

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT6528176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BENDIX SPICER FOUNDATION BRAKE LLC	12/21/2020
RECEIVING PARTY DATA	
Name:	BENDIX COMMERCIAL VEHICLE SYSTEMS LLC
Street Address:	901 CLEVELAND STREET
City:	ELYRIA
State/Country:	OHIO
Postal Code:	44035
PROPERTY NUMBERS Total: 3	
Property Type	Number
Application Number:	17103236
Application Number:	16051628
Application Number:	17007037
CORRESPONDENCE DATA	
Fax Number:	(440)329-9626
<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>	
Phone:	440-329-9443
Email:	cheryl.greenly@bendix.com
Correspondent Name:	CHERYL L GREENLY
Address Line 1:	901 CLEVELAND STREET
Address Line 4:	ELYRIA, OHIO 44035
NAME OF SUBMITTER:	CHERYL L GREENLY
SIGNATURE:	/Cheryl L. Greenly/
DATE SIGNED:	02/02/2021
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 10	
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PATENT AND TRADEMARK ASSIGNMENT AGREEMENT

This Patent and Trademark Assignment Agreement ("Agreement") dated as of December 21, 2020, ("Effective Date") is made by and between BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, a Delaware limited liability company ("Assignee"), and BENDIX SPICER FOUNDATION BRAKE LLC, a Delaware limited liability company ("Assignor").

A. Assignor is the owner and registrant of certain trademarks listed in Exhibit A, attached hereto and incorporated herein (the "Trademarks").

B. Assignor is the owner of the issued patents and pending patent applications listed on Exhibit B, attached hereto and incorporated herein, of any Letters Patent(s) therefor, and in any reissue, extensions, renewals, reexaminations of such applications or Letters Patent(s), and in any divisional, continuing, continuation, and continuation-in-part applications thereof, to the full end of the term or terms for which such Letters Patent(s) issue (the "Patents").

C. Assignor is the owner of additional intellectual property, including but not limited to, invention disclosures in process but not yet filed, common law trademarks, trade dress, moral rights and confidential information, including but not limited to, know-how and trade secrets ("Other IP").

D. The parties are subject to that certain Membership Interest Purchase Agreement dated as of October 1, 2020 (the "MIPA"). Assignor has acquired all interest in the Assignee as per the terms of the MIPA.

E. Assignor desires to assign to Assignee, and Assignee desires to accept the assignment of, the Trademarks, Patents and Other IP.

NOW, THEREFORE, Assignee and Assignor hereby agree as follows:

1. Assignment. Assignor hereby transfers, sells, grants, conveys, assigns, and sets over unto Assignee all of Assignor's right, title, benefit, and interest in and to the Trademarks, Patents and Other IP throughout the world, together with the goodwill of the business symbolized by such Trademarks, Patents and Other IP, with full power and authority to exercise and enforce any right in respect of the Trademarks, Patents and Other IP, including but not limited to all trademark rights, patent rights, goodwill, or other intellectual property rights therein or relating thereto and including all causes of action, rights of recovery, and claims for damage or other relief relating, referring, or pertaining to any of the foregoing (collectively, the "Assets"). Assignor further acknowledges that included in the assignment of Trademarks, Patents and Other IP under this Agreement are the rights to bring suit to enforce any of the assigned Trademarks, Patents and Other IP against activities which occurred before the date of this Agreement.

2. Fees. The Assignee shall be responsible for payment of fees payable in respect of the transfer of the Trademarks, Patents and Other IP to Assignee.

3. Further Assurances. Assignor shall from time to time execute and deliver all such further documents and instruments and do all acts and things as Assignee may reasonably require to effectively carry out or better evidence or perfect the full intent and meaning of this Agreement

4. Governing Law. This Agreement is to be governed by, and construed and enforced in accordance with, the laws of the State of Delaware, without giving effect to any choice or conflict of law provision or rule.

