

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5762919

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
QIANG ZHU	07/24/2018
TAO TANG	07/24/2018
YING YING LESLEY LOW	07/24/2018
XIANG YUN DEBBIE SOO	07/24/2018
JIAN WEI XU	07/24/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH
<b>Street Address:</b>	1 FUSIONOPOLIS WAY,
<b>Internal Address:</b>	#20-10 CONNEXIS
<b>City:</b>	SINGAPORE
<b>State/Country:</b>	SINGAPORE
<b>Postal Code:</b>	138632
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16496955
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)703-5399
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	408-341-3000
<b>Email:</b>	Lester.Vincent@wbd-us.com
<b>Correspondent Name:</b>	WOMBLE BOND DICKINSON (US) LLP
<b>Address Line 1:</b>	P.O. BOX 7037
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30357-0037
<b>ATTORNEY DOCKET NUMBER:</b>	9322P168
<b>NAME OF SUBMITTER:</b>	LESTER J. VINCENT
<b>SIGNATURE:</b>	/LESTER J. VINCENT/
<b>DATE SIGNED:</b>	10/09/2019
<b>Total Attachments: 10</b>	

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DEED OF ASSIGNMENT

THIS DEED made the 24 day of July two thousand and eighteen  
(2018)

BETWEEN,

**ZHU, Qiang**

c/o Institute of Materials Research and Engineering,  
2 Fusionopolis Way,  
#08-03,  
Innovis,  
Singapore 138634

**TANG, Tao**

c/o Institute of Materials Research and Engineering,  
2 Fusionopolis Way,  
#08-03,  
Innovis,  
Singapore 138634

**LOW, Ying Ying Lesley**

c/o Institute of Materials Research and Engineering,  
2 Fusionopolis Way,  
#08-03,  
Innovis,  
Singapore 138634

**SOO, Xiang Yun Debbie**

c/o Institute of Materials Research and Engineering,  
2 Fusionopolis Way,  
#08-03,  
Innovis,  
Singapore 138634

XU, Jian Wei  
c/o Institute of Materials Research and Engineering,  
2 Fusionopolis Way,  
#08-03,  
Innovis,  
Singapore 138634

[hereinafter referred to as "the Assignors"]

AND

Agency for Science, Technology and Research  
1 Fusionopolis Way,  
#20-10,  
Connexis North Tower,  
Singapore 138632

[hereinafter referred to as "the Assignee"]

WHEREAS the Assignors warrant that the Assignors are the true inventors of an invention with the title "A Phase Change Material Composition and Method of Preparation Thereof" [hereinafter referred to as "the Invention"] the subject of the International Patent Application No. **PCT/SG2018/050133** including the designation of the United States of America [hereinafter referred to as "the Application"]

AND WHEREAS the Assignors have agreed to assign to the Assignee and the Assignee desires to take assignment of all rights, title and interest of the Assignors in and to the Invention and the Application,

NOW THIS DEED WITNESSETH

1. In consideration of the sum of one dollar (\$1) and other good and valuable consideration receipt of which is hereby acknowledged by the Assignors, the Assignors hereby assign to the Assignee all of their rights, title and interest in and to the Invention and the Application including:

- (a) all rights and powers to make one or more applications for Letters Patent or other form of protection in the name of the Assignee in Singapore, the United States of America and in any other countries of the world in respect of the Invention, and all rights, title and interest in and to any Letters Patent or other form of protection to mature from any such application,

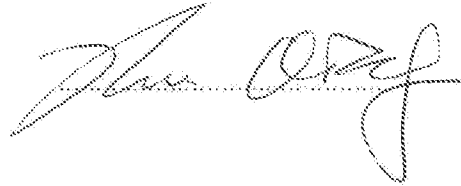
- (b) the rights and powers to prosecute the Application and all rights, title and interest in and to any Patent or Patents granted thereon together with any extension of the term of any such Patent or Patents as may be granted, SAVE THAT nothing in this Deed shall prevent the filing or proceeding of an Application to which this Deed relates, in the name of the Assignors where such filing or proceeding of such Application is beneficial to the interests of the Assignee,
- (c) the rights and powers to seek protection in countries other than Singapore by way of Patent, Petty Patent, Utility Model, Design Patent or other appropriate form of protection for the Invention, by way of application(s) for such protection made to the appropriate authorities in such other country or countries as the Assignee in its complete discretion may elect, whether or not any such foreign application(s) be made claiming International Convention priority from the Application hereby assigned,
- (d) any Copyright owned by the Assignors in and to any drawings relating to the subject matter of the Invention together with the rights and powers such as subsist at the date of this Deed,
- (e) to apply for registration of Copyright, Design, Design-Patent or like protection in the name of the Assignee in Singapore and in any other countries of the world in respect of the subject matter of the said drawings and to any registration of Copyright, Design-Patent or like protection which matures from any such application, together with the rights to sue in respect of any infringement of that Copyright which may have occurred before the date of this Deed,

2. The Assignors agree, at the expense of the Assignee, to sign, execute and deliver all documents, forms and papers reasonably required to be produced or obtained by the Assignee in connection with any application for Letters Patent or other form of protection for the subject matter of the Invention, in Singapore or elsewhere.


IN WITNESS WHEREOF the Assignors and Assignee executed this Deed the day and year first hereinbefore written.

