

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT6830872

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN FRANCIS QUANCI	03/14/2016
CHUN WAI CHOI	03/14/2016
MARK ANTHONY BALL	03/18/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SUNCOKE TECHNOLOGY AND DEVELOPMENT LLC
<b>Street Address:</b>	1011 WARRENVILLE ROAD 6TH FLOOR
<b>City:</b>	LISLE
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60532
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16735103
<b>CORRESPONDENCE DATA</b>	
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<b>Email:</b>	patentprocurement@perkinscoie.com
<b>Correspondent Name:</b>	PERKINS COIE LLP
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<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98111-1247
<b>ATTORNEY DOCKET NUMBER:</b>	084553-8039.US02
<b>NAME OF SUBMITTER:</b>	TORI ASHFORD-DOWNING
<b>SIGNATURE:</b>	/Tori Ashford-Downing/
<b>DATE SIGNED:</b>	07/26/2021
<b>Total Attachments: 6</b>	
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## ASSIGNMENT BY INVENTOR

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

- Chun Wai Choi, having a mailing address of 1011 Warrenville Road 6th Floor, Lisle, IL 60532
- John Francis Quanci, having a mailing address of 305 Mount Vernon Ave, Haddonfield, NJ 08033
- Mark Anthony Ball, having a mailing address of 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 DYNAMIC CHARGING IN HEAT RECOVERY COKE OVEN, and filed on December 28, 2015 as U.S. Provisional Application No. 62/271,963 (the "Application").


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.

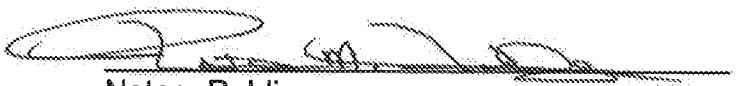
For Assignor/Inventor Chun Wai Choi:

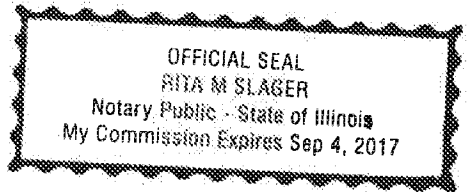
Date: 3/14/2016 Signature

  
Chun Wai Choi

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

On this 14th day of March, 2016 before me personally came Chun Wai Choi, 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 John Francis Quanci:

Date: 3/14/16 Signature John F. Quanci  
John Francis Quanci

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

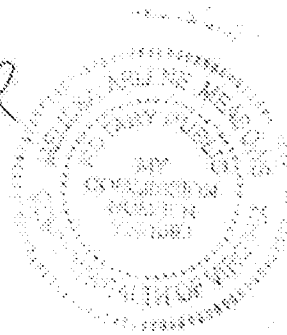
On this 14th day of March, 2016 before me personally came John Francis Quanci, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]  
Notary Public

For Assignor/Inventor Mark Anthony Ball:

Date 3/18/2016 Signature

Mark Anthony Ball  
Mark Anthony Ball



United States of America )  
State of Virginia ) ss.  
County of Tazewell )

On this 18<sup>th</sup> day of March, 2016 before me personally came Mark Anthony Ball, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Melissa Arlene Meadows  
Notary Public

For Assignee SunCoke Technology and Development LLC:

Date: March 14, 2021

Signature

John F. Quanci  
Authorized Signer

John Francis Quanci  
Authorized Signer – Printed Name

Vice President, Engineering and  
Technology  
Authorized Signer – Title