

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6055942

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JOHN FRANCIS QUANCI | 02/20/2020 |
| GARY DEAN WEST | 02/20/2020 |
| DANIEL C. CHARLES | 02/20/2020 |
| RYAN L. YATES | 02/27/2020 |
| RECEIVING PARTY DATA | |
| Name: | SUNCOKE TECHNOLOGY AND DEVELOPMENT LLC |
| Street Address: | 1011 WARRENVILLE ROAD 6TH FLOOR |
| City: | LISLE |
| State/Country: | ILLINOIS |
| Postal Code: | 60532 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Application Number: | 16729170 |
| PCT Number: | US2019068823 |
| CORRESPONDENCE DATA | |
| Fax Number: | (206)359-7198 |
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| ATTORNEY DOCKET NUMBER: | 084553-8049.US01 & 8049WO |
| NAME OF SUBMITTER: | TORI ASHFORD-DOWNING |
| SIGNATURE: | /Tori Ashford-Downing/ |
| DATE SIGNED: | 04/10/2020 |
| Total Attachments: 7 | |
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ASSIGNMENT BY INVENTOR

This Assignment is by the following individuals (the "Assignors"):

- John Francis Quanci, having a mailing address of 305 Mount Vernon Ave, Haddonfield, NJ 08033
- Gary Dean West, having a mailing address of c/o SunCoke Technology and Development LLC, 1011 Warrenville Road, 6th Floor, Lisle, IL 60532
- Daniel C. Charles, having a mailing address of c/o SunCoke Technology and Development LLC, 1011 Warrenville Road, 6th Floor, Lisle, IL 60532
- Ryan L. Yates, having a mailing address of c/o SunCoke Technology and Development LLC, 1011 Warrenville Road, 6th Floor, Lisle, IL 60532

The Assignors invented one or more certain inventions (the "Invention(s)") described in an application for Letters Patent of the United States titled "COKE PLANT TUNNEL REPAIR AND ANCHOR DISTRIBUTION" as U.S. Non-Provisional Application No. 16/729,170 and International Application No. PCT/US2019/068823 both filed on December 27, 2019 (the "Applications").

SunCoke Technology and Development LLC, a Corporation of Delaware having its principal place of business at 1011 Warrenville Road 6th Floor, Lisle, IL 60532 (the "Assignee"), desire to acquire the entire right, title and interest in and to the Invention(s) and the Applications, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledges, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Applications, and any Patents; any divisions, continuations, and continuations-in-part of the Applications and any other application claiming priority rights from the Applications; any reissues, reexaminations, or extensions of any and all

Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Applications (collectively, the "Rights"). Assignor warrants that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deem necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

For Assignor/Inventor John Francis Quanci:

Date: 1/14/2020

Signature

John F. Quanci
John Francis Quanci

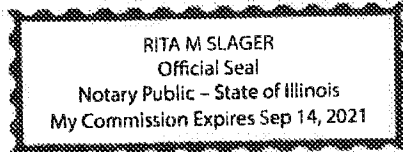
United States of America)

State of Illinois) ss.

County of St. Clair)

On this 14th day of February, 2020 before me
personally came John Francis Quanci, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

[Signature]
Notary Public



For Assignor/Inventor Gary Dean West:

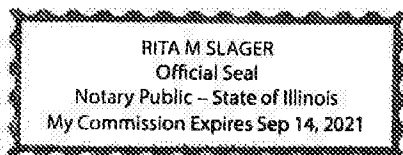
Date: Feb 29, 2021 Signature

[Signature]
Gary Dean West

United States of America)
State of Illinois) ss.
County of Willard)

On this 29th day of February, 2021 before me
personally came Gary Dean West, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

[Signature]
Notary Public



For Assignor/Inventor Daniel C. Charles:

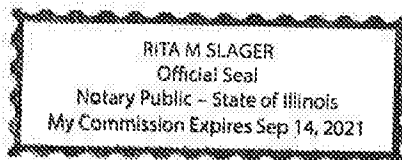
Date: 1/14/2020 Signature


Daniel C. Charles

United States of America)
State of Illinois) ss.
County of St. Louis)

On this 14th day of February, 2020 before me
personally came Daniel C. Charles, to me known to be the individual described in and
who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public



For Assignor/Inventor Ryan L. Yates:

Date: 2/27/2020 Signature

Ryan L. Yates
Ryan L. Yates

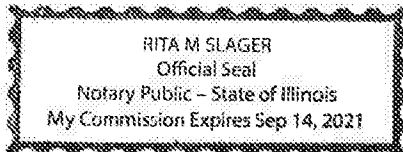
United States of America)

State of Illinois) ss.

County of Madison)

On this 27th day of February, 2020 before me
personally came Ryan L. Yates, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Rita M. Slager
Notary Public



For Assignee SunCoke Technology and Development LLC:

Date: 2/27/2020

Signature

John F. Quanci
Authorized Signer

John Francis Quanci
Authorized Signer – Printed Name

Vice President, Engineering and
Technology
Authorized Signer – Title