

04-04-2001

Y DOCKET NO: M-8785 US

RECORDED

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

101670416

TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying parties: med 03-16-01

- (a) Alexandre M. Zagoskin  
(b) Geordie Rose  
(c) Mohammad H.S. Amin

Additional name(s) of conveying party(ies) attached?

☒ Yes ☐ No

2. Name and address of receiving party:

Name: D-Wave Systems, Inc.

Street Address: 1985 West Broadway, Suite 320

City: Vancouver British Columbia V6J 4Y3

Country: Canada

11036 U.S. PTO  
09/810818

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: March 6 and 13, 2001

Name and address of receiving party(ies):

Name:

Street Address:

City: State: Zip:

Country:

Additional name(s) &amp; address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: March 16, 2001A. Patent Application No.(s) - 09810818Title: Superconducting DOT/Anti-DOT Flux Qubit Based On Time-Reversal Symmetry Breaking Effects

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David MillersInternal Address: SKJERVEN MORRILL MacPHERSON LLPStreet Address: 25 METRO DRIVE, SUITE 700City SAN JOSE State CA Zip 951106. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

☒ Authorized to be charged to Deposit Account 19-2386☒ Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

DO NOT USE THIS SPACE

8. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*David Millers 37.396

Name of Person Signing

David Millers  
Signature3-16-01

Date

Total number of pages comprising cover sheet: 2

04/03/2001 BARMEDI 00000039 192386 09810818

01 FC:581

40.00 CH

PATENT  
REEL: 011636 FRAME: 0269

**PATENTS ONLY**

To the Honorable Director of Patents and Trademarks. Please record the attached original documents or copy thereof.

## 1. Additional name(s) of conveying party(ies):

(d) Marcel Franz

(e) Jeremy P. Hilton

## 2. Additional Names and address of receiving party(ies):

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Street Address: \_\_\_\_\_

\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Street Address: \_\_\_\_\_

\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Street Address: \_\_\_\_\_

\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☐ No

## 4. Additional Application number(s) or patent number(s):

A. Patent Application No.(s)

B. Patent No.(s)

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, I, Mohammad H.S. Amin of 305-1465 West 12th Ave. Vancouver BC V6H 1M7, hereby sell, assign and transfer to D-Wave Systems, Inc., a Canadian corporation, having a place of business at 1985 West Broadway, Suite 320, Vancouver, British Columbia V6J 4Y3 Canada, its successors and assigns, the entire right, title and interest throughout the world in my interest in the invention

**SUPERCONDUCTING DOT/ANTI-DOT FLUX QUBIT BASED ON TIME-REVERSAL  
SYMMETRY BREAKING EFFECTS**

for which Alexander Zagoskin, Geordie Rose, Marcel Franz, Jeremy Hilton and I have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request the Commissioner of Patents and Trademarks to issue all patents granted for my interest in said invention to the above-named assignee, its successors and assigns.

Declared before me at the city of  
Vancouver, in the Province of British  
Columbia, this 13<sup>th</sup> day of March, 2001.



Mohammad H.S. Amin



A Notary Public in and for the Province of British  
Columbia, or a Commissioner for taking affidavits  
for British Columbia.

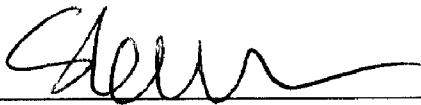
**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, I, Jeremy Hilton of 2-2160 W. 39th Ave, Vancouver, B.C., hereby sell, assign and transfer to D-Wave Systems, Inc., a Canadian corporation, having a place of business at 1985 West Broadway, Suite 320, Vancouver, British Columbia V6J 4Y3 Canada, its successors and assigns, the entire right, title and interest throughout the world in my interest in the invention

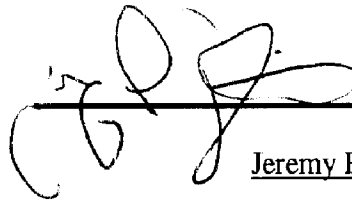
**SUPERCONDUCTING DOT/ANTI-DOT FLUX QUBIT BASED ON TIME-REVERSAL  
SYMMETRY BREAKING EFFECTS**

for which Mohammad H.S. Amin, Geordie Rose, Marcel Franz, Alexander Zagoskin and I have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request the Commissioner of Patents and Trademarks to issue all patents granted for my interest in said invention to the above-named assignee, its successors and assigns.

Declared before me at the City of  
Vancouver, in the Province of British  
Columbia, this 13<sup>th</sup> day of March, 2001.



A Notary Public in and for the Province of British  
Columbia, or a Commissioner for taking affidavits  
for British Columbia.



