

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4779915

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ENERKEM INC.	01/11/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GLAS AMERICAS LLC
<b>Street Address:</b>	230 PARK AVENUE
<b>Internal Address:</b>	10TH FLOOR
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10169
<b>PROPERTY NUMBERS Total: 20</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	8080693
Patent Number:	8436215
Patent Number:	8137655
Patent Number:	8192647
Patent Number:	9353042
Patent Number:	8636923
Patent Number:	8834834
Patent Number:	8981165
Patent Number:	8987530
Patent Number:	8927762
Patent Number:	9115046
Patent Number:	9150488
Patent Number:	9738569
Patent Number:	9764277
Patent Number:	9034786
Patent Number:	9540241
Patent Number:	6436161
Patent Number:	9428706
Application Number:	15168972

Property Type	Number
Application Number:	15481896

**CORRESPONDENCE DATA**

**Fax Number:**

*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.*

**Phone:** (212) 530-5000

**Email:** trademark@milbank.com

**Correspondent Name:** ANNA BROOK

**Address Line 1:** 28 LIBERTY STREET, 47TH FLOOR

**Address Line 2:** MILBANK, TWEED, HADLEY & MCCLOY, LLP

**Address Line 4:** NEW YORK, NEW YORK 10005

**ATTORNEY DOCKET NUMBER:** 40982.01700

**NAME OF SUBMITTER:** ANNA BROOK

**SIGNATURE:** /Anna Brook/

**DATE SIGNED:** 01/17/2018

**Total Attachments: 7**

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**SHORT-FORM INTELLECTUAL PROPERTY SECURITY AGREEMENT**

WHEREAS, Enerkem Inc. (the "Grantor") has applied for intellectual property and has been issued intellectual property in the United States Patent and Trademark Office, and is the owner of the intellectual property applications and issued intellectual property listed in the attached Schedule of Intellectual Property and Intellectual Property Applications;

WHEREAS, the Grantor has entered into a Deed of Hypothec dated as of December 29, 2017 (as modified from time to time, the "Security Agreement"), in which the Grantor has granted certain interests in favor of GLAS AMERICAS LLC, as Collateral Agent ("Collateral Agent") for the ratable benefit of the Secured Parties (as defined therein); and

WHEREAS, pursuant to the Security Agreement, the Grantor has agreed with the Collateral Agent and the other Secured Parties to execute this Short-Form Intellectual Property Security Agreement;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor hereby grants and confirms the grant, as applicable, to the Collateral Agent for the ratable benefit of the Secured Parties, to the extent provided in the Security Agreement (the terms and conditions of which are hereby incorporated herein), a security interest and hypothec in all of its right, title and interest in, to and under all the intellectual property and intellectual property applications whether now owned or at any time hereafter acquired, of the Grantor issued by, or for which applications have been filed with, the United States Patent and Trademark Office, including the issued intellectual property and intellectual property applications on the attached Schedule of Intellectual Property and Intellectual Property Applications, and all related intellectual property and applications thereto, including all reissuances, continuations, continuations-in-part, revisions, extensions, re-examinations thereof, any intellectual property and intellectual property applications claiming priority to said issued intellectual property and intellectual property applications or from which said intellectual property and intellectual property applications claim priority, and pending applications associated therewith, as collateral security for the prompt and complete payment and performance when due of all the Secured Obligations (as defined in the Security Agreement) (provided that no security interest shall be granted in United States intent-to-use trademark applications to the extent that, and solely during the period in which, the grant of a security interest therein would impair the validity or enforceability of such intent-to-use trademark applications under applicable federal law). Notwithstanding the foregoing, in the event of any conflict between this Short-Form Intellectual Property Security Agreement and the Security Agreement, the Security Agreement shall control.

Date: January 11, 2018

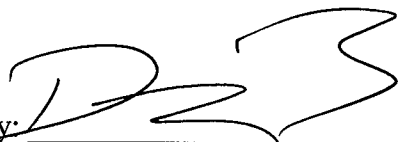
IN WITNESS WHEREOF, the Grantor has caused this Short-Form Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

**ENERKEM INC**

By: 

Name: Vincent Chornet

Title: Authorized signatory

By: 

Name: Dominique Boies

Title: Authorized signatory

Accepted and Agreed:

GLAS AMERICAS LLC

By: \_\_\_\_\_



Name:

ADAM BERMAN

Title:

