506362864 11/19/2020

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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEXANDER JOEY NIKOLAOS DAYKIN-ILIOPOULOS	11/12/2020
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17054248

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SIGNATURE:	/Therese A. Hendricks/
DATE SIGNED:	11/19/2020

Total Attachments: 2

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> **PATENT REEL: 054416 FRAME: 0740** 506362864

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

Hollow Cathode Apparatus

as disclosed in US Serial No. 17/054,248 filed November 10, 2020, a national stage application of PCT/EP2019/062069.

WHEREAS, University of Southampton, University Road, Highfield, Southampton, United Kingdom SO17 1BJ (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention from the Assignor(s) listed below in all countries throughout the world, and in and to all patent applications on this invention and all patents to be issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that for and in consideration of good and valuable consideration the receipt of which is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, and all US patent applications filed on such invention, and all divisional, continuation, and continuation-in-part applications thereof, and all patents of the United States which may be granted thereon, and all reissues. Extensions, renewals and revivals thereof, as well as all rights to claim priority on the basis of such applications, and all applications for patents which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, revivals and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United Sates and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, assist in the filing and prosecution of patent applications, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect such patents and patent applications and title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, continuation-in-part, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and in all countries throughout the world.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

Alexander Joey Nikolaos Daykin-Iliopoulos Univ. of Southampton, University Road Highfield, Southampton Great Britain, United Kingdom SO17 1BJ

Signature: A Iliopulos

Date: 12-11-2020

Stephen Bernard Gabriel Univ. of Southampton, University Road Highfield, Southampton Great Britain, United Kingdom SO17 1BJ

Signature: Safa 15 Junio

Date: 15/11/2020

Igor Golosnoy Univ. of Southampton, University Road Highfield, Southampton Great Britain, United Kingdom SO17 1BJ

Signature:

Date: 12-11-2020

PATENT REEL: 054416 FRAME: 0742

RECORDED: 11/19/2020