

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4397395

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MASON E. SHEFFIELD	04/25/2017
OLEG ALEXANDER	04/05/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LOWE'S COMPANIES, INC.
<b>Street Address:</b>	1000 LOWE'S BOULEVARD
<b>City:</b>	MOORESVILLE
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	28117
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15586207
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Email:</b>	nvillanueva@kilpatricktownsend.com
<b>Correspondent Name:</b>	KILPATRICK TOWNSEND & STOCKTON LLP
<b>Address Line 1:</b>	1420 FIFTH AVENUE
<b>Address Line 2:</b>	SUITE 3700
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98101
<b>ATTORNEY DOCKET NUMBER:</b>	008530-1042685 (000110US)
<b>NAME OF SUBMITTER:</b>	NICOLE VILLANUEVA
<b>SIGNATURE:</b>	/Nicole Villanueva/
<b>DATE SIGNED:</b>	05/03/2017
<b>Total Attachments: 6</b>	
source=008530-1042685 Assignment - M. Sheffield (executed)#page1.tif	
source=008530-1042685 Assignment - M. Sheffield (executed)#page2.tif	
source=008530-1042685 Assignment - M. Sheffield (executed)#page3.tif	
source=008530-1042685 Assignment - O. Alexander (executed)#page1.tif	
source=008530-1042685 Assignment - O. Alexander (executed)#page2.tif	



## ASSIGNMENT OF PATENT APPLICATION

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned,

Mason E. Sheffield, 1000 Lowe's Boulevard, Mooresville, NC 28117  
(Name/Address)

("the Inventors" or "the Assignors") do hereby sell, assign, and transfer to Lowe's Companies, Inc., a North Carolina corporation, having a place of business at 1000 Lowe's Boulevard, Mooresville, NC 28117 ("the Assignee"), and the Assignee's successors and assigns, all right, title, and interest for all countries in and to the United States patent application entitled

### AUTOMATED MATRIX PHOTO FRAMING USING RANGE CAMERA INPUT

filed Herewith (referred to as "the Application"), and in and to any and all inventions disclosed in the Application ("the Inventions") and all nonprovisional applications for United States Patent, including divisional, continuing, substitute, renewal, and reissue thereof, and all other applications for United States Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on one or more of the Inventions, and in and to all original and reissued patents or related foreign documents that have been or shall be issued on one or more of the Inventions.

We, the Assignors, in accordance with this assignment, authorize and request the Commissioner for Patents of the United States to issue to the Assignee or the Assignee's successors and assigns, in accordance with this assignment, any and all United States Letters Patents that claim or disclose one or more of the Inventions.

We, the Assignors, further agree, for good and valuable consideration, the receipt of which is hereby acknowledged, that the Assignee or the Assignee's successors and assigns may apply for and receive foreign Letters Patents or similar such rights and, in doing so, may make a claim of priority to the Application under the provisions of any bilateral or multilateral treaty or international agreement, including but not limited to, the International Convention of 1883 and later modifications thereof ("the Paris Convention"), the Patent Cooperation Treaty, the European Patent Convention, the Eurasian Patent Convention, the agreement(s) of the African Regional Intellectual Property Organization, the agreement(s) of the Organisation Africaine de la Propriete Intellectuelle, and the agreement(s) of the Cooperation Council for the Arab States of the Gulf; and that, when requested, without charge to the Assignee or the Assignee's successors and assigns, to carry out in good faith the intent and purpose of this assignment, the Inventors, or their executors or administrators, will, for the United States and any and all foreign countries: (i) execute any and all documents related to any application for patent in the United States or a foreign country, where such application discloses one or more of the Inventions; (ii) execute any and all oaths, declarations, assignments, confirmatory assignments, powers of attorney and other papers concerning one or more of the Inventions and any and all patent applications thereon, whether in the United States or a foreign country; and (iii) perform other such acts, at the request of the Assignee or the Assignee's successors and assigns, to obtain or maintain any and all patents or related property rights in the United States or any foreign country on one or more of the Inventions or any improvements thereto and to vest title thereto in the Assignee or the Assignee's successors and assigns.

*Assignment of Patent Application*  
*United States Patent Application Filed Herewith*  
*Page 1 of 3*

Further, we, the Assignors, agree that, without charge to the Assignee or the Assignee's successors and assigns, we will communicate to said Assignee or their representatives any facts known to us respecting said Inventions, and testify in any legal proceeding, execute all divisional, continuation, substitute, renewal, and reissue applications, and do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper protection for the Inventions in the United States and its territorial possessions and in any and all foreign countries.


The undersigned hereby grant the firm of Kilpatrick Townsend & Stockton LLP of 1001 West Fourth Street, Winston-Salem, North Carolina 27101-2400 the power to insert on this assignment any further identification, including the application number and filing date, which 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.

In testimony whereof, we, the Assignors, have signed our names below on the date indicated. By such signature, we, the Assignors, acknowledge that we are of sound mind and health, that we have read and understood all terms recited above, and that we are signing this of our own free will for the purposes stated herein.