5. Counterparts. This Agreement may be executed in any number of counterparts, each of which will be deemed an original and all of which together will constitute one and the same instrument. A signature to this Agreement delivered by facsimile or e-mail with a PDF attachment will be sufficient for all purposes between the Parties.

IN WITNESS WHEREOF, Assignor and Assignee have executed this Agreement as of the Effective Date.

ASSIGNEE:

BENDIX COMMERCIAL VEHICLE SYSTEMS LLC

By: 

Name: D. Russell Hood

Title: Vice President, General Counsel & Secretary

ASSIGNOR:

BENDIX SPICER FOUNDATION BRAKE LLC

By: 

Name: Aaron Schwass

Title: VP CoC Wheel End NA & General Manager

Patent and Trademark Assignment between Bendix Commercial Vehicle Systems LLC and Bendix Spicer Foundation Brake LLC
EXHIBIT A

Record ID	Trademark Name	Country	Status	Application Date	Application Number	Registration Date	Registration Number
ITM-BSFB-2008-6-US-01	ADB22X	United States of America	Registered	Feb-26-2019	88315970	Sep-03-2019	5850680
ITM-BSFB-2011-1-US-1	DI-PRO (word only)	United States of America	Registered	Jun-01-2011	85/334,738	Jan-10-2012	4,083,572
ITM-BSFB-2017-001-US-01	Endurasure	United States of America	Registered	Mar-27-2017	87386931	Mar-19-2019	5703922
ITM-BSFB-2010-1-US-1	Eversure	United States of America	Registered	Dec-21-2010	85/202,722	Jul-26-2011	4,002,379
TM-DI-2010-3-US-1	HFS	United States of America	Registered	Oct-10-2003	78/312,409	Aug-09-2005	2,984,050
ITM-BSFB-2016-2-US-1	Permaguard	United States of America	Registered	May-13-2016	87035821	Aug-22-2017	5272314
ITM-BSFB-2009-3-US-1	Versajust	United States of America	Registered	Jun-01-2011	85/335,064	Jan-10-2012	4,083,601
TM-BSFB-2009-3-CA-1	Versajust	Canada	Registered	Dec-01-2011	1554492	Nov-25-2013	TMA865,771
TM-BSFB-2009-3-IN-2	Versajust	India	Registered		2618030	Oct-25-2013	2618030
TM-BSFB-KBAG-2009-3-AU-1	Versajust	Australia	Registered	Nov-30-2011	A0027377	Nov-30-2011	1102323
TM-BSFB-KBAG-2009-3-BR-1	Versajust	Brazil	Registered	Dec-01-2011	831273704	Jan-13-2015	831273704
TM-BSFB-KBAG-2009-3-CN-1	Versajust	China	Registered	Nov-30-2011	A0027377	Nov-30-2011	1102323
TM-BSFB-KBAG-2009-3-CO-1	Versajust	Colombia	Pending	Nov-29-2011	11-164230		
TM-BSFB-KBAG-2009-3-JP-1	Versajust	Japan	Registered	Nov-30-2011	A0027377	Nov-30-2011	1102323
TM-BSFB-KBAG-2009-3-RU-01	Versajust	Russian Federation	Not Yet Filed	Nov-30-2011	A0027377	Nov-30-2011	1102323
TM-BSFB-KBAG-2009-3-WO-1	Versajust	World Intellectual Property Org. (WIPO)	Registered	Nov-30-2011	A0027377	Nov-30-2011	1102323

