

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5405865

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NORITAKE CO., LIMITED	03/05/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HERAEUS PRECIOUS METALS NORTH AMERICA CONSHOHOCKEN LLC
<b>Street Address:</b>	24 UNION HILL ROAD
<b>City:</b>	WEST CONSHOHOCKEN
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19428
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	8778232
<b>Patent Number:</b>	8889039
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)420-2201
<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>	2024202200
<b>Email:</b>	jyeddo@blankrome.com
<b>Correspondent Name:</b>	BLANK ROME LLP
<b>Address Line 1:</b>	1825 EYE STREET NW
<b>Address Line 4:</b>	WASHINGTON, D.C. 20006-5403
<b>ATTORNEY DOCKET NUMBER:</b>	136617.00100
<b>NAME OF SUBMITTER:</b>	JUDY YEDDO
<b>SIGNATURE:</b>	/Judy Yeddo/
<b>DATE SIGNED:</b>	03/05/2019
<b>Total Attachments: 2</b>	
source=Assignment#page1.tif	
source=Assignment#page2.tif	

### Transfer of Ownership

made and entered into

by and between

**Heraeus Precious Metals North America Conshohocken LLC**  
24 Union Hill Road  
PA 19428 Conshohocken  
USA

-hereinafter referred to as "Heraeus" —

and

**Noritake Co., Limited**  
3-1-36 Noritake-Shinmachi,  
Nishi-ku,  
Nagoya, 451-8501  
Japan

- hereinafter referred to as "Noritake" —

- both hereinafter jointly referred to as the "Parties" or individually as "Party".

---

Noritake confirms that Noritake is the unrestricted owner of the following  
patents/patent

applications:

No.	Country	Application number	Patent number
	Name of invention		
1-1	Taiwan	99121030	1544496
	LEAD-FREE ELECTRICALLY CONDUCTIVE COMPOSITION FOR SOLAR CELL ELECTRODES		
1-2	Taiwan	99121030	1544496
	LEAD-FREE ELECTRICALLY CONDUCTIVE COMPOSITION FOR SOLAR CELL ELECTRODES		
1-3	United States of America	13/387,520	8778232
	LEAD-FREE CONDUCTIVE COMPOUND FOR SOLAR CELL ELECTRODES		

2-1	Japan	2009-217945	5137923
	PASTE COMPOSITION FOR SOLAR BATTERY ELECTRODE		
2-2	Taiwan	99130646	1471282
	PASTE COMPOSITION FOR SOLAR BATTERY ELECTRODE		
2-3	China	201080041275.X	ZL201080041275.X; CN102498524.B
	PASTE COMPOSITION FOR SOLAR BATTERY ELECTRODE		
2-4	United States of America	13/395,814	8889039
	PASTE COMPOSITION FOR SOLAR BATTERY ELECTRODE		
3-1	Japan	2013-536024	5856178
	LEAD-FREE CONDUCTIVE PASTE COMPOSITION FOR SOLAR CELLS		
	Taiwan	101129358	1543955
3-2	LEAD-FREE ELECTRICALLY CONDUCTIVE COMPOSITION FOR SOLAR CELL ELECTRODES		
	China	201280047886.4	ZL201280047886.4
3-3	LEAD-FREE ELECTRICALLY CONDUCTIVE COMPOSITION FOR SOLAR CELL ELECTRODES		
	Germany	112012004085.6	—
3-4	LEAD-FREE ELECTRICALLY CONDUCTIVE COMPOSITION FOR SOLAR CELL ELECTRODES		

- hereinafter referred to as "Patents" —.


Noritake hereby assigns and transfers to Heraeus 100% of the ownership in the Patents and Heraeus accepts such assignment and transfer of ownership.

Conshohocken, this .....

Heraeus Precious Metals North  
America Conshohocken LLC

Nagoya, this .....

Noritake Co., Limited

  
Weiming Zhang

  
Akira Nagata