

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7145207

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JASON CRUM	02/22/2019
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: 1		
	Property Type	Number
	Application Number:	17584672
CORRESPONDENCE DATA		
Fax Number:	(206)359-7198	
<i>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.</i>		
Phone:	2063598000	
Email:	patentprocurement@perkinscoie.com	
Correspondent Name:	PERKINS COIE LLP	
Address Line 1:	PO BOX 1247	
Address Line 4:	SEATTLE, WASHINGTON 98111-1247	
ATTORNEY DOCKET NUMBER:	084553-8052.US02	
NAME OF SUBMITTER:	TORI ASHFORD-DOWNING	
SIGNATURE:	/Tori Ashford-Downing/	
DATE SIGNED:	01/27/2022	
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
- Chun Wai Choi, having a mailing address of c/o SunCoke Technology and Development LLC, 1011 Warrenville Road, 6th Floor, Lisle, IL 60532
- Mark Anthony Ball, having a mailing address of c/o SunCoke Technology and Development LLC, 1011 Warrenville Road, 6th Floor, Lisle, IL 60532
- Jason Crum, 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 "HEAT RECOVERY FOUNDATION" and filed on December 28, 2018 as U.S. Provisional Application No. 62/786,320 (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.

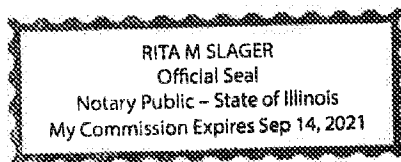
For Assignor/Inventor John Francis Quanci:

Date: 2/16/19 Signature John F. Quanci
John Francis Quanci

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

On this 5th day of February, 2019 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



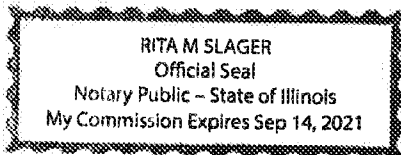
For Assignor/Inventor Chun Wai Choi:

Date: 2/12/2019 Signature 
Chun Wai Choi

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

On this 12th day of February, 2019 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: Mark Anthony Ball:

Date: 2/5/19

Signature

Mark Anthony Ball
Mark Anthony Ball

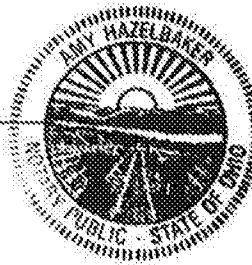
United States of America)

State of Ohio) ss.

County of Adams)

On this 5th day of February, 2019 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.

Amy Hazelbaker
Notary Public




Amy Hazelbaker
Notary Public
In and For the State of Ohio
Recorded in Adams County
My Commission Expires
14 August 2022

For Assignor/Inventor: Jason Crum:

Date: 02-22-19

Signature


Jason Crum

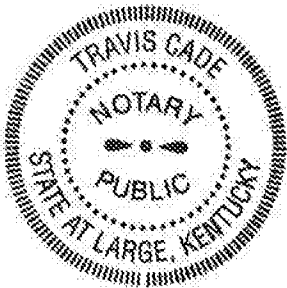
United States of America)

State of Kentucky) ss.

County of Boyd)

On this 22nd day of February, 2019 before me
personally came Jason Crum to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged
execution of the same.

Trade Code #595117 Exp 02/12/2022
Notary Public



For Assignee SunCoke Technology and Development LLC:

Date: 2/5/2019

Signature John F. Quanci
Authorized Signer

John Francis Quanci
Authorized Signer – Printed Name

Vice President, Engineering and
Technology
Authorized Signer – Title