Record ID	Country	Title	Status	National Application Number	National Application Date	Application Date	Application Number	Grant Date	Grant Number
BSFB-2002-420-AU	Australia	Slack Adjuster with Wear Reduction	Granted	200476767	Sep-23-2004	200476767	Sep-16-2010	2004276767	
BSFB-2002-420-BR	Brazil	SLACK ADJUSTER WITH WEAR REDUCTION	Granted	PI0414689-1	Sep-23-2004	PI0414689-1	Jan-02-2013	PI0414689-1	
BSFB-2002-420-CA	Canada	SLACK ADJUSTER WITH WEAR REDUCTION	Granted	2,534,290	Sep-23-2004	2,534,290	Dec-08-2015	2,534,290	
BSFB-2002-420-CN	China	SLACK ADJUSTER WITH WEAR REDUCTION	Granted	200480027284	Sep-23-2004	200480027284	Aug-19-2009	ZL200480027284.8	
BSFB-2002-420-IN	India	SLACK ADJUSTER WITH WEAR REDUCTION	Granted	1003CJ/HNP/2006	Sep-23-2004	1003CJ/HNP/2006	Nov-01-2011	248643	
BSFB-2002-420-US	United States of America	SLACK ADJUSTER WITH WEAR REDUCTION	Granted	10/689226	Sep-14-2006	10/689226	May-09-2006	7040465	
BSFB-2003-466-CA-1	Canada	DISC BRAKE LOCATED OUTSIDE WHEEL ENVELOPE	Granted	2159737	Sep-14-2006	2159737	Mar-18-2005	PC/T/US2005/008955	
BSFB-2003-466-MX-1	Mexico	DISC BRAKE LOCATED OUTSIDE WHEEL ENVELOPE	Granted	10/894591	Mar-18-2005	10/894591	Mar-20-2008	2575205	
BSFB-2003-466-US-RCE	United States of America	DISC BRAKE LOCATED OUTSIDE WHEEL ENVELOPE	Granted	10/894591	Mar-18-2005	10/894591	Mar-20-2008	2575205	
BSFB-2004-379-CA	Canada	RAPID TAKE UP AUTOMATIC SLACK ADJUSTER	Pending	2615453	Aug-05-2014	Jun-16-2006	PC/T/US2006/023780	May-04-2010	7708112
BSFB-2004-379-US	United States of America	RAPID TAKE UP AUTOMATIC SLACK ADJUSTER	Granted	11/209413	Aug-23-2005	11/209413	Dec-12-2005	3529888	May-04-2010
BSFB-2004-3-CA	Canada	SPRING BRAKE ACTUATOR WITH MID-LOCATED SPRING	Granted	2,529,888	Dec-15-2005	2,529,888	Oct-26-2011	1789750 B	
BSFB-2004-3-CN	China	SPRING BRAKE ACTUATOR WITH MID-LOCATED SPRING	Granted	10/12313	Dec-14-2005	10/12313	Jul-01-2010	2766992	
BSFB-2004-3-MX	Mexico	SPRING BRAKE ACTUATOR WITH MID-LOCATED SPRING	Granted	2550930	Dec-16-2004	2550930	Feb-24-2008	7489994	
BSFB-2004-3-US-RCE	United States of America	SPRING BRAKE ACTUATOR WITH MID-LOCATED SPRING	Granted	2550930	Dec-16-2004	2550930	Feb-24-2008	7489994	
BSFB-2004-4-CA	Canada	ROD/SEAL BEARING ARRANGEMENT UTILIZING LOCKING FINGERS	Pending	11/182811	Jul-18-2005	11/182811	Jul-18-2005	11/182811	
BSFB-2004-4-MX	Mexico	ROD/SEAL BEARING ARRANGEMENT UTILIZING LOCKING FINGERS	Granted	2552775	Jul-20-2006	2552775	Dec-09-2008	7461907	
BSFB-2004-4-US-RCE	United States of America	ROD/SEAL BEARING ARRANGEMENT UTILIZING LOCKING FINGERS	Granted	2552775	Jul-20-2006	2552775	Dec-09-2008	7461907	
BSFB-2005-11-CA	Canada	ACTUATOR FOR A BRAKE SYSTEM AND METHOD OF MAKING A BRAKE ACTUATOR	Granted	11/187005	Jul-22-2005	11/187005	Mar-18-2008	7343847	
BSFB-2005-11-US	United States of America	ACTUATOR FOR A BRAKE SYSTEM AND METHOD OF MAKING A BRAKE ACTUATOR	Granted	13/956141	Jul-31-2013	13/956141	Oct-13-2015	9156486	
BSFB-2006-16-US-1	United States of America	Biased Double Check Valve for Brake System	Granted	09/761615	Jan-17-2001	09/761615	May-21-2002	6390234	