**SIGNATURE IS ON THE FOLLOWING PAGE**

(Remainder of page intentionally left blank)

Attorney Docket No.: 008530-1042685 (000100US)  
Client Ref. No.:

  
\_\_\_\_\_  
Mason E. Sheffield  
4/25/17  
\_\_\_\_\_  
Date

State of WA  
County of King

On this 25<sup>th</sup> day of April, 2017, before me personally appeared **MASON E. SHEFFIELD**, to me known and known to me to be the individual described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

*Assignment of Patent Application  
United States Patent Application Filed Herewith  
Page 3 of 3*

69240914V.1

**PATENT**  
**REEL: 042233 FRAME: 0011**

## ASSIGNMENT OF PATENT APPLICATION

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned,

Oleg Alexander, 1000 Lowe's Boulevard, Mooresville, NC 28117  
(Name/Address)

("the Inventors" or "the Assignors") do hereby sell, assign, and transfer to Lowe's Companies, Inc., a North Carolina corporation, having a place of business at 1000 Lowe's Boulevard, Mooresville, NC 28117 ("the Assignee"), and the Assignee's successors and assigns, all right, title, and interest for all countries in and to the United States patent application entitled

### AUTOMATED MATRIX PHOTO FRAMING USING RANGE CAMERA INPUT

filed Herewith (referred to as "the Application"), and in and to any and all inventions disclosed in the Application ("the Inventions") and all nonprovisional applications for United States Patent, including divisional, continuing, substitute, renewal, and reissue thereof, and all other applications for United States Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on one or more of the Inventions, and in and to all original and reissued patents or related foreign documents that have been or shall be issued on one or more of the Inventions.

We, the Assignors, in accordance with this assignment, authorize and request the Commissioner for Patents of the United States to issue to the Assignee or the Assignee's successors and assigns, in accordance with this assignment, any and all United States Letters Patents that claim or disclose one or more of the Inventions.

We, the Assignors, further agree, for good and valuable consideration, the receipt of which is hereby acknowledged, that the Assignee or the Assignee's successors and assigns may apply for and receive foreign Letters Patents or similar such rights and, in doing so, may make a claim of priority to the Application under the provisions of any bilateral or multilateral treaty or international agreement, including but not limited to, the International Convention of 1883 and later modifications thereof ("the Paris Convention"), the Patent Cooperation Treaty, the European Patent Convention, the Eurasian Patent Convention, the agreement(s) of the African Regional Intellectual Property Organization, the agreement(s) of the Organisation Africaine de la Propriete Intellectuelle, and the agreement(s) of the Cooperation Council for the Arab States of the Gulf; and that, when requested, without charge to the Assignee or the Assignee's successors and assigns, to carry out in good faith the intent and purpose of this assignment, the Inventors, or their executors or administrators, will, for the United States and any and all foreign countries: (i) execute any and all documents related to any application for patent in the United States or a foreign country, where such application discloses one or more of the Inventions; (ii) execute any and all oaths, declarations, assignments, confirmatory assignments, powers of attorney and other papers concerning one or more of the Inventions and any and all patent applications thereon, whether in the United States or a foreign country; and (iii) perform other such acts, at the request of the Assignee or the Assignee's successors and assigns, to obtain or maintain any and all patents or related property rights in the United States or any foreign country on one or more of the Inventions or any improvements thereto and to vest title thereto in the Assignee or the Assignee's successors and assigns.

*Assignment of Patent Application*  
*United States Patent Application Filed Herewith*  
*Page 1 of 3*

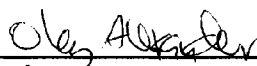
Further, we, the Assignors, agree that, without charge to the Assignee or the Assignee's successors and assigns, we will communicate to said Assignee or their representatives any facts known to us respecting said Inventions, and testify in any legal proceeding, execute all divisional, continuation, substitute, renewal, and reissue applications, and do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper protection for the Inventions in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant the firm of Kilpatrick Townsend & Stockton LLP of 1001 West Fourth Street, Winston-Salem, North Carolina 27101-2400 the power to insert on this assignment any further identification, including the application number and filing date, which 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.

In testimony whereof, we, the Assignors, have signed our names below on the date indicated. By such signature, we, the Assignors, acknowledge that we are of sound mind and health, that we have read and understood all terms recited above, and that we are signing this of our own free will for the purposes stated herein.

**SIGNATURE IS ON THE FOLLOWING PAGE**

(Remainder of page intentionally left blank)

  
\_\_\_\_\_  
**Oleg Alexander**  
\_\_\_\_\_  
April 5, 2017  
\_\_\_\_\_  
Date

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2017, before me personally appeared **OLEG ALEXANDER**, to me known and known to me to be the individual described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

*Assignment of Patent Application  
United States Patent Application Filed Herewith  
Page 3 of 3*

69260607V.1