

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT7714345

<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>
STONERIDGE, INC.	12/21/2022
STONERIDGE CONTROL DEVICES, INC.	12/21/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PNC BANK, NATIONAL ASSOCIATION, AS ADMINISTRATIVE AGENT AND COLLATERAL AGENT
<b>Street Address:</b>	1900 EAST NINTH STREET
<b>City:</b>	CLEVELAND
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44114
<b>PROPERTY NUMBERS Total: 28</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17144408
Application Number:	16739901
Application Number:	17679868
Application Number:	17689230
Application Number:	17692726
Application Number:	17765628
Application Number:	16377105
Application Number:	17723775
Application Number:	14269816
Application Number:	16427803
Application Number:	17832815
Application Number:	17347902
Application Number:	17376221
Application Number:	17376228
Application Number:	17882055
Application Number:	17885183
Application Number:	16549617
Application Number:	63400974
Application Number:	63405152

PATENT

Property Type	Number
Application Number:	63405919
Application Number:	17952459
Application Number:	63413709
Application Number:	17504648
Application Number:	63417872
Application Number:	13282438
Application Number:	17975173
Application Number:	17082744
Application Number:	63285649

#### CORRESPONDENCE DATA

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**Correspondent Name:** CHANGDAE BAEK

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**Address Line 2:** 1000 KEY TOWER, 127 PUBLIC SQUARE

**Address Line 4:** CLEVELAND, OHIO 44114

<b>ATTORNEY DOCKET NUMBER:</b>	034397.00072
<b>NAME OF SUBMITTER:</b>	CHANGDAE BAEK
<b>SIGNATURE:</b>	/s Changdae Baek/
<b>DATE SIGNED:</b>	12/27/2022

#### Total Attachments: 7

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**SUPPLEMENT NO. 1 TO AMENDED AND RESTATED  
PATENT SECURITY AGREEMENT**

This SUPPLEMENT NO. 1 TO AMENDED AND RESTATED PATENT SECURITY AGREEMENT (this “Supplement No. 1”) is made as of December 21, 2022, by STONERIDGE, INC., an Ohio corporation and STONERIDGE CONTROL DEVICES, INC., a Massachusetts corporation (each a “Grantor” and collectively, the “Grantors”) in favor of PNC BANK, NATIONAL ASSOCIATION, a national banking association, having an office at 1900 East Ninth Street, Cleveland, Ohio 44114, administrative agent and collateral agent (the “Agent”).

**RECITALS**

A. Pursuant to the Amended and Restated Patent Security Agreement dated as of June 5, 2019 (as heretofore amended, supplemented, confirmed or otherwise modified, the “Patent Security Agreement”) and the Amended and Restated Pledge and Security Agreement, dated as of June 5, 2019 (as from time to time amended, restated, modified or supplemented, the “Security Agreement,” capitalized terms used but not otherwise defined herein shall have the meanings assigned to such terms in the Security Agreement) each Grantor has granted a security interest to the Agent, for the benefit of the Secured Parties, in its Patents (including any after-acquired Patents).

B. Pursuant to Sections 3.6 and 4.6 of the Security Agreement, the Grantors and the Agent are permitted to amend Exhibit A to the Patent Security Agreement to include any new Patents.

C. The Grantors have advised the Agent that they have obtained an ownership interest in new Patents.

NOW, THEREFORE, in consideration of the foregoing and other good and valuable consideration, each Grantor hereby:

1. Exhibit A to the Patent Security Agreement is hereby supplemented (but not replaced) with the attached Exhibit A.

2. This Supplement No. 1 constitutes an amendment to the Patent Security Agreement. Except as expressly modified herein, all the terms and provisions of the Patent Security Agreement and Security Agreement remain in full force and effect.

3. This Supplement No. 1 is a Loan Document (as such term is used in the Security Agreement).

4. This Supplement No. 1 may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Supplement No. 1 by signing and delivering one or more counterparts.

[Signatures Follow on Next Page]

**IN WITNESS WHEREOF**, the Grantors have caused this Agreement to be signed by its authorized officer and duly attested the day and year first above written.

