PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Santhana Raghavan Parthasarathy	10/31/2008
Yuepeng Wan	08/25/2008
Carl Chartier	08/03/2008
Jonathan A. Talbott	09/03/2008
Kedar P. Gupta	10/17/2008

RECEIVING PARTY DATA

Name:	GT Solar Incorporated	
Street Address:	243 Daniel Webster Highway	
City:	Merrimack	
State/Country:	NEW HAMPSHIRE	
Postal Code:	03054	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11394970

CORRESPONDENCE DATA

Fax Number: (603)886-4796

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 603-886-6100

Email: Patents@VernMaine.com

Correspondent Name: Vernon C. Maine

Address Line 1: Vern Maine and Associates, PO Box 3445
Address Line 4: Nashua, NEW HAMPSHIRE 03061-3445

ATTORNEY DOCKET NUMBER:	GT002-US	

NAME OF SUBMITTER: Vernon C. Maine

PATENT REEL: 021800 FRAME: 0398

500697839

3P \$40 00 113949

Total Attachments: 8
source=Assignment#page1.tif
source=Assignment#page3.tif
source=Assignment#page4.tif
source=Assignment#page5.tif
source=Assignment#page6.tif
source=Assignment#page7.tif
source=Assignment#page8.tif

PATENT REEL: 021800 FRAME: 0399

We, the undersigned individuals, have invented a SOLIDIFICATION OF CRYSTALLINE SILICON FROM REUSABLE CRUCIBLE MOLDS, (Atty Dkt. No. GT002-US) and having on the 30day of 1000, 200k, executed applications for patent as inventors, (and we hereby authorize our attorney to prosecute said application and to here insert the filing date and serial number of said application when known, US Application Serial No. 11/394970, filed on the 31st day of March, 2006 describing the same and based thereon, for good and valuable consideration, receipt of which is hereby acknowledged from GT SOLAR INCORPORATED, 243 Daniel Webster Highway, Merrimack NH 03054, a Delaware entity, hereinafter called Assignee (which term shall include its successors and assigns) do hereby sell, assign and transfer unto Assignee our entire right, title, and interest as inventors, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or any part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration we do also hereby sell, assign and transfer unto the Assignee all our rights under the International Convention for the Protection of Industrial Property and all other treaties of like purpose in respect of said inventions and said applications and we do hereby authorize Assignee to apply in our names for patents and like rights of exclusion on or for said inventions in all countries, claiming (if Assignee so desires) the priority of the filing date of said application under provisions of said Convention or any such other treaty;

And for the same consideration we do hereby agree for ourselves and for our respective heirs, executors and administrators, promptly upon request of the Assignee, to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by Assignee to fully to secure to it our said right, title, and interest as aforesaid in and to said inventions, application, and said several patents and like rights of exclusion, or any of them;

And we do hereby authorize and request the Commissioner of Patents of the United States of America and corresponding Officer of each country foreign thereto to issue to the Assignee any and all patents and like rights of exclusion which may be granted in any country upon said application or on or for said inventions;

And we do hereby covenant for ourselves and for our respective legal representatives and agree with Assignee that we have granted no right or license to make, use or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title and interest in and to said inventions as the inventor has not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

ASSIGNMENT SIGNATURE PAGE(S) ATTACHED

ASSIGNMENT SIGNATURE PAGE # of (OFFICIANT: REPEAT THIS PAGE AS OFTEN AS NEC	
TITLE: SOLIDIFICATION OF CRYSTALLI CRUCIBLE MOLDS	INE SILICON FROM REUSABLE
ATTY DKT. NO. <u>GT002-US</u>	·
IN WITNESS of these grants and covenants of As	signment, made by us in favor of
(Assignee) GT SOLAR INCORPORATED	9
we hereonto set our hands and seals.	
#1 P Santh-14-4 Santhana Raghavan Parthasarathy	31 oct 08 Date Signed
	Date Signed
#2Yuepeng Wan	Date Signed
#3	
Carl Chartier	Date Signed
#4	And the second s
Jonathan A. Talbott	Date Signed
#5Kedar P. Gupta	Date Signed
State of)	
County of	
Before me this day of, Yuepeng Wan, Carl Chartier, Jonathan A. Tor provided satisfactory identification and acknowled and deed.	2008, Santhana Raghavan Parthasarathy, Salbott, Kedar P. Gupta, personally appeared ledged the foregoing instrument to be their free
SEAL:	

