# 503823944 05/12/2016

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3870593

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		MERGER			
		05/04/2016			
EFFECTIVE DATE:		05/04/2016			
CONVEYING PARTY	DATA				
		Name	Execution Date		
ECO SERVICES OPE	ERATIONS LL	0	05/04/2016		
RECEIVING PARTY I	ΟΑΤΑ				
Name:		PORATION			
Street Address:	P. O. BO	< 840			
City:	VALLEY F	ORGE			
State/Country:	PENNSYL	VANIA			
Postal Code:	19482				
PROPERTY NUMBER	RS Total: 5				
Property Typ	be 🛛	Number			
Patent Number:	68	18799			
Patent Number:	70	34193			
Patent Number:	63	15975			
Patent Number:	61	97837			
Patent Number:	62	45216			
	4 <sup>.</sup> I be sent to th	2)562-1041 <b>ne e-mail address first; if that is unsu</b>			
•		<b>f that is unsuccessful, it will be sent</b> 2-562-1637	via US Mail.		
		ki.cremonese@bipc.com			
		CHAEL L. DEVER			
•		GRANT STREET			
		TH FLOOR			
Address Line 4:	Pl.	TTSBURGH, PENNSYLVANIA 15219			
ATTORNEY DOCKET NUMBER:		0068905-000550			
		MICHAEL L. DEVER			
	R:	MICHAEL L. DEVER			
NAME OF SUBMITTEI	R:	MICHAEL L. DEVER /Michael L. Dever/			

## Total Attachments: 8 source=PQ Corp-Eco Services Operations Merger#page1.tif source=PQ Corp-Eco Services Operations Merger#page2.tif source=PQ Corp-Eco Services Operations Merger#page3.tif source=PQ Corp-Eco Services Operations Merger#page4.tif source=PQ Corp-Eco Services Operations Merger#page5.tif source=PQ Corp-Eco Services Operations Merger#page6.tif source=PQ Corp-Eco Services Operations Merger#page7.tif source=PQ Corp-Eco Services Operations Merger#page8.tif



### 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:

"ECO SERVICES OPERATIONS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

WITH AND INTO "PQ CORPORATION" UNDER THE NAME OF "PQ CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, AS RECEIVED AND FILED IN THIS OFFICE ON THE FOURTH DAY OF MAY, A.D. 2016, AT 10:20 O`CLOCK A.M.



6033136 8100M SR# 20162811207

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

Authentication: 202257667 Date: 05-04-16

PATENT REEL: 038566 FRAME: 0860

#### CERTIFICATE OF MERGER OF ECO SERVICES OPERATIONS LLC WITH AND INTO PQ CORPORATION

#### (Under Section 18-209 of the Delaware Limited Liability Company Act)

#### May 4, 2016

Pursuant to Section 18-209 of the Delaware Limited Liability Company Act, PQ Corporation, a Pennsylvania corporation (the "<u>Company</u>"), in connection with the merger of Eco Services Operations LLC, a Delaware limited liability company, with and into the Company (the "<u>Merger</u>"), hereby certifies as follows:

FIRST: The name, jurisdiction of domicile, formation or organization, and type of entity of each of the constituent entities (the "Constituent Entities") are:

Name	Jurisdiction of Domicile, Formation or Organization	Type of Entity	
PQ Corporation	Pennsylvania	Corporation	
Eco Services Operations LLC	Delaware	Limited Liability Company	

SECOND: An Amended and Restated Reorganization and Transaction Agreement, dated as of May 3, 2016, by and among the Company, Eco Services Operations LLC, and the other parties thereto, as may be amended, restated, or otherwise modified from time to time (the "<u>Transaction Agreement</u>"), setting forth the terms and conditions of the Merger, has been approved, adopted, certified, executed and acknowledged by each of the Constituent Entities.

THIRD: The Company shall be the surviving corporation of the Merger. The name of the surviving corporation is "PQ Corporation" (the "Surviving Corporation").

FOURTH: The Certificate of Incorporation of the Surviving Corporation, as amended, in effect immediately prior to the Merger shall be the Certificate of Incorporation of the Surviving Corporation.

FIFTH: The Merger shall become effective immediately upon the filing of this Certificate of Merger with the Secretary of State of the State of Delaware.

