

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
- **John Michael Richardson**, having a mailing address of c/o SunCoke Technology and Development LLC, 1011 Warrenville Road 6th Floor, Lisle, IL 60532
- **Jonathan Hale Perkins**, 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 "COAL BLENDS, FOUNDRY COKE PRODUCTS, AND ASSOCIATED SYSTEMS, DEVICES, AND METHODS" and filed on November 4, 2022 as U.S. Provisional Application No. 63/382,446 (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: 2/9/23

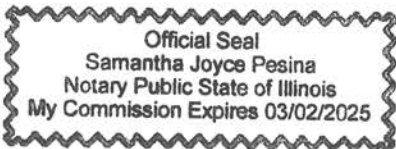
Signature

John F. Quanci
John Francis Quanci

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

On this 9th day of February, 2023 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.

Santa Pesina
Notary Public



For Assignor/Inventor John Michael Richardson:

Date: 3/9/23

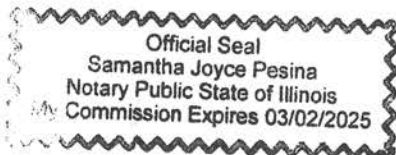
Signature


John Michael Richardson

United States of America)
State of ILLINOIS) ss.
County of Kane)

On this 8th day of March, 2023 before me
personally came John Michael Richardson, to me known to be the individual
described in and who executed the foregoing instrument and acknowledged execution
of the same.


Notary Public



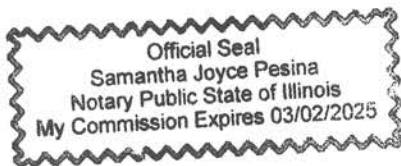
For Assignor/Inventor Jonathan Hale Perkins:

Date: 2/7/23 Signature 
Jonathan Hale Perkins

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

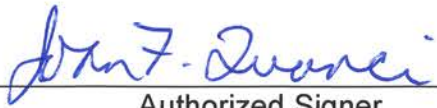
On this 7th day of February, 2023 before me
personally came Jonathan Hale Perkins, to me known to be the individual
described in and who executed the foregoing instrument and acknowledged execution
of the same.


Notary Public



For Assignee SunCoke Technology and Development LLC:

Date: 2/9/23

Signature 
Authorized Signer

John Francis Quanci
Authorized Signer – Printed Name

Vice President, Engineering and
Technology
Authorized Signer – Title