	3033 BETA AVENUE
<b>City:</b>	BURNABY, BRITISH COLUMBIA
<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:	14896259
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(206)682-6031
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<b>Phone:</b>	206-622-4900
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<b>Address Line 1:</b>	701 FIFTH AVENUE
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<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98104
<b>ATTORNEY DOCKET NUMBER:</b>	240105.535USPC
<b>NAME OF SUBMITTER:</b>	FRANK ABRAMONTE
<b>SIGNATURE:</b>	/Frank Abramonte/
<b>DATE SIGNED:</b>	06/04/2018
<b>Total Attachments: 4</b>	

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## ASSIGNMENT

WHEREAS, we, Mohammad H. S. Amin, Richard G. Harris, Trevor Michael Lanting, Anatoly Yu Smirnov and Andrew J. Berkley (hereinafter referred to as ASSIGNORS), each having a post office address of 3033 Beta Avenue, Burnaby, British Columbia, Canada V5G 4M9; are the listed inventors/applicants of the provisional patent application entitled "SYSTEMS AND METHODS FOR OPERATING A QUANTUM PROCESSOR TO DETERMINE ENERGY EIGENVALUES OF A HAMILTONIAN," and for which an application was filed on October 22, 2013 with the U.S. Receiving Office of the PCT and assigned Application No. PCT/US2013/066183;

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 international application and in and to any letters patent(s) that claim the priority benefit of the international patent application 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, ASSIGNOR hereby sells, assigns and transfers 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 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 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.

Dec. 2, 2015  
Date

M. Amin  
Mohammad H. S. Amin

City of BURNABY )

Province of B.C. )

ss.

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

Date 2-DEC-2015  
(Type or Print)

Signed at BURNABY B.C.

LAURIE JOBB  
(Type or Print Name of Witness)

[Signature]  
(Signature of Witness)

December 2, 2015  
Date

Richard G. Harris  
Richard G. Harris

City of BURNABY B.C. )

Province of B.C. )

ss.

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

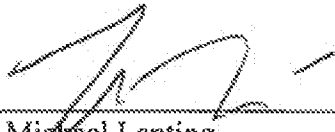
Date 2-DEC-2015  
(Type or Print)

Signed at BURNABY B.C.

LAURIE JOBB  
(Type or Print Name of Witness)

[Signature]  
(Signature of Witness)

December 2, 2015  
Date


  
Trevor Michael Lanting

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

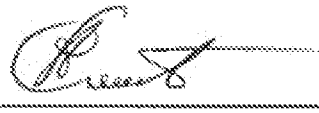
Date 2-DECEMBER 2015  
(Type or Print)

Signed at BURBANK, CA.

LAURIE  
(Type or Print Name of Witness)

  
(Signature of Witness)

December 2, 2015  
Date

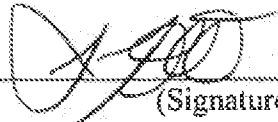
  
Anatoly Yu Smirnov

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

Date 2-Dec-2015  
(Type or Print)

Signed at BURBANK, CA.

LAURIE JARR  
(Type or Print Name of Witness)

  
(Signature of Witness)

2 Dec 2015  
Date

  
Andrew J. Berkley

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

Date 2-Dec-2015  
(Type or Print)


Signed at Bunny Bl.

LAURIE JOBB  
(Type or Print Name of Witness)

  
(Signature of Witness)

**D-WAVE SYSTEMS INC.**

2 December 2015  
Date

  
(Signatory Signature) (Assignee)

Tanya J. Rothe, General Counsel & Director of IP  
(Assignee Signatory Name, Title)

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