

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5665268

|                              |                |
|------------------------------|----------------|
| <b>SUBMISSION TYPE:</b>      | NEW ASSIGNMENT |
| <b>NATURE OF CONVEYANCE:</b> | MERGER         |
| <b>EFFECTIVE DATE:</b>       | 05/20/2019     |
| <b>SEQUENCE:</b>             | 2              |

## CONVEYING PARTY DATA

| Name                   | Execution Date |
|------------------------|----------------|
| ONCE INNOVATIONS, INC. | 07/23/2019     |

## RECEIVING PARTY DATA

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Name:</b>           | SIGNIFY NORTH AMERICA CORPORATION |
| <b>Street Address:</b> | 200 FRANKLIN SQUARE DRIVE         |
| <b>City:</b>           | SOMERSET                          |
| <b>State/Country:</b>  | NEW JERSEY                        |
| <b>Postal Code:</b>    | 08873                             |

## PROPERTY NUMBERS Total: 20

| Property Type       | Number   |
|---------------------|----------|
| Patent Number:      | 9700019  |
| Patent Number:      | 8643308  |
| Patent Number:      | 8373363  |
| Patent Number:      | 8531136  |
| Patent Number:      | 8324642  |
| Patent Number:      | 8593044  |
| Patent Number:      | 8596804  |
| Patent Number:      | 8651691  |
| Patent Number:      | 8863435  |
| Patent Number:      | 9756837  |
| Patent Number:      | 9696011  |
| Patent Number:      | 9433046  |
| Patent Number:      | 9374985  |
| Patent Number:      | 9433194  |
| Application Number: | 14103798 |
| Application Number: | 14992935 |
| Application Number: | 15052021 |
| Application Number: | 15052030 |

PATENT

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14877881 |
| Application Number: | 14696267 |

  

**CORRESPONDENCE DATA**

**Fax Number:**

*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.*

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**Address Line 1:** 15255 23RD AVENUE N

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|                                |                  |
|--------------------------------|------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | ONCE/MWE         |
| <b>NAME OF SUBMITTER:</b>      | LAURIE JOHNSON   |
| <b>SIGNATURE:</b>              | /Laurie Johnson/ |
| <b>DATE SIGNED:</b>            | 08/13/2019       |

**Total Attachments: 2**

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### Patent Assignment

This Deed of Assignment, dated and effective July 23, 2019, is made by and between Once Innovations, Inc. ("Assignor"), a Minnesota corporation, and its parent corporation, Signify North America Corporation ("Assignee"), a Delaware corporation.

WHEREAS, Assignor is the sole owner of the intellectual property rights set forth on Schedule A hereto, including patents, patent applications, any and all continuations, divisionals, renewals, substitutes, re-examinations or reissue applications of the patents and patent applications, and all rights of priority to the same (together, the "Assigned Intellectual Property");

WHEREAS, Assignor and Assignee were parties to a Merger Agreement through which Assignee acquired a one-hundred percent interest in, and ownership of, Assignor;

WHEREAS, the Parties desire that the assignment of the Assigned Intellectual Property be made a matter of record in the appropriate patent offices, including the United States Patent & Trademark Office.

NOW THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, Assignor hereby confirms the sale, assignment and transfer to Assignee of all Assignor's worldwide right, title, and interest in and to the Assigned Intellectual Property.

IN WITNESS WHEREOF, Assignor executes this Assignment and is made effective as of the date below, or the latter of the two dates if different, and may be executed in counterparts. The person who signs this Assignment below represents that such person is fully authorized to sign the Assignment on behalf of Assignor.

Once Innovations, Inc.

Signature:

Name: P.D. Verweij

Title: Authorized Representative

Date: July 23, 2019

Signify North America Corporation

Signature:

Name: P.D. Verweij

Title: Authorized Representative

Date: July 23, 2019

# Exhibit A

| Title   | Application number | Grant number |
|---|--------------------|--------------|
| LED Lighting for Livestock Development                                      | 12/916,313         | 9,700,019    |
| Spectral Shift Control for Dimmable AC LED Lighting                         | 12/824,215         | 8,643,308    |
| Reduction of Harmonic Distortion for LED Loads                              | 12/785,498         | 8,373,363    |
| Architecture for High Power Factor and Low Harmonic Distortion LED Lighting | 12/914,575         | 8,531,136    |
| Light Emitting Diode Assembly and Methods                                   | 12/705,408         | 8,324,642    |
| Modular Architecture for Sealed LED Light Engines                           | 13/011,927         | 8,593,044    |
| Light Sources Adapted to Spectral Sensitivity of Diurnal Avians and Humans  | 13/050,910         | 8,596,804    |
| Integral Conduit Modular Lighting   | 13/077,955         | 8,651,691    |
| Architecture for Symbiotic Livestock and Biofuel Production                 | 13/389,807         | 8,863,435    |
| Differential Illumination to Select Egg Laying Sites                        | 13/357,330         | 9,756,837    |
| Long Persistent Light Sources   | 13/452,332         | 9,696,011    |
| Driving Circuitry for LED Lighting with Reduced Total Harmonic Distortion   | 13/355,182         | 9,433,046    |
| Light Emitting System with Adjustable Watt Equivalence                      | 13/715,884         | 9,374,985    |
| Aquaculture Lighting Devices and Methods                                    | 13/715,904         | 9,433,194    |
| Method of Controlling Sex of Oviparous Embryos Using Light Sources          | 14/103,798         |              |
| Method of Controlling Sex of Oviparous Embryos Using Light Sources          | 14/992,935         |              |
| Method of Controlling Sex of Oviparous Embryos Using Light Sources          | 15/052,021         |              |
| Method of Controlling Sex of Oviparous Embryos Using Light Sources          | 15/052,030         |              |
| Method of Controlling Sex of Oviparous Embryos Using Light Sources          | 14/877,881         |              |
| Methods of Controlling Sex of Oviparous Embryos Using Light Sources         | 14/696,267         |              |