

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4951261

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN G. DARAB	04/04/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MAGNESIUM ELEKTRON LIMITED
<b>Street Address:</b>	LUMNS LANE
<b>City:</b>	MANCHESTER
<b>State/Country:</b>	UNITED KINGDOM
<b>Postal Code:</b>	M27 8LN
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15945770
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<b>ATTORNEY DOCKET NUMBER:</b>	MURG4-60054US0
<b>NAME OF SUBMITTER:</b>	PAUL A. SERBINOWSKI
<b>SIGNATURE:</b>	/Paul A. Serbinowski/
<b>DATE SIGNED:</b>	05/08/2018
<b>Total Attachments: 3</b>	
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source=MURG4-60054US0_SIGNED-Assignment-Darab-to-Mag-Elek#page2.tif	
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US- United States  
GB- Great Britain

ASSIGNMENT  
FOR UTILITY PATENT APPLICATION

Attorney Docket No.: MURG4-60054US0

I hereby declare that:

this assignment is directed to the attached application entitled:

**ZIRCONIA-BASED MIXED OR COMPOSITE OXIDES AS PASSIVE NOX  
ADSORBENTS**

filed on (YYYY/MM/DD) 2018-04-05 as United States Application Number  
15/945,770 ;  
filed on (YYYY/MM/DD) \_\_\_\_\_ as Great Britain Application Number  
\_\_\_\_\_.

WHEREAS, new and useful improvements have been made by the undersigned inventor (hereinafter referred to as "assignor") as described in the above-identified application.

WHEREAS, Magnesium Elektron Limited of Lumns Lane, Manchester, M27 8LN, UK, hereinafter referred to as "assignee," is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States, Great Britain and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States and in Great Britain, all divisions, continuations-in-part and continuations thereof, all patents which may be granted thereon, all reissued patents, reexamination certificates, post grant review certificates, inter partes review certificates, covered business method review certificates and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States and Great Britain, or by other authority, entity, or organization, all applications therefor, and all rights of priority resulting from the filing of said application, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned assignor; and it is covenanted and agreed by the undersigned assignor, and for executors, administrators, and legal representatives of the undersigned assignor, that at assignee's request and without further consideration the undersigned assignor will communicate to the assignee or its representatives or nominees any facts known to the undersigned assignor respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths and

declarations, sign all lawful papers and execute and deliver all applications, affidavits, assignments and other instruments or documents as may be necessary or desirable for the making and prosecution of any of the applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation or interference proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, interference, covered business method patent review, post grant review, reissue, reexamination, inter partes review, or extension thereof, and generally do everything as may be necessary or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of other countries including Great Britain are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grant the firms of Abel Law Group, LLP and Murgitroyd 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 and the Patent Office of Great Britain for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

Legal Name of Inventor (assignor): John G. DARAB

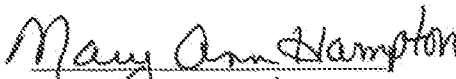
Signature of Inventor:



Date:

4-APRIL 2018

Witness:



Witness:



Magnesium Elektron Limited (assignee)

By: Name of representative: CLAIRE SWARBELCK

Signature of representative: 

Date: 3<sup>rd</sup> April 2018

Witness: ATTORNEY

Witness: 5<sup>th</sup> April 2018 D J HARRIS