

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6566746

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | ATIKEM HAILE-MARIAM | 03/05/2017 |
| | RAVINDRA K. VORA | 02/28/2017 |
| | GERALD J. MEIER | 02/28/2017 |
| | BRET MATZ | 03/08/2017 |
| | BENOY SARASAN | 01/12/2017 |
| | BIJI MATHEW ARAKKAKUDY | 01/12/2017 |
| | ANOO MURALI | 01/12/2017 |
| | BINOY PUTHUSSERY | 01/12/2017 |
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| State/Country: | IRELAND | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 17183052 |
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| SIGNATURE: | /karl hicks/ | |
| DATE SIGNED: | 02/23/2021 | |

PATENT

Total Attachments: 3

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: Atikem HAILE-MARIAM, Ravindra K. VORA, Gerald J. MEIER, Bret MATZ, Benoy SARASAN, Biji Mathew ARAKKAKUDY, Anoop MURALI and Binoy PUTHUSSERY, hereby sell and assign to Opterna Technology Limited, a corporation formed under the laws of IRELAND, whose mailing address is National Technology Park, Limerick, IRELAND (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as **FIBER OPTIC CABLE DEPLOYMENT ASSEMBLIES, SYSTEMS, AND METHODS** for which a provisional application for patent in the United States of America was filed on April 4, 2016 (also known as United States Application No. 62/318,045), in any and all non-provisional applications therefrom, in any and all Letters Patent(s) granted from such non-provisional applications, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate

assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

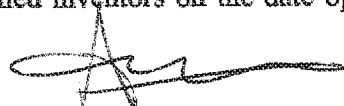
The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant the patent practitioners associated with **CUSTOMER NUMBER 26111** the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

The undersigned inventors hereby represent that he/she understands that the patent practitioners associated with **CUSTOMER NUMBER 26111** are the legal representatives of, and attorneys for, the assignee, and are NOT the legal representatives of, and attorneys for, the inventors.

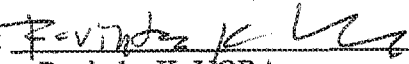
IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: 5, March, 2017

Signature of Inventor: 

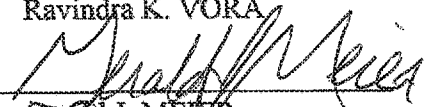
Atikem HAILE-MARIAM

Date: 28 Feb, 2017

Signature of Inventor: 

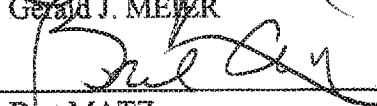
Ravindra K. VORA

Date: 28 FEB 2017

Signature of Inventor: 

Gerald J. MEIER

Date: 8 March 2017

Signature of Inventor: 

Biet MATZ

Date: 12th Jan 2017

Signature of Inventor: 

Benoy SABASAN

Date: 12th Jan 2017

Signature of Inventor: 

Biji Mathew ARAKKAKUDY

Date: 12th Jan 2017

Signature of Inventor: _____

Anoop MURALI

Date: 12th Jan 2017

Signature of Inventor: _____

Binoy PUTHUSSERY

SIGNED on behalf of the said ASSIGNEE,

OPTERNA TECHNOLOGY LIMITED

By: _____

Name: _____

SATU THOMAS

Title: _____

CFO

Date: _____

03/09/2017.

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