501819637 02/14/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sabine SCHNEIDER-BETZ	12/06/2011
Martin SCHLOTT	12/05/2011

RECEIVING PARTY DATA

Name:	Heraeus Materials Technology GmbH & Co. KG
Street Address:	Heraeusstrasse 12-14
City:	Hanau
State/Country:	GERMANY
Postal Code:	63450

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13390388

CORRESPONDENCE DATA

 Fax Number:
 (215)965-1331

 Phone:
 215-965-1347

Email: sneumann@panitchlaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Correspondent Name: Sheryl Neumann (920-88US)

Address Line 1: PANITCH SCHWARZE BELISARIO & NADEL LLP

Address Line 2: 2005 Market Street, Suite 2200

Address Line 4: Philadelphia, PENNSYLVANIA 19103-7013

ATTORNEY DOCKET NUMBER:	200920.0088

NAME OF SUBMITTER: Sheryl R. Neumann

Total Attachments: 2 source=00383456#page1.tif source=00383456#page2.tif

> PATENT REEL: 027700 FRAME: 0686

CH \$40.00 1339(

ASSIGNMENT (PATENT APPLICATION)

WHEREAS, we, ("ASSIGN	ORS"):	
<u>Inventor</u>	Citizenship	Address
Sabine SCHNEIDER-BETZ	German	Oisterwijkerstr. 51 63303 Dreieich, Germany
Martin SCHLOTT	German	Scharfensteiner Str. 33 63075 Offenbach, Germany

having invented a certain new and useful invention entitled:

THIN FILM TRANSISTOR (TFT) HAVING COPPER ELECTRODES

for which a United States patent ap	plication is to be file	d or has been filed on	February 14, 2012
under U.S. Patent Application No.	13/390,388	; and	

WHEREAS, ("ASSIGNEE"):

Heraeus Materials Technology GmbH & Co. KG (A German Corporation)
Heraeusstrasse 12-14
63450 Hanau, Germany

is desirous of acquiring the entire right, title and interest in and to the invention throughout the United States and the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all countries throughout the world;

FOR GOOD and VALUABLE CONSIDERATION, the full receipt and sufficiency of which are hereby acknowledged, ASSIGNORS, intending to be legally bound, do hereby:

AUTHORIZE said ASSIGNEE, or its representatives to insert above the filing date and application number of the application when these are known;

SELL, ASSIGN, TRANSFER and CONVEY to ASSIGNEE the whole and entire right, title and

1

PATENT REEL: 027700 FRAME: 0687 interest for the United States and its possessions and territories and all foreign countries in and to the invention which is disclosed in the above-identified patent application, and, in and to any and all patent applications related thereto including, but not limited to, all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues and all other applications for patent which have been or shall be filed in the United States and all foreign countries on the invention; all original, reissued and reexamined patents and extensions thereof which have been or shall be issued in the United States and all foreign countries on the invention to the full end of the term or terms for which the patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR(S) had this Assignment not been made; and specifically including all rights of priority created by the above patent application under any treaty, convention or law relating thereto;

AUTHORIZE and REQUEST the issuing authority to issue any and all United States and foreign patents granted on the invention to ASSIGNEE;

WARRANT and REPRESENT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by ASSIGNORS, and that the full right to convey the same as herein expressed is possessed by ASSIGNORS;

AGREE and UNDERTAKE, when requested and at the expense of ASSIGNEE, to carry out in good faith the intent and purpose of this Assignment, ASSIGNORS will execute all non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues, and all other patent applications on the invention; execute all lawful oaths, declarations, assignments, powers of attorney and other papers; communicate to ASSIGNEE all facts known to ASSIGNORS relating to the invention and the history thereof; and generally do everything possible which ASSIGNEE shall consider desirable for vesting title to the invention in ASSIGNEE, and for securing, maintaining and enforcing proper patent protection for the invention; all without further compensation to ASSIGNORS;

TO BE BINDING on the heirs, assigns, representatives and successors of ASSIGNORS and extending to the successors, assigns, and nominees of ASSIGNEE.

2011/12/66	S. Schrido BA	
Date	Sabine SCHNEIDER-BETZ	
2011/12/05	hardin Schlist	
Date	Martin SCHLOTT	