

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Bhuvaragasamy G. Ravi	09/09/2011
Parthasarathy S. Raghavan	09/12/2011
Chandra P. Khattak	08/29/2011
Carl Chartier	09/21/2011
David Lackey	09/12/2011
Dean C. Skelton	08/10/2011
RECEIVING PARTY DATA	
Name:	GT Solar, Inc.
Street Address:	243 Daniel Webster Highway
City:	Merrimack
State/Country:	NEW HAMPSHIRE
Postal Code:	03054
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13205155
CORRESPONDENCE DATA	
Fax Number:	(617)227-4420
Phone:	617.517.5529
Email:	lbrown@eapdlaw.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Stephen D. LeBarron
Address Line 1:	P.O. Box 55874
Address Line 4:	Boston, MASSACHUSETTS 02205
ATTORNEY DOCKET NUMBER:	84897(42579)

CH \$40.00 13205155

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**PATENT
 REEL: 026972 FRAME: 0449**

NAME OF SUBMITTER:

Stephen D. LeBarron

Total Attachments: 9

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Bhuvanaragasamy G. Ravi; Parthasarathy S. Raghavan; Chandra P Khattak; Carl Chartier; Dave Lackey; and Dean C Skelton (hereinafter referred to as Assignors), residing at 17 Normandy Way, Nashua, New Hampshire 03063; 2 Normandy Way, Nashua, New Hampshire 03063; 11 Forsyth Drive, Nashua, New Hampshire 03062; 152 Maplehurst Avenue, Manchester, New Hampshire 03104; 5 Bowers Landing Drive, Apt. #306, Merrimack, New Hampshire 03054; and 165 NH Rt. 119W, Fitzwilliam, New Hampshire 03447, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in CRYSTAL GROWTH APPARATUS WITH CERAMIC COATING AND METHODS FOR PREVENTING MOLTEN MATERIAL BREACH IN A CRYSTAL GROWTH APPARATUS, set forth in a Patent application for Letters Patent of the United States, already filed on August 8, 2011 as U.S. Patent Application No. 13/205,155; and

WHEREAS, GT Solar, Inc, a Corporation organized under and pursuant to the laws of Delaware having its principal place of business at 243 Daniel Webster Highway, Merrimack, New Hampshire 03054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial

Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS ANGELL PALMER & DODGE LLP

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

BGR
Bhuvaragasamy G. Ravi

Date: 09/09/2011

United States of America)
State of New Hampshire) ss:
County of Hillsborough)

On this 9th day of September, 2011, before me personally came Bhuvaragasamy G. Ravi, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Jessica Trow
Notary Public

JESSICA TROW
Notary Public-New Hampshire
My Commission Expires
October 21, 2014

P. S. Raghavan

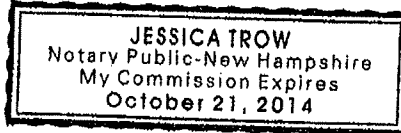
Parthasarathy S. Raghavan

Date: 09/12/2011

United States of America)
State of New Hampshire) ss.:
County of Hillsborough)

On this 12th day of September, 2011, before me personally came Parthasarathy S. Raghavan, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Jessica Trow
Notary Public



Chandra P. Khattak
Chandra P. Khattak

Date: Aug. 29, 2011

United States of America)
State of New Hampshire) ss.:
County of Hillsborough)

On this 29th day of AUGUST, Chandra Khattak, before me personally came Chandra P. Khattak, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Deborah E. Nichols
Notary Public

DEBORAH E. NICHOLS, Notary Public
My Commission Expires February 16, 2016

Carl Chartier

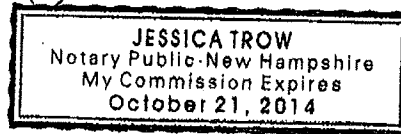
Carl Chartier

Date: 9/21/11

United States of America)
State of New Hampshire) ss.:
County of Hillsborough)

On this 21st day of September, 2011, before me personally came Carl Chartier, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Jessica Trow
Notary Public



David Lackey
Dave Lackey

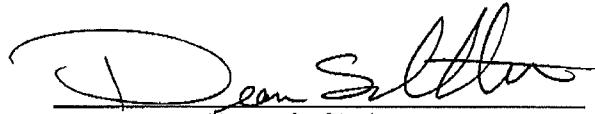
Date: 9-12-11

United States of America)
State of New Hampshire) ss.:
County of Hillsborough)

On this 12th day of September, 2011, before me personally came Dave Lackey, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Jessica Trow
Notary Public


JESSICA TROW
Notary Public-New Hampshire
My Commission Expires
October 21, 2014


Dean C. Skelton

Date: August 10, 2011

United States of America)
State of New Hampshire) ss.:
County of Hillsborough)

On this 10th day of August, 2011, before me personally came Dean C. Skelton, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