Jeremy Hilton

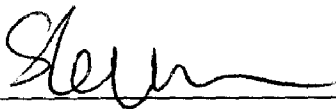
**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, I, Marcel Franz of 2875 OSOYODS CR., VANCOUVER BC, CANADA V6T 2G3, hereby sell, assign and transfer to D-Wave Systems, Inc., a Canadian corporation, having a place of business at 1985 West Broadway, Suite 320, Vancouver, British Columbia V6J 4Y3 Canada, its successors and assigns, the entire right, title and interest throughout the world in my interest in the invention

**SUPERCONDUCTING DOT/ANTI-DOT FLUX QUBIT BASED ON TIME-REVERSAL  
SYMMETRY BREAKING EFFECTS**

for which Mohammad H.S. Amin, Alexander Zagoskin, Geordie Rose, Jeremy Hilton and I have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request the Commissioner of Patents and Trademarks to issue all patents granted for my interest in said invention to the above-named assignee, its successors and assigns.

Declared before me at the city of  
Vancouver, in the Province of British  
Columbia, this 6<sup>th</sup> day of March, 2001.



A Notary Public in and for the Province of British  
Columbia, or a Commissioner for taking affidavits  
for British Columbia.



Marcel Franz

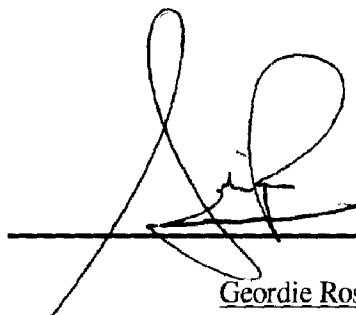
## ASSIGNMENT

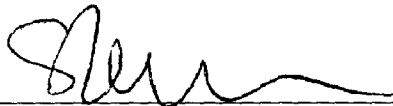
For good and valuable consideration, receipt of which is hereby acknowledged, I, Geordie Rose of 114-1424 WALNUT ST. VANCOUVER BC V6J 3R3 CANADA, hereby sell, assign and transfer to D-Wave Systems, Inc., a Canadian corporation, having a place of business at 1985 West Broadway, Suite 320, Vancouver, British Columbia V6J 4Y3 Canada, its successors and assigns, the entire right, title and interest throughout the world in my interest in the invention

### SUPERCONDUCTING DOT/ANTI-DOT FLUX QUBIT BASED ON TIME-REVERSAL SYMMETRY BREAKING EFFECTS

for which Mohammad H.S. Amin, Alexander Zagoskin, Marcel Franz, Jeremy Hilton and I have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request the Commissioner of Patents and Trademarks to issue all patents granted for my interest in said invention to the above-named assignee, its successors and assigns.

Declared before me at the City of Vancouver, in the Province of British Columbia, this 13<sup>th</sup> day of March, 2001.

  
\_\_\_\_\_  
Geordie Rose

  
\_\_\_\_\_  
A Notary Public in and for the Province of British Columbia, or a Commissioner for taking affidavits for British Columbia.

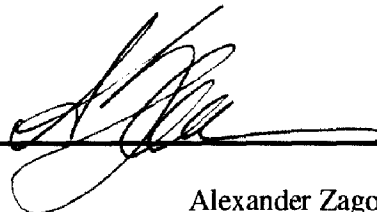
**ASSIGNMENT**

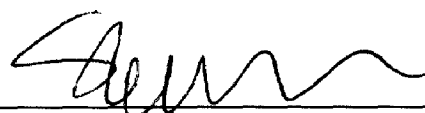
For good and valuable consideration, receipt of which is hereby acknowledged, I, Alexander Zagoskin of 2063 W. 8th Ave., Vancouver, BC, V6P 1W4, Canada, hereby sell, assign and transfer to D-Wave Systems, Inc., a Canadian corporation, having a place of business at 1985 West Broadway, Suite 320, Vancouver, British Columbia V6J 4Y3 Canada, its successors and assigns, the entire right, title and interest throughout the world in my interest in the invention

**SUPERCONDUCTING DOT/ANTI-DOT FLUX QUBIT BASED ON TIME-REVERSAL  
SYMMETRY BREAKING EFFECTS**

for which Mohammad H.S. Amin, Geordie Rose, Marcel Franz, Jeremy Hilton and I have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request the Commissioner of Patents and Trademarks to issue all patents granted for my interest in said invention to the above-named assignee, its successors and assigns.

Declared before me at the city of  
Vancouver, in the Province of British  
Columbia, this 13<sup>th</sup> day of March, 2001.

  
\_\_\_\_\_  
Alexander Zagoskin

  
\_\_\_\_\_  
A Notary Public in and for the Province of British  
Columbia, or a Commissioner for taking affidavits  
for British Columbia.