To: The Director of the U.S. Patent and Trademark Office:

Please record the attached document(s) or the new address(es) below.

1. Name of conveying party(ies) | Execution Date(s):
AGUIRRE, Francis M. | October 8, 2004
BENSON, Peter T. | October 8, 2004
CRATON, Michele A. | October 8, 2004
HENDSON, Gordon D. | November 12, 2004
HOVELDT, David L. | October 8, 2004
LAI, Jack W. | October 8, 2004
MEIS, Michael A. | November 12, 2004
PHILLIPS, David L. | October 8, 2004

2. Name and address of receiving party(ies):
3M Innovative Properties Company
P.O. Box 33427
St. Paul, Minnesota 55133-3427

Additional name(s) of conveying party(ies) attached?  No

3. Nature of conveyance:
- Assignment
- Merger
- Security Agreement
- Change of Name
- Other: Correct Assignment To Correct Assignor On Reel 015309

4. Application or patent number(s)
   - This document is being filed together with a new application.
     10/869237

5. Name and address to whom correspondence concerning document should be mailed:
   Name: Rick L. Franzen
   Office of Intellectual Property Counsel
   3M Innovative Properties Company
   Phone Number: (651) 736-6432
   Fax Number: 651-736-3833
   32692
   Customer Number

6. Total number of applications and patents involved:

7. Total fee (37 CFR §§ 1.21(h) & 3.41): $40.00
   - Enclosed
   - Authorized to be charged to deposit account

8. Payment Information:
   Deposit Account Number: 13-3723
   Authorized User Name: Rick L. Franzen

9. Signature:
   
   Printed Name of Attorney/Agent:
   Rick L. Franzen
   Registration No.: 51,702
   
   Signature
   Date

Pages: Total number of pages including COVER SHEET, attachments, and documents 8

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5895, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT
REEL: 015888 FRAME: 0762
ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

LED MODIFYING APPARATUS AND METHOD

☐ for which an application for a United States Patent is being filed contemporaneously herewith;
☒ for which an application for a United States Patent identified as U.S. Patent Application No. 10/869237; was filed on June 16, 2004;
☐ which application is identified as PCT International Patent Application No. filed;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/we do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain and maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I/we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

<table>
<thead>
<tr>
<th>Given Name (first and middle [if any]): Francis M.</th>
<th>Family Name or Surname: AGUIRRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventor's Signature:</td>
<td>Date:</td>
</tr>
<tr>
<td>Residence:</td>
<td>Country: USA</td>
</tr>
<tr>
<td>St. Paul, Minnesota</td>
<td>Citizenship: United States of America</td>
</tr>
<tr>
<td>STATE OF MINNESOTA ) ss.</td>
<td>COUNTY OF RAMSEY )</td>
</tr>
</tbody>
</table>

On this ______ day of ____________________________, 2004, before me personally appeared the above-named Francis M. AGUIRRE, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)                                              Notary Public
<table>
<thead>
<tr>
<th>Given Name (first and middle [if any]):</th>
<th>Family Name or Surname:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter T.</td>
<td>BENSON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inventor's Signature:</th>
<th>Date:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Residence:</th>
<th>Country:</th>
<th>Citizenship:</th>
</tr>
</thead>
<tbody>
<tr>
<td>North St. Paul, Minnesota</td>
<td>USA</td>
<td>United States of America</td>
</tr>
</tbody>
</table>

STATE OF MINNESOTA ) ss.
COUNTY OF RAMSEY )

On this ___ day of __________, 2004, before me personally appeared the above-named Peter T. BENSON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)

Notary Public

<table>
<thead>
<tr>
<th>Given Name (first and middle [if any]):</th>
<th>Family Name or Surname:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michele A.</td>
<td>CRATON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inventor's Signature:</th>
<th>Date:</th>
</tr>
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<table>
<thead>
<tr>
<th>Residence:</th>
<th>Country:</th>
<th>Citizenship:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cottage Grove, Minnesota</td>
<td>USA</td>
<td>United States of America</td>
</tr>
</tbody>
</table>

STATE OF MINNESOTA ) ss.
COUNTY OF RAMSEY )

On this ___ day of __________, 2004, before me personally appeared the above-named Michele A. CRATON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)

Notary Public

<table>
<thead>
<tr>
<th>Given Name (first and middle [if any]):</th>
<th>Family Name or Surname:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gordon D.</td>
<td>HENSON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inventor's Signature:</th>
<th>Date:</th>
</tr>
</thead>
</table>

Residence:
Lake Elmo, Minnesota

<table>
<thead>
<tr>
<th>Residence:</th>
<th>Country:</th>
<th>Citizenship:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>USA</td>
<td>United States of America</td>
</tr>
</tbody>
</table>

STATE OF MINNESOTA ) ss.
COUNTY OF RAMSEY )

On this ___ day of November, 2004, before me personally appeared the above-named Gordon D. HENSON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)