**STONERIDGE, INC.**

By: Matthew R. Horvath

Name: Matthew Horvath

Title: Chief Financial Officer & Treasurer

**STONERIDGE CONTROL DEVICES, INC.**

By: Matthew R. Horvath

Name: Matthew Horvath

Title: Chief Financial Officer & Treasurer

EXHIBIT A

PATENTS AND PATENT APPLICATIONS

Patent Name	Country	Application #	Patent #	Status	Record Owner
ACTUATOR MODULE FOR DRIVELINE ASSEMBLY	United States of America	17/144,408  01/08/2021		Pending	Stoneridge Control Devices, Inc.
Integrated Park Module Systems and Methods	United States of America	16/739,901  01/10/2020		Pending	Stoneridge, Inc.
Collapsible vehicle camera arm assembly	United States of America	17/679,868  02/24/2022		Pending	Stoneridge, Inc.
TRAILER MONITORING FOR DETECTING INATTENTIVE DRIVING	United States of America	17/689,230  03/08/2022		Pending	Stoneridge, Inc.
VEHICLE CAMERA MIRROR SYSTEM WITH ADJUSTABLE VIDEO FEED	United States of America	17/692,726  03/11/2022		Pending	Stoneridge, Inc.
PUMP FOR EVAPORATIVE EMISSIONS SYSTEM	United States of	17/765628  03/31/2022		Pending	Stoneridge Control Devices,

	America				Inc.
Filter for In-Line or Inlet Applications	United States of America	16/377,105 04/05/2019		Pending	Stoneridge, Inc.
AUTO PANNING CAMERA MIRROR SYSTEM INCLUDING WEIGHTED TRAILER ANGLE ESTIMATION	United States of America	17/723775 04/19/2022		Pending	Stoneridge, Inc.
Shift By Wire Transmission Range Selector System and Actuator for Same	United States of America	14/269,816 05/05/2014	9394991 07/19/2016	Granted	Stoneridge Control Devices, Inc.
Evaporative Emissions Control System Leak Check Module Including First and Second Solenoid Valves	United States of America	16/427,803 05/31/2019	11225934 01/18/2022	Granted	Stoneridge, Inc.
AUTO PANNING CAMERA MONITORING SYSTEM INCLUDING IMAGE BASED TRAILER ANGLE DETECTION	United States of America	17/832815 06/06/2022		Pending	Stoneridge, Inc.
IMAGE BASED TRAILER WHEELBASE DETERMINATION	United States of	17/347,902 06/15/2021		Pending	Stoneridge, Inc.

	America				
Modular BLDC Motor Construction	United States of America	17/376221 07/15/2021		Pending	Stoneridge, Inc.
Modular BLDC Motor Construction	United States of America	17/376228 07/15/2021		Pending	Stoneridge, Inc.
EVAPORATIVE EMISSIONS LEAK CHECK MODULE WITH INTEGRATED CONTROL AND COMMUNICATION SYSTEM	United States of America	17/882,055 08/05/2022		Pending	Stoneridge Control Devices, Inc.
SYSTEM AND METHOD FOR DETECTING THE POSITION OF A COVER OF AN ELECTRICAL CONNECTOR	United States of America	17/885,183 08/10/2022		Pending	Stoneridge Control Devices, Inc.
System and Method for Detecting the Position of a Cover of an Electrical Connector	United States of America	16/549,617 08/23/2019	11431136 08/30/2022	Granted	Stoneridge Control Devices, Inc.
VEHICLE ROLL-AWAY ACTUATORS	United States of America	63/400,974 08/25/2022		Pending	Stoneridge Control Devices, Inc.

CAMERA MONITORING SYSTEM INCLUDING TRAILER PRESENCE DETECTION USING OPTICAL FLOW	United States of America	63/405152 09/09/2022		Pending	Stoneridge, Inc.
TRAILER CHANGE DETECTION SYSTEM FOR COMMERCIAL VEHICLES	United States of America	63/405919 09/13/2022		Pending	Stoneridge, Inc.
TRAILER END TRACKING IN A COMMERCIAL VEHICLE CAMERA MONITORING SYSTEM	United States of America	17/952459 09/26/2022		Pending	Stoneridge, Inc.
TRAILER CLEARANCE MONITORING SYSTEM FOR COMMERCIAL VEHICLES	United States of America	63413709 10/06/2022		Pending	Stoneridge, Inc.
CAMERA MIRROR SYSTEM DISPLAY FOR COMMERCIAL VEHICLES INCLUDING SYSTEM FOR IDENTIFYING ROAD MARKINGS	United States of America	17/504,648 10/19/2021		Pending	Stoneridge, Inc.
TRAILER TOW CONNECTOR WITH LIGHT AND MAGNETIC GUIDE	United States of America	63/417872 10/20/2022		Pending	Stoneridge Control Devices, Inc.
Device for Illuminating Target Surface Including an Integrated Switch	United States of America	13/282,438 10/26/2011	8333495 12/18/2012	Granted	Stoneridge Control Devices, Inc.



Dual propulsion system with drive unit clutch actuator	United States of America	17/975173  10/27/2022		Pending	Stoneridge, Inc.
VEHICLE ELECTRONIC LOGGING SYSTEM	United States of America	17/082,744  10/28/2020		Pending	Stoneridge, Inc.
Dual propulsion system with drive unit clutch actuator	United States of America	63/285,649  12/03/2021		Pending	Stoneridge, Inc.