

| |
|--------------------------------------|
| PATENT ASSIGNMENT COVER SHEET |
|--------------------------------------|

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4170726

| | |
|------------------------------|----------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| JUGANU LTD. | 10/28/2016 |

RECEIVING PARTY DATA

| | |
|------------------------|---|
| Name: | OREE ADVANCED ILLUMINATION SOLUTIONS LTD. |
| Street Address: | 16 HAMELACHA STREET |
| City: | ROSH HAAIN |
| State/Country: | ISRAEL |
| Postal Code: | 4809139 |

PROPERTY NUMBERS Total: 34

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14409195 |
| Application Number: | 14691816 |
| Application Number: | 14849933 |
| Application Number: | 15269231 |
| Patent Number: | 7570846 |
| Patent Number: | 7639916 |
| Patent Number: | 7826698 |
| Patent Number: | 7907804 |
| Patent Number: | 7929816 |
| Patent Number: | 8064743 |
| Patent Number: | 8128272 |
| Patent Number: | 8172447 |
| Patent Number: | 8182128 |
| Patent Number: | 8215815 |
| Patent Number: | 8231237 |
| Patent Number: | 8238703 |
| Patent Number: | 8272758 |
| Patent Number: | 8297786 |
| Patent Number: | 8301002 |
| Patent Number: | 8328406 |

PATENT

| Property Type | Number |
|----------------|---------|
| Patent Number: | 8358896 |
| Patent Number: | 8414174 |
| Patent Number: | 8459856 |
| Patent Number: | 8542964 |
| Patent Number: | 8550684 |
| Patent Number: | 8579466 |
| Patent Number: | 8591072 |
| Patent Number: | 8624527 |
| Patent Number: | 8641254 |
| Patent Number: | 8727597 |
| Patent Number: | 8840276 |
| Patent Number: | 8851712 |
| Patent Number: | 9039244 |
| Patent Number: | 9164218 |

CORRESPONDENCE DATA

Fax Number: (202)739-3001

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.

Phone: 202-739-3000

Email: patents@morganlewis.com, rgoodwin@morganlewis.com,
matthew.currie@morganlewis.com,
amanda.mcintyre@morganlewis.com

Correspondent Name: MORGAN, LEWIS, & BOCKIUS LLP (B0)

Address Line 1: 1111 PENNSYLVANIA AVENUE, NW

Address Line 4: WASHINGTON, D.C. 20004-2541

| | |
|--------------------------------|---------------------|
| ATTORNEY DOCKET NUMBER: | ORE |
| NAME OF SUBMITTER: | MATTHEW T. CURRIE |
| SIGNATURE: | /Matthew T. Currie/ |
| DATE SIGNED: | 12/06/2016 |

Total Attachments: 5

source=Assignment_2#page1.tif

source=Assignment_2#page2.tif

source=Assignment_2#page3.tif

source=Assignment_2#page4.tif

source=Assignment_2#page5.tif

ASSIGNMENT

Whereas JUGANU LTD. ("Assignor"), whose principal place of business is 16 Hamelacha St., Rosh Haain 4809139, Israel, is the owner by assignment of certain inventions or discoveries (or both) set forth in the pending patent applications listed on the attached Schedule A and the granted patents listed on the attached Schedule B; and

Whereas OREE ADVANCED ILLUMINATION SOLUTIONS LTD. ("Assignee"), whose address 16 Hamelacha St., Rosh Haain 4809139, Israel, is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor hereby, without reservation:

1. Assigns, transfers and conveys to Assignee the entire right, title and interest in and to said inventions and discoveries, said pending patent applications and granted patents, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all provisional, divisional, renewal, substitute, continuation, continuation-in-part, and International Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all patents, reissues, reexaminations, and extensions of patents granted for said inventions and discoveries or based upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said granted patents, including, without limitation, the right to sue and recover for past infringement;

2. Authorizes Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in the Assignor's name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorizes and requests the Commissioner for Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent and applications therefor to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct; and

4. Warrants that it has not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that it has good right to assign the same Assignee without encumbrance.