Assignment, page 2 of 2

Notary Public/Justice of the Peace

We, the undersigned individuals, have invented a **SOLIDIFICATION OF** CRYSTALLINE SILICON FROM REUSABLE CRUCIBLE MOLDS, (Atty Dkt. No. GT002-US) and having on the 30 day of 1000, 2006 executed applications for patent as inventors, (and we hereby authorize our attorney to prosecute said application and to here insert the filing date and serial number of said application when known, US Application Serial No. 11/394970, filed on the 31st day of March, 2006 describing the same and based thereon, for good and valuable consideration, receipt of which is hereby acknowledged from GT SOLAR INCORPORATED, 243 Daniel Webster Highway, Merrimack NH 03054, a Delaware entity, hereinafter called Assignee (which term shall include its successors and assigns) do hereby sell, assign and transfer unto Assignee our entire right, title, and interest as inventors, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or any part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration we do also hereby sell, assign and transfer unto the Assignee all our rights under the International Convention for the Protection of Industrial Property and all other treaties of like purpose in respect of said inventions and said applications and we do hereby authorize Assignee to apply in our names for patents and like rights of exclusion on or for said inventions in all countries, claiming (if Assignee so desires) the priority of the filing date of said application under provisions of said Convention or any such other treaty;

And for the same consideration we do hereby agree for ourselves and for our respective heirs, executors and administrators, promptly upon request of the Assignee, to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by Assignee to fully to secure to it our said right, title, and interest as aforesaid in and to said inventions, application, and said several patents and like rights of exclusion, or any of them;

And we do hereby authorize and request the Commissioner of Patents of the United States of America and corresponding Officer of each country foreign thereto to issue to the Assignee any and all patents and like rights of exclusion which may be granted in any country upon said application or on or for said inventions;

And we do hereby covenant for ourselves and for our respective legal representatives and agree with Assignee that we have granted no right or license to make, use or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title and interest in and to said inventions as the inventor has not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

ASSIGNMENT SIGNATURE PAGE(S) ATTACHED

ASSIGNMENT SIGNATURE PAGE # 2 of 2 (OFFICIANT: REPEAT THIS PAGE AS OFTEN AS NECESSARY TO OBTAIN ALL SIGNATURES)

TITLE: SOLIDIFICATION OF CRYSTALLINE SILICON FROM REUSABLE

CRUCIBLE MOLDS ATTY DKT. NO. GT002-US IN WITNESS of these grants and covenants of Assignment, made by us in favor of (Assignee) GT SOLAR INCORPORATED we hereonto set our hands and seals. #1 Date Signed Santhana Raghavan Parthasarathy 08-25-2008 Date Signed Carl Chartier Date Signed Jonathan A. Talbott Date Signed Kedar P. Gupta Date Signed State of _____ County of Before me this _____ day of _____, 2008, ___ Santhana Raghavan Parthasarathy, ____ Yuepeng Wan, ____ Carl Chartier, ____ Jonathan A. Talbott, ____ Kedar P. Gupta, personally appeared or provided satisfactory identification and acknowledged the foregoing instrument to be their free act and deed. SEAL: Notary Public/Justice of the Peace

We, the undersigned individuals, have invented a SOLIDIFICATION OF CRYSTALLINE SILICON FROM REUSABLE CRUCIBLE MOLDS, (Atty Dkt. No. GT002-US) and having on the 30 day of March, 2006, executed applications for patent as inventors, (and we hereby authorize our attorney to prosecute said application and to here insert the filing date and serial number of said application when known, US Application Serial No. 11/394970, filed on the 31st day of March, 2006 describing the same and based thereon, for good and valuable consideration, receipt of which is hereby acknowledged from GT SOLAR INCORPORATED, 243 Daniel Webster Highway, Merrimack NH 03054, a Delaware entity, hereinafter called Assignee (which term shall include its successors and assigns) do hereby sell, assign and transfer unto Assignee our entire right, title, and interest as inventors, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or any part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration we do also hereby sell, assign and transfer unto the Assignee all our rights under the International Convention for the Protection of Industrial Property and all other treaties of like purpose in respect of said inventions and said applications and we do hereby authorize Assignee to apply in our names for patents and like rights of exclusion on or for said inventions in all countries, claiming (if Assignee so desires) the priority of the filing date of said application under provisions of said Convention or any such other treaty;

And for the same consideration we do hereby agree for ourselves and for our respective heirs, executors and administrators, promptly upon request of the Assignee, to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by Assignee to fully to secure to it our said right, title, and interest as aforesaid in and to said inventions, application, and said several patents and like rights of exclusion, or any of them;

