

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM437353

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

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
NORTH AMERICAN REFRACTORIES COMPANY		12/23/2015	Corporation: OHIO

RECEIVING PARTY DATA

Name:	APGI, LLC
Street Address:	1305 CHERRINGTON PARKWAY, STE 100
City:	MOON TOWNSHIP
State/Country:	PENNSYLVANIA
Postal Code:	15108
Entity Type:	Limited Liability Company: DELAWARE

PROPERTY NUMBERS Total: 7

Property Type	Number	Word Mark
Registration Number:	1098049	ZRX
Registration Number:	2148049	COMANCHE
Registration Number:	1089709	TUFSHOT
Registration Number:	2167926	SHOTKAST
Registration Number:	2171589	QUANTUM
Registration Number:	2171588	TOMAHAWK
Registration Number:	1098048	SERV

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 & JAFFE

Address Line 1: 6150 Parkland Boulevard, STE. 105

Address Line 2: PARAGON CENTER II

Address Line 4: Mayfield Heights, OHIO 44124

TRADEMARK

NAME OF SUBMITTER:	MARK KUSNER
SIGNATURE:	/mark kusner/
DATE SIGNED:	08/01/2017
Total Attachments: 3 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

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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.




Jeffrey W. Bullock, Secretary of State

5873444 8100M
SR# 20151524801

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 201623473
Date: 01-06-16

TRADEMARK
REEL: 006119 FRAME: 0399

**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