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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jeffrey D. Muhs John K. Jordan
Dennis D. Earl Randall F. Lind
David L. Beshears
Lonnie D. MaxeyAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: UT-Battelle, LLCInternal Address: P.O. Box 2008M.S. 6498Street Address: 111B Union Valley RoadCity: Oak Ridge State: TN Zip: 37831Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____Execution Date: 01/14/2004

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 10/633,027

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kirk A. WilsonInternal Address: P.O. Box 2008M.S. 6498Street Address: 111B Union Valley RoadCity: Oak Ridge State: TN Zip: 378316. Total number of applications and patents involved: ☐7. Total fee (37 CFR 3.41).....\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

13-1958

DO NOT USE THIS SPACE

9. Signature.

Kirk A. Wilson

Name of Person Signing

Signature

1/20/04

Date

Total number of pages including cover sheet, attachments, and documents: 8

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

02/02/2004 ECOOPER 00000120 131958 10633027

01 FC:8021

40.00 DA

PATENT
REEL: 014932 FRAME: 0533

ASSIGNMENT

WHEREAS, we the below-named inventors whose residence and post office are as stated below, have invented certain new and useful improvements in

Hybrid Solar Lighting Systems and Components

(hereinafter referred to as "Subject Invention") for which an application for United States Letters Patent was executed by us on even date herewith, and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at 111-B Union Valley Road, P. O. Box 2008, Oak Ridge, Tennessee 37831-6498, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, in accordance with the terms of our employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign to ASSIGNEE our entire right, title and interest in the Subject Invention to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the Subject Invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

Full name of inventor: Jeffrey D. Muhs

Signature: Jeffrey D. Muhs Date: 1/09/04

Residence: Lenoir City, Tennessee

Post Office Address: 4023 Hwy 70E, Lenoir City, Tennessee 37771

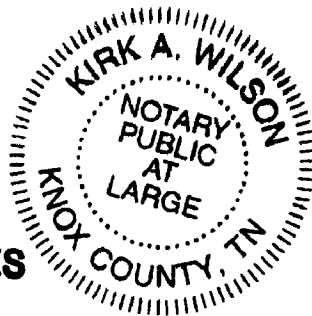
State of Tennessee)
County of)

On this 9th day of January, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Jeffrey D. Muhs to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Kirk A. Wilson
Notary Public

SEAL
My Commission Expires:



MY COMMISSION EXPIRES
MARCH 30, 2005

Full name of inventor: Dennis D. Earl

Signature: Dennis D. Earl Date: 01/09/04

Residence: Knoxville, Tennessee

Post Office Address: 913 View Harbour Road, Knoxville, Tennessee 37922

State of Tennessee)
County of)

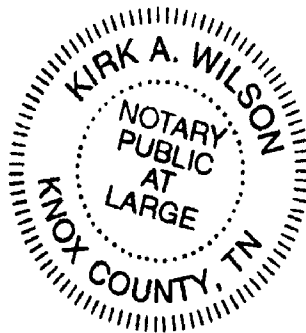
On this 01st day of January, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Dennis D. Earl to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Kirk A. Wilson
Notary Public

SEAL
My Commission Expires:

MY COMMISSION EXPIRES
MARCH 30, 2005



Full name of inventor: David L. Beshears

Signature: David Beshears Date: 1/09/04

Residence: Knoxville, Tennessee

Post Office Address: 723 Sunnydale Road, Knoxville, Tennessee 37923

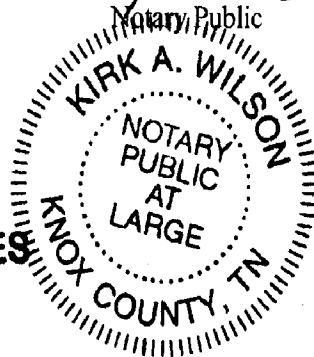
State of Tennessee)
County of Roane)

On this 9th day of January, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared David L. Beshears to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Kirk A. Wilson
Notary Public

SEAL
My Commission Expires:



MY COMMISSION EXPIRES
MARCH 30, 2005

Full name of inventor: Lonnie C. Maxey

Signature: Lonnie C. MaxeyDate: January 14, 2004

Residence: Powell, Tennessee

Post Office Address: 7907 Camberley Drive, Powell, Tennessee 37849

State of Tennessee)

County of ROANE)

On this 14th day of January, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Lonnie C. Maxey to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

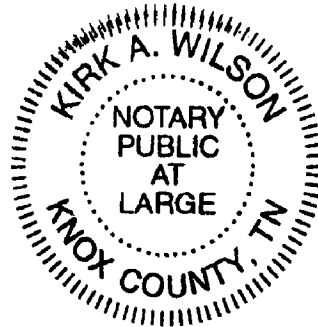
WITNESS my hand and seal the day and year last above given.

Kirk A. Wilson
Notary Public

SEAL

My Commission Expires:

MY COMMISSION EXPIRES
MARCH 30, 2005

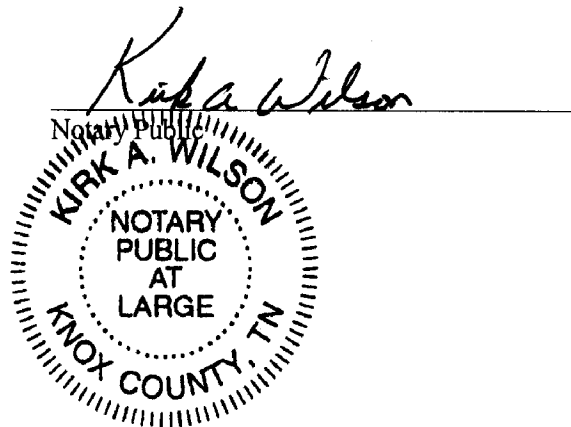


Full name of inventor: John K. Jordan
Signature: [Signature] Date: 1/14/04
Residence: Oak Ridge, Tennessee
Post Office Address: 103 Elliott Circle, Oak Ridge, Tennessee 37830

State of Tennessee)
County of Knox)

On this 14th day of January, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared John K. Jordan to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



SEAL
My Commission Expires:

**MY COMMISSION EXPIRES
MARCH 30, 2005**

Full name of inventor: Randall F. Lind

Signature: *Randall F. Lind*Date: 01/14/2004

Residence: Lenoir City, Tennessee

Post Office Address: 14297 Virtue Road, Lenoir City, Tennessee 37772

State of Tennessee)
County of)

On this 14th day of January, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Randall F. Lind to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Kirk A. Wilson
Notary Public

SEAL

My Commission Expires:

**MY COMMISSION EXPIRES
MARCH 30, 2005**

