

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XIAOLI MA	10/13/2016
QI ZHOU	12/12/2016
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15025027
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NAME OF SUBMITTER:	RYAN A. SCHNEIDER
SIGNATURE:	/Ryan A. Schneider, Reg. #45083/
DATE SIGNED:	01/25/2017
Total Attachments: 4	
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ASSIGNMENT

WHEREAS, We, **Xiaoli Ma** and **Qi Zhou** (collectively referred to as "Assignors"), have invented certain improvements in **SCHNORR-EUCHNER EXPANSIONS AND THEIR FAST IMPLEMENTATIONS**, for which a U.S. Patent Application was filed March 25, 2016 and provided Serial No. 15/025,027, which claims the benefit of PCT Application No. PCT/US2014/53889, filed September 3, 2014, which claims the benefit of U.S. Provisional Application Serial No. 61/909,429, filed on November 27, 2013; and U.S. Provisional Application Serial No. 61/882,919, filed September 26, 2013, and other future applications may be filed, (all collectively referred to as the "Application"), and whereas

GEORGIA TECH RESEARCH CORPORATION
505 Tenth Street, N.W.
Atlanta, Georgia 30332-0415
United States

("Assignee") desires to purchase all of Assignors' rights in same;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said Assignee, the receipt and sufficiency of which are hereby acknowledged, Assignor has and by these presents does hereby sell, assign, transfer and convey unto said Assignee all of Assignors' rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application ("CPA"), or request for continued examination ("RCE") thereof, and in and to all inventions and improvements thereon (herein collectively referred to as "Related US Applications"), preparatory to obtaining Letters Patent of the United States therefore; and Assignor hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said Application and Related US Applications, to Assignee, for its interest and for the sole use and benefit of Assignee and its assigns and legal representatives.

For the same consideration, Assignor, by these presents do sell, assign, and transfer to Assignee all of Assignors' rights, title and interest in and to any foreign and international applications related to and/or seeking benefit of said Application and Related US Applications, and in and to all inventions and improvements thereon (herein collectively referred to as "Related Foreign Applications"), in and to any Letters Patent and similar protective rights granted on said Related Foreign Applications, and in and to the right to claim any applicable priority rights arising from or required for said Related Foreign Applications under the terms of any applicable conventions, treaties, statutes, or regulations, said Related Foreign Applications to be filed and issued in the name of Assignee or its designee, insofar as permitted by applicable law.

For the same consideration, Assignor agree, without charge to Assignee, but at Assignee's expense, to sign all lawful papers, execute said Application, Related US Applications and Related Foreign Applications, make all assignments and rightful oaths, assist in prosecution of said Application, Related US Applications and Related Foreign Applications, assist in prosecution of legal proceedings, and generally do everything reasonably possible to aid Assignee its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

AND, for the same consideration, Assignor also hereby sell, assign and transfer unto Assignee all of Assignors' rights and claims to sue for damages and other remedies with respect to any and all past infringement of all said Application, Related US Applications, and Related Foreign Applications, including said inventions and improvements which may have occurred before the date of this Assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 13 day of October, 2016.

Xiaoli Ma (SEAL)
Xiaoli Ma

Witnessed by: [Signature]
Signature

Date: 10/13/2016

Shigang Yang
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: 10/13/2016

Jiahui Pan
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2016.

(SEAL)
Xiaoli Ma

State of _____

County of _____

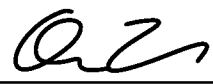
On this ____ day of _____, 2016, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

NOTARY PUBLIC

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 12 day of
December, 2016.



_____(SEAL)
Qi Zhou

Witnessed by: Wencen Wu
Signature

Date: 12/12/2016

Wencen Wu
Printed Name of Witness

Witnessed by: Jianxun Liu
Signature

Date: 12/12/2016

Jianxun Liu
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of
_____, 2016.

_____(SEAL)
Qi Zhou

State of _____

County of _____

On this ____ day of _____, 2016, before me, a notary public, came to me
known and known to be the individual described in and who executed the foregoing assignment,
and he duly acknowledged the same to be his free act and deed.

NOTARY PUBLIC

(SEAL)

My Commission Expires:

In Witness Whereof, Assignee hereby accepts from Assignors the sale, assignment, transfer and conveyance unto said Assignee of the full, exclusive and entire right, title, and interest in and to said Application, Related US Applications and Related Foreign Applications, by its duly authorized officer this 20th day of January, 2017.

**Georgia Tech Research Corporation
(Assignee)**

By: Terry Bray
Name: Terry Bray
Title: Authorized Signatory

Witnessed by: Kathleen Scott Havey
Signature

Date: 1/20/17

Kathleen Scott Havey
Printed Name of Witness

Witnessed by: Rene O. Mendors
Signature

Date: 1/20/17

Rene O. Mendors
Printed Name of Witness