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1. Name of conveying party(ies)/Execution Date(s):

- 1) ROCHE, Philip Sept. 20, 2013
- 2) KIRK, Andrew Oct. 2, 2013
- 3) BEITEL, Lenore Sept. 20, 2013
- 4) PALIOURAS, Miltiadis Sept. 20, 2013
- 5) TRIFIRO, Mark Sept. 20, 2013
- 6) CHODAVARAPU, Vamsy Oct. 4, 2013
- 7) NAJIH, Mohamed Sept. 23, 2013
- 8) THIEMANN, Joachim Sept. 20, 2013

Additional name(s) of conveying party(ies) attached?  
attached?  Yes  No

2. Name and address of receiving party(ies):

NAME: The Royal Institution for the  
Advancement of Learning/McGill University

ADDRESS: 845 Sherbrooke Street West  
Unit 211  
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Montreal (Quebec) H3A 0G4  
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 Yes  No

3. Name of Conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
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- Executive Order 9424, Confirmatory License
- Other

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

This document is being filed together with a new application

A. Patent Application No.(s)  
13/943,312

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

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Attorney Docket No. : 3975-107

6. Total number of applications  
and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account
- None required (government interest not affecting title)

8. Deposit account number: 02-2135

Authorized User Name Brian A. Tollefson

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9. Signature.

*B. Tollefson*  
Signature

11-12-2013  
Date

Brian A. Tollefson, Reg. No. 46338  
Name of Person Signing

Total number of pages including cover sheet, attachments and documents: 11

PATENT

CH \$40.00 022135 13943312

ROBIC, MONTRÉAL, CANADA

USA-CANADA-WORLDWIDE  
CANADA-ÉTATS-UNIS-MONDIALE

## CESSION / ASSIGNMENT

Les soussignés (le soussigné):

The undersigned:

1. ROCHE, Philip
2. KIRK, Andrew
3. BEITEL, Lenore
4. PALIOURAS, Miltiadis
5. TRIFIRO, Mark
6. CHODAVARAPU, Vamsy
7. NAJIH, Mohamed
8. THIEMANN, Joachim

dont les adresses complètes sont (l'adresse  
complète est):

whose full postal addresses are (address is):

1. 814 Graham Boulevard, Town of Mont Royal (Quebec) H3P 2E6, CANADA
2. 5324 Hutchinson, Outremont (Quebec) H2V 4B3, CANADA
3. 4520 Bassborough Avenue, Montreal (Quebec) H4B 2P1, CANADA
4. 1412 Webb Avenue, Laval (Quebec) H7W 3R8, CANADA
5. 11350 Meunier, Montreal (Quebec) H3L 2Z6, CANADA
6. 7640 rue de Lima, Brossard (Quebec) J4Y 0H7, CANADA
7. 2800 boul. Cournoyer, Sorel-Tracy (Quebec) J3R 2N6, CANADA
8. 110 Water Street S. Kitchener (Ontario) N2G 1Z5, CANADA

En contrepartie de bonne et valable  
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considerations the receipt of which is  
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of:

## THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY

(ci-après appelé cessionnaire)

(hereinafter referred to as the assignee)

dont l'adresse postale complète est:

whose full postal address is:

**845 Sherbrooke Street West, Unit 211, Office of Sponsored Research  
Montreal (Quebec) H3A 0G4, CANADA**

vendons, cédon, et/ou transférons (vends,  
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to the said assignee all our (my) right, title and  
interest in the United States, Canada and  
everywhere else throughout the world, in and  
to the invention entitled:HEATING MECHANISM FOR DNA AMPLIFICATION, EXTRACTION OR STERILIZATION USING  
PHOTO-THERMAL NANOPARTICLES

telle que décrite en détail et/ou revendiquée:

as fully described and/or claimed:

-dans la demande de brevet provisoire  
américaine qui a été déposée le

-in the US provisional application which was  
filed on

**December 14, 2012**

sous le numéro

under serial number

**61/737, 175**

-dans la demande de brevet américaine qui a  
été déposée le

-in the US application which was filed on

**July 16, 2013**

sous le numéro

under serial number

**13/943,312**

-dans la demande de brevet canadienne qui a  
été déposée le

-in the Canadian application which was filed on

**July 16, 2013**

sous le numéro

under serial number

**2,821,335**

et tous nos (mes) droits, titres et intérêts  
correspondants dans et à tout brevet qui peut  
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and to all our (my) corresponding rights, titles  
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elsewhere throughout the world.

