504151551 12/22/2016

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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DOUGLAS A. THORNTON	04/04/2014
ERIC REHBERG	04/04/2014
LAUREN M. ADAMS	04/04/2014

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15388363

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ATTORNEY DOCKET NUMBER: BATZ 200073US02

NAME OF SUBMITTER: RICHARD M. KLEIN

SIGNATURE: / Richard M. Klein /

DATE SIGNED: 12/22/2016

Total Attachments: 4

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PATENT REEL: 040749 FRAME: 0063

Attorney Docket No.: BATZ 200073US01

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, the undersigned, **Douglas A. Thornton** of Columbus, Ohio, **Eric Rehberg** of Westerville, Ohio and **Lauren M. Adams** of Hilliard, Ohio ("Inventors") who have created a certain invention for which a U.S. Patent Application has been

	executed concurrently herewith
	executed on
\boxtimes	filed March 27, 2014, and assigned Application Serial No. 14/227,914

and is entitled

METHOD AND SYSTEM FOR USING DEMAND SIDE RESOURCES TO PROVIDE FREQUENCY REGULATION USING A DYNAMIC ALLOCATION OF ENERGY RESOURCES

hereby sell, assign and transfer to Battelle Memorial Institute, ("Assignee"), having a place of business at 505 King Avenue, Columbus, Ohio 43201, its successors. assigns, nominees or other legal representatives, the full, exclusive, entire worldwide rights, title and interest in, to, and under said invention as described and claimed in said application, including any provisional application(s) from which it claims priority, the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, nominees, or other legal representatives. to the end of the term or terms for which said Letters Patent are or may be granted. reissued, or extended, as fully and entirely as the same would have been held and enjoyed by Inventor(s) if this assignment and sale had not been made; all of the entire rights, title and interest in and to said invention and said application, and all original and reissued patents granted for said invention, and all divisions, reissues, continuations-inpart, and continuations of said application, including the subject matter of any and all claims which may be obtained in every patent, and the right, where such right can be legally exercised, in Assignee's own name to apply for and obtain patents in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention and the Patent Cooperation Treaty as fully and entirely as Inventor(s) could have done if the foreign application had been filed in the names of the Inventor(s), and the entire interest in any Letters Patent which may be granted on any such application in such foreign countries, and Inventor(s) authorize(s) and request(s) the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty is to issue patents on applications as aforesaid, to issue the said Letters Patent to Assignee, its successors, assigns, nominees, or other legal representatives, as Assignee and owner of the said entire rights, and Inventor(s) covenant(s) that Inventor(s) has/have the full right to convey the said entire interest herein assigned and that Inventor(s) has/have not executed and will not execute any agreement in conflict herewith, and Inventor(s) will communicate to Assignee, its successors, assigns, nominees, or other legal representatives all facts known to Inventor(s) respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and

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deliver all divisional, continuing, and reissue applications, make all rightful oaths or declarations, and do all lawful acts requisite for the application for such divisional, continuing, or reissue applications, or the procuring thereof, and that if and when Assignee, its successors, assigns, nominees, or other legal representatives desire to file a disclaimer relating thereto, Inventor(s) will, upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer; and

Inventor(s) further covenant(s) and agree(s) that Inventor(s) will, at any time upon request, do everything possible to aid Assignee, its successors, assigns, nominees, or other legal representatives, either in the name of Inventor(s) or Assignee, to apply for, obtain, and enforce proper patent protection for said invention in all countries, according to the International Convention and the Patent Cooperation Treaty, and all the laws and treaties in force, all without further consideration but at the expense of Assignee, its successors, assigns, nominees, or other legal representatives.

Signed at the City of Columbus, S	tate of Ohio on this <u></u>	day of A / 2014
	Hand A	de
	Douglas A. Thor	nton

State of Ohio)

(Sounty of Franklin)

County of Franklin)

On this $\frac{q^{fh}}{}$ day of $\frac{Apri}{}$, 2014 before me personally came Douglas A. Thornton, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Theresa M. Zombardi
Notary Public

Seal



Signed at the City of Columbus, State of Ohio on this day of, 2014.
Eric Rehberg
State of Ohio))ss:
County of Franklin)
On this 4^{+h} day of $Apcilo$, 2014 before me personally came Eric Rehberg, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.
Theresa M. Zombardi Notary Public
Seal Theresa M. Lombard Notary Public, State of Ohio My Commission Expires 01-13-2016

Attorney Docket No.: BATZ 200073US01

Signed at the City of Columbus, State of Ohio on this 4 day of April 2014.
La In Colo
Lauren M. Adams
State of Ohio))ss:
)ss: County of Franklin)
On this $\frac{q^{+h}}{q^{+h}}$ day of $\frac{hpri}{q^{+h}}$, 2014 before me personally came Lauren M. Adams, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.
Theun M. Zombardi Notary Public
Seal Theresa M. Lombardi Notary Public, State of Ohlo My Commission Expires 01-13-2016

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