ASSIGNORS

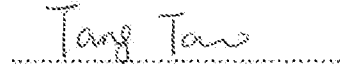
SIGNED, SEALED and DELIVERED  
By the said ZHU, Qiang



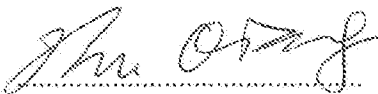
in the presence of:

  
.....  
(Witness) *Soo Xiang Fun Debbie*

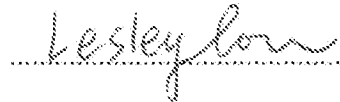
SIGNED, SEALED and DELIVERED  
By the said TANG, Tao



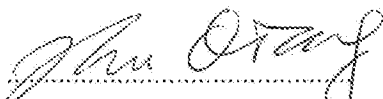
in the presence of:

  
.....  
(Witness) *Zhu Qiang*

SIGNED, SEALED and DELIVERED  
By the said LOW, Ying Ying Lesley



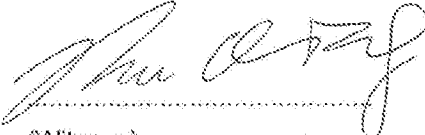
in the presence of:

  
.....  
(Witness) *Zhu Qiang*

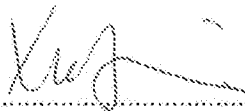
SIGNED, SEALED and DELIVERED  
By the said SOO, Xiang Yun Debbie

  
.....

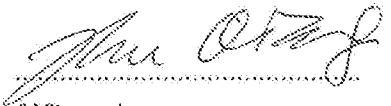
in the presence of:

  
.....  
(Witness) Zhu Qiang

SIGNED, SEALED and DELIVERED  
By the said XU, Jian Wei

  
.....

in the presence of:

  
.....  
(Witness) Zhu Qiang

**ASSIGNEE**

FOR AND ON BEHALF OF  
By the said  
**Agency for Science, Technology and Research**

.....

in the presence of:

.....  
(Witness)

DEED OF ASSIGNMENT

THIS DEED made the 16 day of July two thousand and eighteen (2018)

BETWEEN,

**ZHU, Qiang**

c/o Institute of Materials Research and Engineering,  
2 Fusionopolis Way,  
#08-03,  
Innovis,  
Singapore 138634

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**XU, Jian Wei**  
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Singapore 138634

[hereinafter referred to as "the Assignors"]

AND

**Agency for Science, Technology and Research**  
1 Fusionopolis Way,  
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AND WHEREAS the Assignors have agreed to assign to the Assignee and the Assignee desires to take assignment of all rights, title and interest of the Assignors in and to the Invention and the Application,

NOW THIS DEED WITNESSETH

1. In consideration of the sum of one dollar (\$1) and other good and valuable consideration receipt of which is hereby acknowledged by the Assignors, the Assignors hereby assign to the Assignee all of their rights, title and interest in and to the Invention and the Application including:
  - (a) all rights and powers to make one or more applications for Letters Patent or other form of protection in the name of the Assignee in Singapore, the United States of America and in any other counties of the world in respect of the Invention, and all rights, title and interest in and to any Letters Patent or other form of protection to mature from any such application,

- (b) the rights and powers to prosecute the Application and all rights, title and interest in and to any Patent or Patents granted thereon together with any extension of the term of any such Patent or Patents as may be granted, SAVE THAT nothing in this Deed shall prevent the filing or proceeding of an Application to which this Deed relates, in the name of the Assignors where such filing or proceeding of such Application is beneficial to the interests of the Assignee,
- (c) the rights and powers to seek protection in countries other than Singapore by way of Patent, Petty Patent, Utility Model, Design Patent or other appropriate form of protection for the Invention, by way of application(s) for such protection made to the appropriate authorities in such other country or countries as the Assignee in its complete discretion may elect, whether or not any such foreign application(s) be made claiming International Convention priority from the Application hereby assigned,
- (d) any Copyright owned by the Assignors in and to any drawings relating to the subject matter of the Invention together with the rights and powers such as subsist at the date of this Deed,
- (e) to apply for registration of Copyright, Design, Design-Patent or like protection in the name of the Assignee in Singapore and in any other countries of the world in respect of the subject matter of the said drawings and to any registration of Copyright, Design-Patent or like protection which matures from any such application, together with the rights to sue in respect of any infringement of that Copyright which may have occurred before the date of this Deed,

2. The Assignors agree, at the expense of the Assignee, to sign, execute and deliver all documents, forms and papers reasonably required to be produced or obtained by the Assignee in connection with any application for Letters Patent or other form of protection for the subject matter of the Invention, in Singapore or elsewhere.

IN WITNESS WHEREOF the Assignors and Assignee executed this Deed the day and year first hereinbefore written.

ASSIGNORS

SIGNED, SEALED and DELIVERED  
By the said **ZHU, Qiang**

.....  
in the presence of:

.....  
(Witness)

SIGNED, SEALED and DELIVERED  
By the said **TANG, Tao**

.....  
in the presence of:

.....  
(Witness)

SIGNED, SEALED and DELIVERED  
By the said **LOW, Ying Ying Lesley**

.....  
in the presence of:

.....  
(Witness)

SIGNED, SEALED and DELIVERED  
By the said SOO, Xiang Yun Debbie

.....  
in the presence of:

.....  
(Witness)

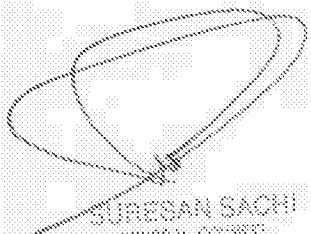
SIGNED, SEALED and DELIVERED  
By the said XU, Jian Wei

.....  
in the presence of:

.....  
(Witness)

**ASSIGNEE**

FOR AND ON BEHALF OF  
By the said  
**Agency for Science, Technology and Research**



SURESAN SACHI  
.....  
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH

in the presence of:

  
.....  
(Witness) *CAROL A Koff*

(4108429\_1):NSR