Nous nous engageons (je m'engage) également  
à signer tous les documents et formulaires qui  
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d'autres demandes au Canada, aux États-Unis  
et ailleurs dans le monde sur cette invention ou  
sur toute invention décrite dans la demande  
et/ou brevet, au nom du cessionnaire.

We (I) further agree to execute all the Forms  
and papers that may be necessary to file other  
applications in the United States, Canada and  
everywhere else throughout the world, on the  
above invention or any invention described in  
said application(s) and/or patent(s), in the  
name of the Assignee.

Nous nous engageons (je m'engage) aussi à  
communiquer au cessionnaire ou ses  
représentants tous faits concernant cette  
invention et dont nous avons (j'ai)  
connaissance; à faire toute déclaration  
nécessaire, et de façon générale à faire tout ce  
qui est possible pour aider le cessionnaire, son  
(ses) successeur(s) et cessionnaire(s), à obtenir  
et mettre en œuvre la protection appropriée  
pour ladite invention au Canada, aux États-Unis  
et partout à travers le monde.

We (I) also agree to communicate to the  
Assignee or his representatives any facts  
known to us (me) respecting said invention,  
make all rightful oaths and generally do  
everything possible to aid said Assignee, its  
(his) successors and assignees, to obtain and  
enforce proper protection for said invention in  
the United States, Canada and everywhere  
else throughout the world.

Nous donnons (je donne) le pouvoir à la firme ROBIC, 1001, Square Victoria - Bloc E - 8<sup>ième</sup> Étage, Montréal, Québec, CANADA, H2Z 2B7, d'insérer d'autres informations, tels la date d'exécution, ou le numéro de la demande et la date de dépôt de la demande lorsque ces informations seront connues.

The undersigned hereby grant(s) the firm of ROBIC, 1001, Victoria Square - Bloc E - 8<sup>th</sup> Floor, Montreal, Quebec, CANADA, H2Z 2B7, the power to insert further identification such as the execution date, or the application number and the filing date of the application when known.

La présente cession est régie et interprétée conformément aux lois du Québec et aux lois du Canada qui s'y appliquent.

This assignment shall be governed by and construed in accordance with the applicable laws of the Province of Quebec and Canada applicable therein.

En cas de contradiction entre la version française et anglaise des présentes, le sens qui convient le plus à la matière des présentes doit être celui applicable. Les termes susceptibles de deux sens doivent également être pris dans le sens qui convient le plus à la matière des présentes.

In case of contradiction between the English and French versions, the meaning that best conforms to the subject matter of this agreement shall apply. Words susceptible of two meanings shall also be given the meaning that best conforms to the subject matter of this agreement.

SIGNÉ à/  
SIGNED at Montreal Quebec Canada  
(Ville/City) (Province) (Pays/Country)

Ce/  
This 20 jour de/  
(jour/day) day of September 2013  
(mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature: J. Dufan  
Nom complet/  
Full name: J. Dufan

Signature: [Signature]  
Nom complet/  
Full Name: Philip ROCHE

SIGNÉ / SIGNED at MONTREAL, QUEBEC, CANADA  
 (Ville/City) (Province) (Pays/Country)

Ce/ This 2nd jour de/ day of October 2013  
 (jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

Signature: Deborah Davies  
 Nom complet/  
 Full name: Deborah Davies

INVENTEUR / INVENTOR

Signature: A Kirk  
 Nom complet/  
 Full Name: Andrew KIRK

SIGNÉ / SIGNED at \_\_\_\_\_  
 (Ville/City) (Province) (Pays/Country)

Ce/ This \_\_\_\_\_ jour de/ day of \_\_\_\_\_  
 (jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

Signature: \_\_\_\_\_  
 Nom complet/  
 Full name: \_\_\_\_\_

INVENTEUR / INVENTOR

Signature: \_\_\_\_\_  
 Nom complet/  
 Full Name: Lenore BEITEL

SIGNÉ à/  
SIGNED at \_\_\_\_\_  
(Ville/City) (Province) (Pays/Country)