SIXTH: The surviving foreign Corporation agrees that it may be served with process in the State of Delaware in any action, suit or proceeding for the enforcement of any obligation of any domestic limited liability company which is to merge or consolidate, and irrevocably appoints the Secretary of State as its agent to accept service of process in any such action, suit or proceeding. The address to which a copy of such process shall be mailed to by the Secretary of State is: 300 Lindenwood Drive, Valleybrooke Corporate Center, Malvern, PA 19355-1740.

SEVENTH: An executed copy of the Transaction Agreement is on file at the office of the Surviving Corporation located at 300 Lindenwood Drive, Valleybrooke Corporate Center, Malvern, PA 19355-1740. A copy of the Transaction Agreement will be furnished by the Surviving Corporation, on request and without cost, to any member or stockholder of either of the Constituent Entities.

[The remainder of this page is intentionally left blank.]

IN WITNESS WHEREOF, this Certificate of Merger has been executed as of the date first written above.

#### PQ CORPORATION

By: <u>/s/ Joseph Koscinski</u> Name: Joseph Koscinski Title: Vice President and Secretary

#### ECO SERVICES OPERATIONS LLC

By: <u>/s/ Larry Lockwood</u> Name: Larry Lockwood Title: Chief Financial Officer

[Certificate of Merger Eco Opco with and into PQ Corp]

> PATENT REEL: 038566 FRAME: 0862

Entity# : 279434 Date Filed : 05/04/2016 Pedro A. Cortés Secretary of the Commonwealth

#### PENNSYLVANIA DEPARTMENT OF STATE BUREAU OF CORPORATIONS AND CHARITABLE ORGANIZATIONS

Return	Bocument by mail to: 999059650 PA <u>3</u>	
Name		-
Address	cls-ctharrisburgfulfillment @wolkerskluwer.com	-
City	State Zip Code	-
Return document by email to:		

Statement of Merger DSCB:15-335 (7/1/2015)

# 

TCO160504UZ0365

Fee: \$70 plus \$40 for *each* association that is a party to the merger The minimum amount to be submitted with this filing is \$150

In compliance with the requirements of the applicable provisions of 15 Pa.C.S. § 335 (relating to Statement of merger), the undersigned, desiring to effect a merger, hereby states that:

Read all instructions prior

#### A. For the surviving association:

1. The name of the surviving association is: <u>PQ Corporation</u>

2. The jurisdiction of formation of the surviving association: <u>Pennsylvania</u>

3. The type of association of the surviving association is (check only one):

Business Corporation
 Nonprofit Corporation
 Limited Liability Company
 Limited Partnership
 Limited Liability (General) Partnership
 Business Trust
 Professional Association
 Other

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### PATENT REEL: 038566 FRAME: 0863

#### DSCB:15-335-2

one box, provide address and	follow instructions	s for attachr	nents):
			an of merger.
tity (includes limited liability record of the new entity.	y limited partnersh	ip)	
ited liability partnership alreat mendment to or transfer of its fo	ady registered with reign registration aj	n the Depart oproved as p	ment. art of the plan
	-		
nplete part (a) OR (b) – not l	both:		
City	State	Zip	County
·			Dauphin
e Provider			County
		f Election)	
stic filing association <i>ficates</i> .			
er, if any, of its principal offic	ce:		
City	State	Zip	County
not, be registered with the De ficates.	epartment of State		*****
The address, including street and number, if any, of its registered or similar office, if any, required to be maintained by the law of its jurisdiction of formation; or if it is not required to maintain a registered or similar office, its principal office:			
City	State	Zip	
	ready in existence on Departmendment to its public organic r tity (includes limited liability record of the new entity. ited liability partnership alread mendment to or transfer of its for ited liability partnership simu DSCB:15-412 (Foreign Registrant mplete part (a) <b>OR</b> (b) not b City TD. e Provider iability partnership or election it of Registration) or $DSCB:15$ - stic filing association ficates. er, if any, of its principal office City not, be registered with the Deficates. er, if any, of its registered or s of formation; or if it is not reference.	ready in existence on Department of State recommendment to its public organic record approved as justice of the new entity. itity (includes limited liability limited partnership ecord of the new entity. ited liability partnership already registered with mendment to or transfer of its foreign registration again ited liability partnership simultaneously seeking. DSCB:15-412 (Foreign Registration Statement) with applete part (a) OR (b) – not both: City State TD. e Provider iability partnership or electing partnership at of Registration) or DSCB:15-8701A (Statement of State see, if any, of its principal office: City State To, if any, of its registered with the Department of State see, if any, of its registered or similar office, if ar of formation; or if it is not required to maintain formation; or if it is not required to maintai	ited liability partnership already registered with the Depart mendment to or transfer of its foreign registration approved as p ited liability partnership simultaneously seeking registration DSCB: 15-412 (Foreign Registration Statement) with applicable for mplete part (a) <b>OR</b> (b) - not both: City State Zip TD. e Provider iability partnership or electing partnership t of Registration) or DSCB: 15-8701A (Statement of Election) stic filing association leates. er, if any, of its principal office: City State Zip not, be registered with the Department of State leates. er, if any, of its registered or similar office, if any, required of formation; or if it is not required to maintain a registere