KATHLEEN M SANDVIG
NOTARY PUBLIC - MINNESOTA

Notary Public

Assignment

Case No.: 50432US003

PATENT
REEL: 015888 FRAME: 0764
Given Name (first and middle [if any]): Dave L.
Family Name or Surname: HOFELEDT
Inventor's Signature: ________________________________
Date: ____________________
Residence: Oakdale, Minnesota
Country: USA
Citizenship: United States of America
STATE OF MINNESOTA } ss.
COUNTY OF RAMSEY } ss.
On this ______ day of ________________________, 2004, before me personally appeared the above-named Dave L. HOFELEDT, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal)
Notary Public

Given Name (first and middle [if any]): Jack W.
Family Name or Surname: LAI
Inventor's Signature: ________________________________
Date: ____________________
Residence: Lake Elmo, Minnesota
Country: USA
Citizenship: United States of America
STATE OF MINNESOTA } ss.
COUNTY OF RAMSEY } ss.
On this ______ day of ________________________, 2004, before me personally appeared the above-named Jack W. LAI, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal)
Notary Public

Given Name (first and middle [if any]): Michael A.
Family Name or Surname: MEIS
Inventor's Signature: ________________________________
Date: 11/12/04
Residence: Stillwater, Minnesota
Country: USA
Citizenship: United States of America
STATE OF MINNESOTA } ss.
COUNTY OF RAMSEY } ss.
On this 12th day of NOVEMBER, 2004, before me personally appeared the above-named Michael A. MEIS, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal)
KATHLEEN M SANDVIG
NOTARY PUBLIC - MINNESOTA
Kathleen M. Sandvig
Notary Public
<table>
<thead>
<tr>
<th>Given Name (first and middle [if any]):</th>
<th>Family Name or Surname:</th>
</tr>
</thead>
<tbody>
<tr>
<td>David L.</td>
<td>PHILLIPS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inventor's Signature:</th>
<th>Date:</th>
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<table>
<thead>
<tr>
<th>Residence:</th>
<th>Country:</th>
<th>Citizenship:</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Bear Lake, Minnesota</td>
<td>USA</td>
<td>United States of America</td>
</tr>
</tbody>
</table>

STATE OF MINNESOTA    
COUNTY OF RAMSEY    

On this ______ day of ______________________, 2004, before me personally appeared the above-named David L. PHILLIPS, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal) 

Notary Public
ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in:

LED MODIFYING APPARATUS AND METHOD

☐ for which an application for a United States Patent is being filed contemporaneously herewith;
☒ for which an application for a United States Patent identified as U.S. Patent Application No. 10/869237; was filed on June 16, 2004;
☐ which application is identified as PCT International Patent Application No. filed:

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors’ Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors’ Certificates in any and all countries; and

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

<table>
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<tr>
<th>Given Name (first and middle [if any]):</th>
<th>Family Name or Surname:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francis M.</td>
<td>AGUIRRE</td>
</tr>
</tbody>
</table>

Inventor’s Signature:  

Francis M. Aguirre

Date: 10.8.04

Residence:  

St. Paul, Minnesota

Country: USA

Citizenship: United States of America

STATE OF MINNESOTA  

COUNTY OF RAMSEY  

On this 8th day of October, 2004, before me personally appeared the above-named Francis M. AGUIRRE, and who executed the foregoing instrument, as said person’s free act and deed, on the day and year aforesaid.

(Seal)  

KATHLEEN M. RUNDQUIST  

Notary Public  

My Comm. Expires Jan. 31, 2005
Given Name (first and middle [if any]): Michele A.           Family Name or Surname: CRATON
Inventor's Signature: Michele A. CRATON
Residence: Cottage Grove, Minnesota        Date: 10-8-04
Country: USA                                      Citizenship: United States of America
STATE OF MINNESOTA )
COUNTY OF RAMSEY ) (ss.)
On this 8th day of October, 2004, before me personally appeared the above-named Michele A. CRATON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal) KATHLEEN M. SANDVIG
                                            Notary Public

Given Name (first and middle [if any]): Jack W.           Family Name or Surname: LAI
Inventor's Signature: Jack W. LAI
Residence: Lake Elmo, Minnesota        Date: 10/8/04
Country: USA                                      Citizenship: United States of America
STATE OF MINNESOTA )
COUNTY OF RAMSEY ) (ss.)
On this 8th day of October, 2004, before me personally appeared the above-named Jack W. LAI, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal) KATHLEEN M. SANDVIG
                                            Notary Public

Given Name (first and middle [if any]): David L.           Family Name or Surname: PHILLIPS
Inventor's Signature: David L. PHILLIPS
Residence: White Bear Lake, Minnesota        Date: 10/8/04
Country: USA                                      Citizenship: United States of America
STATE OF MINNESOTA )
COUNTY OF RAMSEY ) (ss.
On this 8th day of October, 2004, before me personally appeared the above-named David L. PHILLIPS, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal) KATHLEEN M. SANDVIG
                                            Notary Public

Assignment

Page 2 of 3

Case No.: 59432US903

PATENT
REEL: 015888 FRAME: 0768
Given Name (first and middle [if any]): Peter T.