BSFB-2006-26-US	United States of America	Brake Wear Indicator	Granted	09/589874	Jun-09-2001	09/589874	Jun-08-2002	6335533	
BSFB-2006-29-US	United States of America	Noise Dampening Brake Shoe	Granted	11/056958	Nov-11-2005	11/056958	Aug-05-2008	7407042	
BSFB-2006-63-US-RCE	United States of America	Brake Actuator Mechanism with Overload Protection	Granted	10/987604	Nov-11-2004	10/987604	Dec-26-2006	7152722	
BSFB-2006-64-US	United States of America	Torque Limiting Sleeve Arc Method Of Use	Granted	10/894591	Jul-20-2004	10/894591	Feb-13-2007	7175009	
BSFB-2006-66-US	United States of America	Cam Actuated Drum Brake	Granted	10/894591	Jul-20-2004	10/894591	Feb-13-2007	7175009	
BSFB-2006-89-US	United States of America	Mic Power Spring Brake Actuator Having Fuse Collet Design for Safety	Granted	11/53192	Oct-05-2006	11/53192	Mar-24-2009	7506573	
BSFB-2006-US	United States of America	Brake Actuator Reinforcement and Method of Attaching Same	Granted	11/53192	Sep-19-2006	11/53192	Jun-29-2010	7243884	
BSFB-2007-17-AU-1	Australia	Double Dogleg Wide Stance Brake Shoe Web	Granted	2009271289	Jan-21-2011	Jan-24-2009	PC/T/US2009/048446	Jun-24-2015	2009271289
BSFB-2007-17-CA-1	Canada	Double Dogleg Wide Stance Brake Shoe Web	Granted	2729221	Dec-23-2010	Jun-24-2009	PC/T/US2009/048446	Aug-16-2016	2729221
BSFB-2007-17-CN-1	China	Double Dogleg Wide Stance Brake Shoe Web	Granted	200980128910.5	Jan-18-2011	Jun-24-2009	PC/T/US2009/048446	Nov-13-2013	200980128910.5
BSFB-2007-17-IN-1	India	Double Dogleg Wide Stance Brake Shoe Web	Granted	4944/KOLNP/2010	Dec-24-2010	Jun-24-2009	PC/T/US2009/048446	Apr-05-2019	3108888
BSFB-2007-17-MX-1	Mexico	Double Dogleg Wide Stance Brake Shoe Web	Granted	MX/6/2011/000454	Jan-12-2011	Jun-24-2009	PC/T/US2009/048446	Nov-24-2014	3256240
BSFB-2007-17-RU-1	Russian Federation	Double Dogleg Wide Stance Brake Shoe Web	Granted	2011105105	Feb-17-2011	Jun-24-2009	PC/T/US2009/048446	Nov-24-2014	3256240
BSFB-2007-17-US	United States of America	Double Dogleg Wide Stance Brake Shoe Web	Granted	767/KOLNP/2011	Feb-21-2011	Jun-24-2009	PC/T/US2009/048446	Nov-24-2014	3256240
BSFB-2007-19-IN-1	India	An Automatic Slack Adjuster Anchor Unit with a One-Way Clutch	Granted	2011105105	Feb-21-2011	Jun-24-2009	PC/T/US2009/048446	Nov-24-2014	3256240
BSFB-2007-19-US	Russian Federation	An Automatic Slack Adjuster Anchor Unit with a One-Way Clutch	Granted	2011105105	Feb-21-2011	Jun-24-2009	PC/T/US2009/048446	Nov-24-2014	3256240
BSFB-2007-20-IN-1	India	An Automatic Slack Adjuster Anchor Unit with a One-Way Clutch	Granted	2157/KOLNP/2011	May-24-2011	Jul-28-2008	12/181016	Nov-06-2012	8302744
BSFB-2007-20-RU-1	Russian Federation	Ball Detent Clutch In Automatic Slack Adjuster	Granted	2011128699	Jul-11-2011	Nov-04-2009	PC/T/US2009/63261	Dec-30-2010	3288530
BSFB-2007-20-US	United States of America	Ball Detent Clutch In Automatic Slack Adjuster	Granted	2011128699	Jul-11-2011	Nov-04-2009	PC/T/US2009/63261	May-27-2014	2517570
BSFB-2007-21-US-RE-1	United States of America	Thermal Protection for Disc Brake Components	Granted	14/185076	Feb-20-2014	14/185076	Jul-12-2016	RE466067	
