

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM393310

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	MERGER
<b>EFFECTIVE DATE:</b>	12/31/2015
<b>SEQUENCE:</b>	1

## CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
North American Refractories Company		12/23/2015	Corporation: OHIO

## RECEIVING PARTY DATA

<b>Name:</b>	APGI, LLC
<b>Street Address:</b>	1305 Cherrington Parkway, Ste. 100
<b>City:</b>	Moon Township
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15108
<b>Entity Type:</b>	Limited Liability Company: DELAWARE

## PROPERTY NUMBERS Total: 6

Property Type	Number	Word Mark
Registration Number:	0803714	TAYCOR
Registration Number:	1033043	NARMAG
Registration Number:	1033045	NARCOGUN
Registration Number:	1033044	NARTAR
Registration Number:	1042911	SHAMROCK
Registration Number:	3056442	SUPER NARMAG

## CORRESPONDENCE DATA

Fax Number: 4406841095

*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: 440-684-1090

Email: MKUSNER@KUSNERJAFFE.COM,  
EMORLAN@KUSNERJAFFE.COM

Correspondent Name: MARK KUSNER / KUSNER AND JAFFE

Address Line 1: 6150 Parkland Boulevard, STE. 105

Address Line 2: PARAGON CENTER II

Address Line 4: MAYFIELD HEIGHTS, OHIO 44124

OP \$165.00 0803714

<b>NAME OF SUBMITTER:</b>	MARK KUSNER
<b>SIGNATURE:</b>	/mark kusner/
<b>DATE SIGNED:</b>	08/01/2016
<b>Total Attachments: 3</b> source=1. HWI-NARCO to APGI Recordal#page1.tif source=1. HWI-NARCO to APGI Recordal#page2.tif source=1. HWI-NARCO to APGI Recordal#page3.tif	

# Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"NORTH AMERICAN REFRACTORIES COMPANY", AN OHIO CORPORATION, WITH AND INTO "APGI, LLC" UNDER THE NAME OF "APGI, LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE ON THE TWENTY-THIRD DAY OF DECEMBER, A.D. 2015, AT 7:33 O`CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2015 AT 6:52 O`CLOCK P.M.



A handwritten signature in black ink, appearing to read "JBULLOCK", written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

5873444 8100M  
SR# 20151524801

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

Authentication: 201623473  
Date: 01-06-16

**TRADEMARK**  
**REEL: 005844 FRAME: 0824**

**CERTIFICATE OF MERGER  
MERCING  
NORTH AMERICAN REFRACTORIES COMPANY  
INTO  
APGI, LLC**

APGI, LLC, organized and existing under and by virtue of the Delaware Limited Liability Company Act, does hereby certify:

**FIRST:** That the name and state of formation of each of the constituent entities of the merger is as follows:

<u>Name</u>	<u>State of Formation</u>
North American Refractories Company	Ohio
APGI, LLC	Delaware

**SECOND:** That an Agreement and Plan of Merger between the parties to the merger has been approved, adopted, certified, executed and acknowledged by each of the constituent entities in accordance with the requirements of Section 18-209 of the Delaware Limited Liability Company Act.

**THIRD:** That the name of the surviving limited liability company of the merger is APGI, LLC.

**FOURTH:** That the Certificate of Formation of APGI, LLC, a Delaware limited liability company which will survive the merger, shall be the Certificate of Formation of the surviving limited liability company.

**FIFTH:** The merger is to become effective at 6:52 p.m., Eastern Standard Time, December 31, 2015.

**SIXTH:** That the executed Agreement and Plan of Merger is on file at the principal place of business of the surviving limited liability company, the address of which is 1305 Cherrington Parkway, Suite 100, Moon Township, PA 15108.

**SEVENTH:** That a copy of the Agreement and Plan of Merger will be furnished by the surviving limited liability company, on request and without cost, to any stockholder or member of any constituent entity.

[Signature Page Follows]

IN WITNESS WHEREOF, APGI, LLC has caused this Certificate of Merger to be  
duly executed as of the 23rd day of December, 2015.

APGI, LLC by its sole member  
A.P. Green Industries, Inc.

By Jessica L. Nock

Name: Jessica L. Nock

Title: Vice President - Rationalization