DSCB:1	5-335-3
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В.	For the merging association(s) that are not surviving the merger:				
	1. The name of the merging association is: Eco Services Operations LLC				
	2. The jurisdiction of formation of t	he merging association: Delaware	<b>1</b> -14-14-1		
	<ul> <li>The type of association is (check</li> <li>Business Corporation</li> <li>Nonprofit Corporation</li> <li>Limited Liability Company</li> </ul>	Limited Partnership Limited Liability (General) Partnership Limited Liability Limited Partnership	Business T Profession Other	al Association	
	4. Check and complete one of the f	ollowing addresses.			
	If the merging association is a domestic filing association, domestic limited liability partnership or registered foreign association, the current registered office address as on file with the Department of State. Complete part (a) $OR$ (b) - not both:				
	(a)	City S	State Zip	County	
	(b) c/o: Corporation Service Com	pany		Dauphin	
	Name of Commercial Registere	d Office Provider		County	
	If the merging association is a domestic association that is <i>not</i> a domestic filing association or limited liability partnership, the address, including street and number, if any, of its principal office:				
	Number and street	City S	State Zip	County	
	If the merging association is a nonregistered foreign association, the address, including street and number, if any, of its registered or similar office, if any, required to be maintained by the law of its jurisdiction of formation; or if it is not required to maintain a registered or similar office, its principal office address:				
	Number and street	City	State Zip		

Use Statement of Merger – Addendum (DSCB:15-335AD) for additional merging parties that are not surviving the merger.

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#### DSCB:15-335-4

C. Effective date of statement of merger (check, and if appropriate complete, one of the following): I This Statement of Merger shall be effective upon filing in the Department of State. 

- D. Approval of merger by merging associations (check all applicable statement(s)):
  - I For domestic entities The merger was approved in accordance with 15 Pa.C.S. Chapter 3, Subchapter C (relating to merger).
  - D For foreign associations The merger was approved in accordance with the laws of the jurisdiction of formation.
  - For domestic associations that are not domestic entities The merger was approved by the interest holders of the merging association in the manner required by its organic law.
- E. Attachments (see Instructions for required and optional attachments).

IN TESTIMONY WHEREOF, the undersigned merging associations have caused this Statement of Merger to be signed by duly authorized officers thereof this 4th day of May , 20 16 .

Eco Services Operations LLC	PQ Corporation		
Name of Merging Association	Name of Merging Association		
Signature	Signature		
Chief Financial Officer	Vice President, Secretary and General Counsel		
11040	1116		

#### DSCB:15-335-4

C. Effective date of statement of merger (check, and if appropriate complete, one of the following): ☑ This Statement of Merger shall be effective upon filing in the Department of State.

This Statement of Merger shall be effective on:

Date (MM/DD/YYYY)

\_at\_ Hour (if any)

**D.** Approval of merger by merging associations (check all applicable statement(s)):

For domestic entities - The merger was approved in accordance with 15 Pa.C.S. Chapter 3, Subchapter C (relating to merger).

For foreign associations – The merger was approved in accordance with the laws of the jurisdiction of formation.

For domestic associations that are not domestic entities – The merger was approved by the interest holders of the merging association in the manner required by its organic law.

E. Attachments (see Instructions for required and optional attachments).

IN TESTIMONY WHEREOF, the undersigned merging associations have caused this Statement of Merger to be signed by duly authorized officers thereof this \_\_\_\_\_ 4th \_\_\_\_ day of \_\_\_\_\_ May \_\_\_\_\_ , 20\_16

Eco Services Operations LLC	PQ Corporation		
Name of Merging Association	Name of Merging Association		
	Who		
Signature	Signature		
Chief Financial Officer	Vice President, Secretary and General Counsel		
Title	Title		