BSFB-2008-11-US-1	United States of America	Integral Light Weight Spring Brake Actuator and Mount	Granted	2009317920	May-16-2011	Mar-12-2010	12/723227	Mar-06-2012	8127903
BSFB-2008-13-AU-3	Australia	Self-Setting Automatic Slack Adjuster with Increased Durability	Granted	2743835	May-16-2011	Nov-04-2009	PC/T/US2009/63248	Feb-05-2015	2009317920
BSFB-2008-13-CA-2	Canada	Self-Setting Automatic Slack Adjuster with Increased Durability	Granted	200980154781.7	Jul-18-2011	Nov-04-2009	PC/T/US2009/63248	Sep-05-2017	2743835
BSFB-2008-13-CN-2	China	Self-Setting Automatic Slack Adjuster with Increased Durability	Granted	2161/KOLNP/2011	May-24-2011	Nov-04-2009	PC/T/US2009/63248	Mar-11-2015	ZL200980154781.7
BSFB-2008-13-IN-2	India	Self-Setting Automatic Slack Adjuster with Increased Durability	Granted	MX/6/2011/0005105	May-13-2011	Nov-04-2009	PC/T/US2009/63248	Jun-23-2020	339195
BSFB-2008-13-MX-2	Mexico	Self-Setting Automatic Slack Adjuster with Increased Durability	Granted	2011124951	Jun-17-2011	Nov-04-2009	PC/T/US2009/63248	Nov-05-2013	314883
BSFB-2008-13-RU-2	Russian Federation	Self-Setting Automatic Slack Adjuster with Increased Durability	Granted	2009317919	May-27-2011	Nov-04-2009	PC/T/US2009/63237	Jun-27-2014	2521484
BSFB-2008-13-US-1	United States of America	Self-Setting Automatic Slack Adjuster with Increased Durability	Granted	2009317919	May-27-2011	Nov-04-2009	PC/T/US2009/63237	Nov-06-2012	8302742
BSFB-2008-16-CA-2	Canada	Automatic Slack Adjuster with Clutch Release Cam	Granted	200980154747	Jul-18-2011	Nov-04-2009	PC/T/US2009/63237	Apr-29-2015	ZL200980154747
BSFB-2008-16-CN-2	China	Automatic Slack Adjuster with Clutch Release Cam	Granted	2180/KOLNP/2011	May-24-2011	Nov-04-2009	PC/T/US2009/63237	Dec-10-2019	327110
BSFB-2008-16-IN-2	India	Automatic Slack Adjuster with Clutch Release Cam	Granted	MX/6/2011/0005104	May-13-2011	Nov-04-2009	PC/T/US2009/63237	Aug-08-2014	2517608
BSFB-2008-16-MX-2	Mexico	Automatic Slack Adjuster with Clutch Release Cam	Granted	2011124930	Jun-17-2011	Nov-04-2009	PC/T/US2009/63237	May-27-2014	2517608
BSFB-2008-16-RU-2	Russian Federation	Automatic Slack Adjuster with Clutch Release Cam	Granted	2011124930	Jun-17-2011	Nov-04-2009	PC/T/US2009/63237	May-27-2014	2517608
BSFB-2008-16-US-1	United States of America	Automatic Slack Adjuster with Clutch Release Cam	Granted	2010126151	Mar-09-2010	Apr-20-2017	2964552	Jun-18-2019	2964552
BSFB-2009-1-AU-2	Australia	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted	2753816	Mar-09-2010	Mar-09-2010	PC/T/US2010/026587	Jun-06-2017	2753816
BSFB-2009-1-CA-3	Canada	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted	2753816	Mar-09-2010	Mar-09-2010	PC/T/US2010/026587	Jun-06-2017	2753816
BSFB-2009-1-CA-2	Canada	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted	2753816	Mar-09-2010	Mar-09-2010	PC/T/US2010/026587	Jun-06-2017	2753816
BSFB-2009-1-DE-2	Germany	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Pending	11 2010 000 218 0	Sep-15-2011	Mar-09-2010	PC/T/US2010/026587		