And we do hereby authorize and request the Commissioner of Patents of the United States of America and corresponding Officer of each country foreign thereto to issue to the Assignee any and all patents and like rights of exclusion which may be granted in any country upon said application or on or for said inventions;

And we do hereby covenant for ourselves and for our respective legal representatives and agree with Assignee that we have granted no right or license to make, use or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title and interest in and to said inventions as the inventor has not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

ASSIGNMENT SIGNATURE PAGE(S) ATTACHED

ASSIGNMENT SIGNATURE PAGE # (OFFICIANT: REPEAT THIS PAGE AS OFTEN AS NECESSARY TO OBTAIN ALL SIGNATURES) TITLE: SOLIDIFICATION OF CRYSTALLINE SILICON FROM REUSABLE **CRUCIBLE MOLDS** ATTY DKT. NO. GT002-US IN WITNESS of these grants and covenants of Assignment, made by us in favor of (Assignee) GT SOLAR INCORPORATED we hereonto set our hands and seals. Date Signed Santhana Raghavan Parthasarathy Date Signed Yuepeng Wan Carl Chartier #5 Date Signed Kedar P. Gupta State of County of Before me this _____ day of ______, 2008, ___ Santhana Raghavan Parthasarathy, ____ Yuepeng Wan, ___ Carl Chartier, ___ Jonathan A. Talbott, ___ Kedar P. Gupta, personally appeared or provided satisfactory identification and acknowledged the foregoing instrument to be their free act and deed. SEAL:

Assignment, page 2 of 2

Notary Public/Justice of the Peace

We, the undersigned individuals, have invented a **SOLIDIFICATION OF** CRYSTALLINE SILICON FROM REUSABLE CRUCIBLE MOLDS, (Atty Dkt. No. GT002-US) and having on the day of March, 2006 executed applications for patent as inventors, (and we hereby authorize our attorney to prosecute said application and to here insert the filing date and serial number of said application when known, US Application Serial No. 11/394970, filed on the 31st day of March, 2006 describing the same and based thereon, for good and valuable consideration, receipt of which is hereby acknowledged from GT SOLAR INCORPORATED, 243 Daniel Webster Highway, Merrimack NH 03054, a Delaware entity, hereinafter called Assignee (which term shall include its successors and assigns) do hereby sell, assign and transfer unto Assignee our entire right, title, and interest as inventors, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or any part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration we do also hereby sell, assign and transfer unto the Assignee all our rights under the International Convention for the Protection of Industrial Property and all other treaties of like purpose in respect of said inventions and said applications and we do hereby authorize Assignee to apply in our names for patents and like rights of exclusion on or for said inventions in all countries, claiming (if Assignee so desires) the priority of the filing date of said application under provisions of said Convention or any such other treaty;

And for the same consideration we do hereby agree for ourselves and for our respective heirs, executors and administrators, promptly upon request of the Assignee, to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by Assignee to fully to secure to it our said right, title, and interest as aforesaid in and to said inventions, application, and said several patents and like rights of exclusion, or any of them;

And we do hereby authorize and request the Commissioner of Patents of the United States of America and corresponding Officer of each country foreign thereto to issue to the Assignee any and all patents and like rights of exclusion which may be granted in any country upon said application or on or for said inventions;

And we do hereby covenant for ourselves and for our respective legal representatives and agree with Assignee that we have granted no right or license to make, use or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title and interest in and to said inventions as the inventor has not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

ASSIGNMENT SIGNATURE PAGE(S) ATTACHED

ASSIGNMENT SIGNATURE PAGE #	of	
(OFFICIANT: REPEAT THIS PAGE AS OFTEN A	AS NECESSAR	Y TO OBTAIN ALL SIGNATURES)

TITLE: SOLIDIFICATION OF CRYSTALLINE SILICON FROM REUSABLE **CRUCIBLE MOLDS** ATTY DKT. NO. GT002-US IN WITNESS of these grants and covenants of Assignment, made by us in favor of GT SOLAR INCORPORATED (Assignee) we hereonto set our hands and seals. #1_____Santhana Raghavan Parthasarathy Date Signed #2_____Yuepeng Wan Date Signed Carl Chartier Date Signed Date Signed Jonathan A. Talbott #5 <u>Kedar P. Cupta</u> Kedar P. Gupta State of NewHampsHIRE County of HILLS BAROUGH ____ or provided satisfactory identification and acknowledged the foregoing instrument to be their free act and deed.

Notary Public/Justice of the

Expires: 5/18/2010

Assignment, page 2 of 2

SEAL:

RECORDED: 11/07/2008