VICE PRESIDENT

SCHEDULE OF  
INTELLECTUAL PROPERTY AND INTELLECTUAL PROPERTY APPLICATIONS

## Intellectual Property and Intellectual Property Application

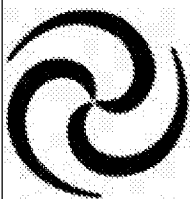
*Patents*

<b>State</b>	<b>Current Status</b>	<b>Application / Patent No.</b>	<b>Title</b>	<b>Date Granted/ Allowed or filing date if still pending</b>
United States of America	Granted	8080693	PRODUCTION OF ETHANOL FROM METHANOL	20-Dec-11
United States of America	Granted	8436215	PRODUCTION OF ETHANOL FROM METHANOL	7-May-13
United States of America	Granted	8137655	PRODUCTION AND CONDITIONING OF SYNTHESIS GAS OBTAINED FROM BIOMASS	20-Mar-12
United States of America	Granted	8192647	PRODUCTION OF SYNTHESIS GAS THROUGH CONTROLLED OXIDATION OF BIOMASS	05-June-12
United States of America	Granted	9353042	PRODUCTION OF ACETATES FROM ACETIC ACID AND ALCOHOLS	31-May-16
United States of America	Granted	8636923	PRODUCTION OF SYNTHESIS GAS BY HEATING OXIDIZED BIOMASS WITH A HOT GAS OBTAINED FROM THE OXIDATION OF RESIDUAL PRODUCTS	28-Jan-14

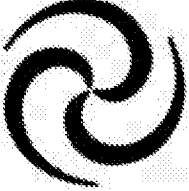
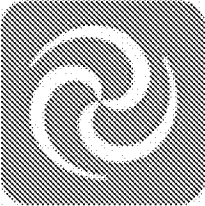
United States of America	Granted	8834834	USE OF CHAR PARTICLES IN THE PRODUCTION OF SYNTHESIS GAS AND IN HYDROCARBON REFORMING	16-Sep-14
United States of America	Granted	8981165	PRODUCTION OF ALCOHOLS HAVING THREE CARBON ATOMS FROM CARBONACEOUS MATERIALS	17-Mar-15
United States of America	Granted	8987530	PRODUCTION OF ALCOHOLS HAVING AT LEAST FOUR CARBON ATOMS FROM CARBONACEOUS MATERIALS	24-Mar-15
United States of America	Granted	8927762	PRODUCTION OF OXYGENATED COMPOUNDS FROM CARBON MONOXIDE AND DIMETHYL CARBONATE	6-Jan-15
United States of America	Granted	9115046	PRODUCTION OF ETHANOL FROM SYNTHESIS GAS	25-Aug-15
United States of America	Granted	9150488	PRODUCTION OF ACRYLIC ACID AND ETHANOL FROM CARBONACEOUS MATERIALS	6-Oct-15
United States of America	Granted	9738569	PRODUCTION OF ACRYLIC ACID AND ETHANOL FROM CARBONACEOUS MATERIALS(CIP)	22-Aug-17
United States of America	Granted	9764277	SYNTHESIS GAS SEPARATION AND REFORMING PROCESS	19-Sept-17

United States of America	Granted	9034786	CATALYSTS FOR PRODUCING HYDROGEN AND SYNTHESIS GAS (1 claim)	19-May-15
United States of America	Granted	9540241	CATALYSTS FOR PRODUCING HYDROGEN AND SYNTHESIS GAS (CIP)	10-Jan-17
United States of America	Granted	6436161	A MOBILE GRANULAR BED FILTRATION APPARATUS FOR HOT GAS CONDITIONING	20-Aug-02
United States of America	Granted	9428706	METHOD FOR LOW-SEVERITY GASIFICATION OF HEAVY PETROLEUM RESIDUES	30-Aug-16
United States of America	Pending	15/168972	METAL-LOADED ZEOLITE CATALYSTS FOR THE HALOGEN—FREE CONVERSION OF DIMETHYL ETHER TO METHYL ACETATE	31-May-16
United States of America	Pending	15/481896	HYBRID EXTRUDED MIXED ZEOLITE CATALYST FOR SYNTHESIS OF LIGHT OLEFINS	7-Apr-17

*Trademarks*

State	Trademark	Status	Registration No.	Application No.
United States of America		Registered	5263139	85396582



State	Trademark	Status	Registration No.	Application No.
United States of America	ENERKEM	Application		85394813
United States of America	ENERKEM	Application		86318428
United States of America		Application		86318442
United States of America		Application		86749155