

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5401060

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	MERGER	
<b>EFFECTIVE DATE:</b>	10/01/2018	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	FEDERAL-MOGUL LLC	10/01/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	TENNECO INC.	
<b>Street Address:</b>	500 NORTH FIELD DRIVE	
<b>City:</b>	LAKE FOREST	
<b>State/Country:</b>	ILLINOIS	
<b>Postal Code:</b>	60045	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	13714662
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(844)670-6009	
<i>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.</i>		
<b>Phone:</b>	2484337386	
<b>Email:</b>	KCHAMBERLIN@DICKINSONWRIGHT.COM	
<b>Correspondent Name:</b>	ROBERT L. STEARNS	
<b>Address Line 1:</b>	2600 WEST BIG BEAVER ROAD	
<b>Address Line 2:</b>	SUITE 300	
<b>Address Line 4:</b>	TROY, MICHIGAN 48084	
<b>ATTORNEY DOCKET NUMBER:</b>	710240-6420	
<b>NAME OF SUBMITTER:</b>	ROBERT L. STEARNS	
<b>SIGNATURE:</b>	/ROBERT L. STEARNS/	
<b>DATE SIGNED:</b>	03/01/2019	
<b>Total Attachments: 3</b>		
source=TennecoIncMerger#page1.tif		
source=TennecoIncMerger#page2.tif		
source=TennecoIncMerger#page3.tif		

# Delaware

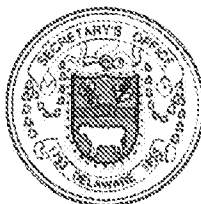
The First State

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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:

"FEDERAL-MOGUL LLC", A DELAWARE LIMITED LIABILITY COMPANY, WITH AND INTO "TENNECO INC." UNDER THE NAME OF "TENNECO INC." A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE ON THE FIRST DAY OF OCTOBER, A.D. 2018, AT 1:35 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



2656834 8100M  
SR# 20186917000

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

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

Authentication: 203524644  
Date: 10-01-18

**PATENT**  
**REEL: 048482 FRAME: 0445**

**CERTIFICATE OF MERGER**  
**OF**  
**FEDERAL-MOGUL LLC**  
(a Delaware limited liability company)

with and into

**TENNECO INC.**  
(a Delaware corporation)

*Pursuant to Section 264 of the General Corporation Law of the State of Delaware and  
Pursuant to Title 6, Section 18-209 of the Delaware Limited Liability Company Act*

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 01:35 PM 10/01/2018  
FILED 01:35 PM 10/01/2018  
SR 20186917000 - File Number 2656834

Tenneco Inc., a Delaware corporation, does hereby certify:

**FIRST:** The name and jurisdiction of each constituent entity to this merger are as follows:

<u>Name</u>	<u>Jurisdiction</u>
Tenneco Inc.	Delaware
Federal-Mogul LLC	Delaware

**SECOND:** An Agreement and Plan of Merger, dated as of October 1, 2018, between Federal-Mogul LLC, a Delaware limited liability company (the "Disappearing Company"), and Tenneco Inc., a Delaware corporation, has been approved, adopted, certified, executed and acknowledged by each of the constituent entities in accordance with Section 264, Section 251(f) and Section 228 of the General Corporation Law of the State of Delaware and in accordance with Title 6, Section 18-209 of the Delaware Limited Liability Company Act.

**THIRD:** The corporation surviving the merger is Tenneco Inc., a Delaware corporation (the "Surviving Corporation").

**FOURTH:** The Certificate of Incorporation of Tenneco Inc. shall be the Certificate of Incorporation of the Surviving Corporation.

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

**SIXTH:** The executed Agreement and Plan of Merger between the aforesaid constituent entities is on file at the office of the Surviving Company at 500 North Field Drive, Lake Forest, Illinois 60045. A copy will be provided, upon request and without cost, to any stockholder of the Surviving Corporation or to any member of the Disappearing Company.

[Signature Page Follows]

IN WITNESS WHEREOF, the Surviving Company has caused this Certificate of Merger to be signed by an authorized officer this 1st day of October, 2018.

TENNECO INC.

By: 

Name: Brian J. Kessler

Its: Chief Executive Officer

*[Signature Page - Certificate of Merger]*