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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE: ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
KATHARINE E. RUSSELL	08/27/2015
KHAMBATH VICHITVONGSA	08/28/2015
JEFFREY SCOTT BROMBOLICH	08/27/2015
RICHARD A. MROZOWICZ	08/27/2015
EDWARD A. GLASS	10/01/2015

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16251352

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NAME OF SUBMITTER: TORI ASHFORD-DOWNING

SIGNATURE: /Tori Ashford-Downing/

DATE SIGNED: 04/15/2019

Total Attachments: 8

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PATENT REEL: 048883 FRAME: 0577

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PATENT REEL: 048883 FRAME: 0578

ASSIGNMENT BY INVENTOR

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

- Katharine E. Russell, having a mailing address of 1011 Warrenville Road, 6th
 Floor, Lisle, IL 60532
- Khambath Vichitvongsa, having a mailing address of 1011 Warrenville Road,
 6th Floor, Lisle, IL 60532
- Jeffrey Scott Brombolich, having a mailing address of 1011 Warrenville Road,
 6th Floor, Lisle, IL 60532
- Richard A. Mrozowicz, having a mailing address of 1011 Warrenville Road,
 6th Floor, Lisle, IL 60532
- Edward A. Glass, 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 METHOD AND SYSTEM FOR OPTIMIZING COKE PLANT OPERATION AND OUTPUT, and filed on August, 28 2015 as U.S. Non-Provisional Application No. 14/839,493 and PCT No. PCT/US2015/047522 (the "Applications"). Assignor hereby authorizes, and requests, Assignee's Legal Representatives to insert the Application Nos. and filing date into the assignment after they are known.

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

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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.

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For Assignor/Inventor Katharine Elizabeth Russell:

Date: <u>8/2יווג</u> Signature	Katharine Eliza	and the second s	A
United States of America State of Illinsia	l		
County of Dunage) SS.		
On this Accust day of 27	<u> </u>	200	_ before me
personally came Katharine Elizabe	th Russell , t	o me known to	be the individual
described in and who executed the of the same.	toregoing instrume	ent, and acknow	vledged execution
7740 L XXV	**************************************		CIAL SEAL
MANUAL MA	_24	å kotary Public	A D HOGUE c - State of Illinois
Notaby Public		My Commission	Expires Jul 13, 2019
			March March March March March March

For Assignor/Inventor Khambath Vichitvongsa:

Date: (人) は Signature	
United States of America State of \(\sqrt{\langle i \color is} \) ss. County of \(\sqrt{\langle i \color is} \)	
On this	ual ıtior
OFFICIAL SEAL ANGELA D HOGUE Notary Public State of Binois My Commission Expires Jul 13, 2019	***

Date: 8/3/2015 Signature

United States of America
State of IIG nots
County of Do Page

On this 274 day of America jersonally came Jeffrey Scott Brombolich , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

OFFICIAL SEAL ANGEL A D HORSE SHOWN SEAL S

Richard A/Mrozowicz United States of America State of Illinois County of _/___/__ before me Richard A. Mrozówicz , to me known to be the individual personally came described in and who executed the foregoing instrument, and acknowledged execution of the same. OFFICIAL SEAL ANGELA D HOBUE Notary Public - State of Illinois

For Assignor/Inventor Richard A. Mrozowicz:

Vly Commission Expires Jul 13, 2018

For Assignor/Inventor Edward A. Gla	\$8; ~~}
Date: 19/01/201 Signature	dward A. Gless
United States of America State of エルカルシー County of <u>ルムインの</u>	\$.
On this 15+ day of 00+0	2015 before me
described in and who executed the fore of the same.	s, to me known to be the individual ogoing instrument, and acknowledged execution
Notary Public TO/E/C	OFFICIAL SEAL ANGELA D HOGUE Notary Public - State of Illinois My Commission Expires Jul 13, 2019
and other factors and the second of the seco	

For Assignee SunCoke Technology and Development LLC:

Signature MA7 QULC

F. Quanci

Authorized Signer – Printed Name

Authorized Signer 2 Title