Family Name or Surname: BENSON

Inventor's Signature: Peter T. BENSON

Date: 10-8-04

Residence: North St. Paul, Minnesota

Country: USA

Citizenship: United States of America

STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 8th day of October, 2004, before me personally appeared the above-named Peter T. BENSON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)

KATHLEEN M. SANDVIG
NOTARY PUBLIC - MINNESOTA

Kathleen M. Sandvig
Notary Public

Given Name (first and middle [if any]): Dave L.

Family Name or Surname: HOFELEDT

Inventor's Signature: Dave L. HOFELEDT

Date: 10-8-04

Residence: Oakdale, Minnesota

Country: USA

Citizenship: United States of America

STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 8th day of October, 2004, before me personally appeared the above-named Dave L. HOFELEDT, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)

KATHLEEN M. SANDVIG
NOTARY PUBLIC - MINNESOTA

Kathleen M. Sandvig
Notary Public
ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

[LED MODIFYING APPARATUS AND METHOD]

☐ for which an application for a United States Patent is being filed contemporaneously herewith;
☒ for which an application for a United States Patent identified as U.S. Patent Application No. 10/869237; was filed on June 18, 2004;
☐ which application is identified as PCT International Patent Application No. filed;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereof, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/we further agree for myself/myself and for my/my our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I/we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/my our name(s) on the day and year set forth below.

<table>
<thead>
<tr>
<th>Given Name (first and middle if any):</th>
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</thead>
<tbody>
<tr>
<td>Francis M.</td>
<td>AGUIRRE</td>
</tr>
</tbody>
</table>

Inventor's Signature: [Signature]

Date: 10/8/04

Residence: St. Paul, Minnesota

Country: USA

Citizenship: United States of America

STATE OF MINNESOTA

COUNTY OF RAMSEY

On this 8th day of October, 2004, before me personally appeared the above-named Francis M. AGUIRRE, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

[Seal]

KATHLEEN L. ANDWIG
NOTARY PUBLIC - MINNESOTA

Assignment:

Page 1 of 3

Case No.: 59432US005

PATENT

REEL: 015309 FRAME: 0591

PATENT

REEL: 015888 FRAME: 0770
Given Name (first and middle [if any]): Michele A.
Family Name or Surname: CRATON
Inventor's Signature: 
Date: 10-8-04
Residence: Cottage Grove, Minnesota
Country: USA
Citizenship: United States of America
STATE OF MINNESOTA ) ss.
COUNTY OF RAMSEY )

On this 8th day of October, 2004, before me personally appeared the above-named Michele A. CRATON, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal)
KATHLEEN M SANDVIG
NOTARY PUBLIC - MINNESOTA

Given Name (first and middle [if any]): Jack W.
Family Name or Surname: LAI
Inventor's Signature: 
Date: 10/8/04
Residence: Lake Elmo, Minnesota
Country: USA
Citizenship: United States of America
STATE OF MINNESOTA ) ss.
COUNTY OF RAMSEY )

On this 8th day of October, 2004, before me personally appeared the above-named Jack W. LAI, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal)
KATHLEEN M SANDVIG
NOTARY PUBLIC - MINNESOTA

Given Name (first and middle [if any]): David L.
Family Name or Surname: PHILLIPS
Inventor's Signature: 
Date: 10/8/04
Residence: White Bear Lake, Minnesota
Country: USA
Citizenship: United States of America
STATE OF MINNESOTA ) ss.
COUNTY OF RAMSEY )

On this 8th day of October, 2004, before me personally appeared the above-named David L. PHILLIPS, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.
(Seal)
KATHLEEN M SANDVIG
NOTARY PUBLIC - MINNESOTA
Given Name (first and middle if any):
Peter T.

Family Name or Surname:
Benson

Inventor's Signature:
Peter T. Benson

Date:
10-8-04

Residence:
North St. Paul, Minnesota

Country:
USA

Citizenship:
United States of America

STATE OF MINNESOTA)
COUNTY OF RAMSEY)

On this 8th day of October, 2004, before me personally appeared the above-named
Peter T. Benson, and who executed the foregoing instrument, as said person's free act and deed, on the day and year
aforesaid.

(Kathleen M. Sandvig)
Notary Public

Given Name (first and middle if any):
Dave L.

Family Name or Surname:
Hofeldt

Inventor's Signature:
Dave L. Hofeldt

Date:
10-8-04

Residence:
Oakdale, Minnesota

Country:
USA

Citizenship:
United States of America

STATE OF MINNESOTA)
COUNTY OF RAMSEY)

On this 8th day of October, 2004, before me personally appeared the above-named
Dave L. Hofeldt, and who executed the foregoing instrument, as said person's free act and deed, on the day and year
aforesaid.

(Kathleen M. Sandvig)
Notary Public