In testimony of which this Assignment has been executed as an instrument under seal on the date indicated below.

JUGANU LTD.

10/28/16
Date

By: Eran Ben Shur
Title: CEO

SCHEDULE A

JUGANU LTD. - Pending Applications

| Application No. | Title | Atty. Docket No. |
|------------------------|---|-------------------------|
| 14/409,195 | PLANAR REMOTE PHOSPHOR ILLUMINATION APPARATUS | ORE-020 |
| 14/691,816 | ILLUMINATION APPARATUS CONFINING LIGHT BY TOTAL INTERNAL REFLECTION AND METHODS OF FORMING THE SAME | ORE-016C3 |
| 14/849,933 | SLIM WAVEGUIDE COUPLING APPARATUS AND METHOD | ORE-005CPC3 |
| 15/269,231 | SLIM WAVEGUIDE COUPLING APPARATUS AND METHOD | ORE-005CPC4 |

SCHEDULE B

JUGANU LTD. - Granted Patents

| Patent No. | Title | Atty. Docket No. |
|-------------------|---|-------------------------|
| 7,570,846 | High efficacy waveguide coupler | |
| 7,639,916 | Flexible optical device | |
| 7,826,698 | Elimination of stitch artifacts in a planar illumination area | ORE-003CC1 |
| 7,907,804 | Elimination of stitch artifacts in a planar illumination area | ORE-003C |
| 7,929,816 | Waveguide sheet containing in-coupling, propagation, and out-coupling regions | ORE-004C |
| 8,064,743 | Discrete light guide-based planar illumination area | ORE-003CC2 |
| 8,128,272 | Illumination apparatus | ORE-010 |
| 8,172,447 | Discrete lighting elements and planar assembly thereof | ORE-003A |
| 8,182,128 | Planar white illumination apparatus | ORE-004B |
| 8,215,815 | Illumination apparatus and methods of forming the same | ORE-010CP |
| 8,231,237 | Sub-assembly and methods for forming the same | ORE-001A |
| 8,238,703 | Waveguide sheet containing in-coupling, propagation, and out-coupling regions | ORE-004CC1 |
| 8,272,758 | Illumination apparatus and methods of forming the same | ORE-010CP2 |
| 8,297,786 | Slim waveguide coupling apparatus and method | ORE-005CP |
| 8,301,002 | Slim waveguide coupling apparatus and method | ORE-005 |
| 8,328,406 | Low-profile illumination device | ORE-009A |
| 8,358,896 | Flexible optical device | |
| 8,414,174 | Illumination apparatus | ORE-010C1 |
| 8,459,856 | Planar white illumination apparatus | ORE-004BC1 |
| 8,542,964 | Waveguide sheet containing in-coupling, propagation, and out-coupling regions | ORE-004CC2 |
| 8,550,684 | Waveguide-based packaging structures | ORE-003B |

| Patent No. | Title | Atty. Docket No. |
|------------|---|------------------|
| | and methods for discrete lighting elements | |
| 8,579,466 | Illumination apparatus and methods of forming the same | ORE-010CP2C1 |
| 8,591,072 | Illumination apparatus confining light by total internal reflection and methods of forming the same | ORE-016 |
| 8,624,527 | Independently controllable illumination device | ORE-013 |
| 8,641,254 | Illumination apparatus | ORE-010C2 |
| 8,727,597 | Illumination apparatus with high conversion efficiency and methods of forming the same | ORE-015 |
| 8,840,276 | Illumination apparatus confining light by total internal reflection and methods of forming the same | ORE-016C1 |
| 8,851,712 | Slim waveguide coupling apparatus and method | ORE-005CPC1 |
| 9,039,244 | Illumination apparatus confining light by total internal reflection and methods of forming the same | ORE-016C2 |
| 9,164,218 | Slim waveguide coupling apparatus and method | ORE-005CPC2 |