505017217 07/24/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5063965

CONVEYING PARTY DATA

Name	Execution Date
BAJARANG L. AGRAWAL	07/17/2018
ERIC B. ELLIS	07/18/2018
DAVID G. MORTON	07/23/2018
JOHN E. PINHO	07/23/2018

RECEIVING PARTY DATA

Name:	ARIZONA PUBLIC SERVICE COMPANY	
Street Address:	ess: 400 NORTH 5TH STREET	
City:	PHOENIX	
State/Country:	ARIZONA	
Postal Code:	85004	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16040257

CORRESPONDENCE DATA

Fax Number: (480)994-9025

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.

Phone: 480-994-9888

Email: docketing@ngtechlaw.com THE NOBLITT GROUP, PLLC **Correspondent Name:**

8800 NORTH GAINEY CENTER DRIVE Address Line 1:

Address Line 2: **SUITE 279**

Address Line 4: SCOTTSDALE, ARIZONA 85258

ATTORNEY DOCKET NUMBER:	10610.4300
NAME OF SUBMITTER:	DANIEL J. NOBLITT
SIGNATURE:	/djn/
DATE SIGNED:	07/24/2018

Total Attachments: 6

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PATENT REEL: 046440 FRAME: 0574 505017217

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PATENT REEL: 046440 FRAME: 0575

ASSIGNMENT

This Patent Assignment ("Assignment") is made and entered into as of the date this Assignment is executed by ASSIGNOR below ("Effective Date"), and is from Bajarang L. Agrawal, Erik B. Ellis, David G. Morton, and John E. Pinho natural persons, having a place of business at at 400 North 5th Street, Phoenix, Arizona 85004, ("ASSIGNOR"), to Arizona Public Service Company having a place of business at 400 North 5th Street, Phoenix, Arizona 85004, ("ASSIGNEE"), where each of Assignor and Assignee may be referred to individually as a "Party" and collectively as the "Parties."

WHEREAS, ASSIGNOR is an inventor of Patent Application Number 16040257, filed July 19, 2018, entitled Methods and Apparatus for Power Generation and Distribution (the "Patent Application");

AND WHEREAS, ASSIGNEE is acquiring ownership of the worldwide right, title, and interest in and relating to the Patent Application, and the ASSIGNOR is transferring ownership of the Patent Application and the technology described therein to ASSIGNEE;

NOW, THEREFORE, the undersigned ASSIGNOR hereby confirms ASSIGNEE owns the invention as described in the Patent Application. Nonetheless, to comport with Patent and Trademark Office procedures, ASSIGNOR memorializes that transfer in the form of this assignment.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does irrevocably sell, assign, and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the ASSIGNOR's: (a) full and exclusive right to the invention as described in the Patent Application, in the United States and all foreign countries, together with any related applications or rights, including any PCT, provisional, nonprovisional, continuation, continuation-in-part, divisional, reissue, reexamination, or other patent application or like document or right, and any right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests that any patent issuing that claims priority to the Patent Application issue to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives; (b) all claims for damages by reason of past, present, or future infringement or other unauthorized use; and (c) the right to sue for damages and to collect the same.

AND HEREBY transfers a like interest to ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements developed by ASSIGNEE and applications for patents based thereon, growing out of or relating to the invention; and agrees to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns, and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

FURTHERMORE, This Assignment is be deemed to be made in and in all respects will be exclusively interpreted, construed, and governed by and in accordance with the laws of the State of Arizona, USA, without regard to the conflict-of-law principles thereof and will be subject to the exclusive jurisdiction of the State of Arizona, USA.

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The Parties may execute this Assignment in any number of counterparts. All such counterparts shall constitute one and the same instrument. Each of said counterparts will constitute an original of this Agreement.

IN WITNESS WHEREOF, this Assignment has been duly executed and delivered by the duly authorized officers of the Parties hereto as of the Effective Date.

ASSIGNOR: Bajarang L. Agrawal
SIGNATURE: Bay Aframal DATE: 7/17/2018
` .
STATE OF ART. ZDAIA)
STATE OF ARTZONA) SS. COUNTY OF MARICOPA)
On this 17th day of JULY, 2018, before me, a notary public in and for said
county, appeared Bajarang L. Agrawal, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and
delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.
(Seal) Notary Public
STEVEN P MURRAY Notary Public - Arizona
My Commission Expires February 27, 2020

ASSIGNOR: Erik B. Ellis
SIGNATURE: DATE: 7/18/418
STATE OF MARICOPA) COUNTY OF MARICOPA)
COUNTY OF MAKICEPA) SS.
On this day of the county, appeared Erik B. Ellis, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.
(Seal) Subject Notary Public
BARBARA J. DUBISHAR Notary Public - State of Artzona MARICOPA COUNTY My Commission Expires Dec. 12, 2018

ASSIGNOR: David G. Morton SIGNATURE: M. DATE: 7/23/18
STATE OF ARIZONA) SS. COUNTY OF WARGOPA)
COUNTY OF WHRICOPA)
On this 23 day of 0 day, 2018, before me, a notary public in and for said county, appeared David G. Morton, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.
(Seal) Notary Public
BARBARA J. DUBISHAR Notary Public - State of Arizona MARICOPA COUNTY My Commission Expires Dec. 12, 2018

ASSIGNOR: John E. Pinho	7
SIGNATURE:	DATE: 7/23/2018
STATE OF ANZIZONA)	
COUNTY OF MANUCOPA) ss.	
On this 23 day of July , 2018, county, appeared John E. Piñho, who is known to subscribed to the foregoing instrument, and he acking the said instrument as a free and voluntary act for the said instrument.	me to be the same person whose name is nowledges that he signed, scaled and delivered
(Seal)	Bala J. Dabise
BARBARA J. DUBISHAR Notary Public - State of Artzons MARICOPA COUNTY My Commission Expires Dec. 12, 2018	Notaty Public

ASSIGNEE: Arizona Public Service Company
SIGNATURE: Afg. Mr.
Name: Jeffrey B. Guldner
Title: Executive Vice President, Public Policy and General Counsel
Date Signed: 723/18
STATE OF ACIZONA
COUNTY OF MARICDEA) ss.
On this add day of July, 2018, before me, a notary public in and for said
county, appeared Jeffrey B. Guffiner, who is known to me to be the same person whose name is
subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered
the said instrument as a free and voluntary act for the uses and purposes therein set forth.
(Seal) Seal Seal Seal
OFFICIAL SEAL CYNTHIA M. CRAWFORD Notary Public - State of Arizona MARICOPA COUNTY My Corrern. Expires Mar. 21, 2022
183 Antices relative

RECORDED: 07/24/2018