Ce/  
This \_\_\_\_\_ jour de/  
day of \_\_\_\_\_  
(jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature: \_\_\_\_\_  
Nom complet/  
Full name: \_\_\_\_\_

Signature: \_\_\_\_\_  
Nom complet/  
Full Name : **Andrew KIRK**

SIGNÉ à/  
SIGNED at Montreal Quebec Canada  
(Ville/City) (Province) (Pays/Country)

Ce/  
This 20 jour de/  
day of September 2013  
(jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature: I Dotun  
Nom complet/  
Full name: Ibit Dotun

Signature: Lenore Beitel  
Nom complet/  
Full Name : **Lenore BEITEL**

SIGNÉ à/  
SIGNED at MONTRÉAL QUÉBEC CANADA  
(Ville/City) (Province) (Pays/Country)

Ce/  
This 20 jour de/  
(jour/day) day of SEPTEMBER 2013  
(mois/month) (année/year)

TÉMOIN / WITNESS

Signature:   
Nom complet/  
Full name: CARLOS ALVARADO

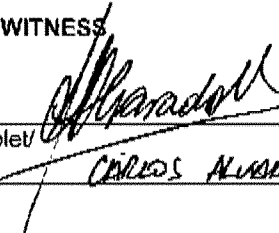
INVENTEUR / INVENTOR

Signature:   
Nom complet/  
Full Name: Miltiadis PALIOURAS

SIGNÉ à/  
SIGNED at MONTRÉAL QUÉBEC CANADA  
(Ville/City) (Province) (Pays/Country)

Ce/  
This 20 jour de/  
(jour/day) day of SEPTEMBER 2013  
(mois/month) (année/year)

TÉMOIN / WITNESS

Signature:   
Nom complet/  
Full name: CARLOS ALVARADO

INVENTEUR / INVENTOR

Signature:   
Nom complet/  
Full Name: Mark TRIFIRO

SIGNÉ / SIGNED at Broward Quebec Canada  
(Ville/City) (Province) (Pays/Country)

Ce/ This 4 jour de/ day of October 2013  
(Jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature: K.S. Sinha  
Nom complet/  
Full name: SHASHA KARRI

Signature: [Signature]  
Nom complet/  
Full Name: Vamsy CHODAVARAPU

SIGNÉ / SIGNED at \_\_\_\_\_  
(Ville/City) (Province) (Pays/Country)

Ce/ This \_\_\_\_\_ jour de/ day of \_\_\_\_\_  
(Jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature: \_\_\_\_\_  
Nom complet/  
Full name: \_\_\_\_\_

Signature: \_\_\_\_\_  
Nom complet/  
Full Name: Mohamed NARRH



SIGNÉ à / SIGNED at \_\_\_\_\_  
 (Ville/City) (Province) (Pays/Country)

Ce / This \_\_\_\_\_ jour de / day of \_\_\_\_\_  
 (jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature: \_\_\_\_\_  
 Nom complet / Full name: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Nom complet / Full Name : **Vamsy CHODAVARAPU**


SIGNÉ à / SIGNED at Montreal Quebec Canada  
 (Ville/City) (Province) (Pays/Country)

Ce / This 23<sup>rd</sup> jour de / day of September 2013  
 (jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature:   
 Nom complet / Full name: **MARIAM NAJIH**

Signature:   
 Nom complet / Full Name : **Mohamed NAJIH**

SIGNÉ à/ SIGNED at Oldenburg Niedersachsen Germany  
(Ville/City) (Province) (Pays/Country)

Ce/ This 20 jour de/ day of September 2013  
(jour/day) (mois/month) (année/year)

TÉMOIN / WITNESS

INVENTEUR / INVENTOR

Signature: [Signature]  
Nom complet/  
Full name: Madeline Pool

Signature: [Signature]  
Nom complet/  
Full Name: Joachim THIEMANN

LU ET APPROUVÉ / READ AND APPROVED

SIGNÉ à/ SIGNED at Montreal Quebec Canada  
(Ville/City) (Province) (Pays/Country)

Ce/ This 7 jour de/ day of October 2013  
(jour/day) (mois/month) (année/year)

Par/By: **THE ROYAL INSTITUTION FOR THE  
ADVANCEMENT OF LEARNING/MCGILL  
UNIVERSITY**

Signature: [Signature]  
Nom/Name: Michelle Beaulieu  
Titre/Title: Associate Director