Record ID	Country	Title	Status	National Application Number	National Application Date	Application Number	Grant Date	Grant Number
BSFB-2009-1-MX-2	Mexico	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted	MX/a/2011/009834	Sep-20-2011	0205687	Aug-28-2015	332769
BSFB-2009-1-MX-D-3	Mexico	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted		Jul-18-2014	0089725	Oct-22-2018	360073
BSFB-2009-1-US-1	United States of America	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted		Mar-20-2009	12/408321	Apr-24-2012	8161614
BSFB-2009-1-US-D-1	United States of America	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted		Aug-24-2011	13/216301	Nov-05-2013	8573371
BSFB-2009-1-US-D-2	United States of America	Air Disk Brake Caliper Pre-Stressing Method and Pre-Stressed Caliper Apparatus	Granted		Aug-24-2011	13/216303	Apr-16-2013	8423191
BSFB-2009-3-CA-1	Canada	Clamping Cam Tube Support	Granted		Nov-28-2011	12759561	Jan-08-2019	2759561
BSFB-2009-3-MX-1	Mexico	Clamping Cam Tube Support	Granted		Dec-08-2011	MX/a/2011/013158	Sep-26-2014	323922
BSFB-2009-3-US-1	United States of America	NON-THEADED METHOD FOR ASSEMBLING A CENTER HOLE PARKING DIAPHRAGM AND ADAPTER PUSH ROD WITH A CLIP AND WASHER	Granted		Dec-08-2010	12/963165	Mar-05-2013	8387926
BSFB-2009-5-CA-1	Canada	Non-Threatened Method for Assembling a Center Hole Parking Diaphragm and Adapter Push Rod with a Clip and Washer	Granted		Mar-10-2011	2733689	Jan-02-2018	2733689
BSFB-2009-5-US-1	United States of America	Non-Threatened Method for Assembling a Center Hole Parking Diaphragm and Adapter Push Rod with a Clip and Washer	Granted		Mar-12-2010	12/733337	Jun-04-2013	8453556
BSFB-2009-9-BR-1	Brazil	High Resolution One-Way Clutch with Graduated Saw-Tooth Engagement for an Automatic Slack Adjuster	Pending	BR112013003629-0	Feb-15-2013			
BSFB-2009-9-CA-1	Canada	High Resolution One-Way Clutch with Graduated Saw-Tooth Engagement for an Automatic Slack Adjuster	Granted	2908439	Feb-14-2013		Apr-24-2018	2808439
BSFB-2009-9-CN-1	China	High Resolution One-Way Clutch with Graduated Saw-Tooth Engagement for an Automatic Slack Adjuster	Granted	201180050342-9	Apr-18-2013		Nov-25-2015	201180050342-9
BSFB-2009-9-IN-1	India	High Resolution One-Way Clutch with Graduated Saw-Tooth Engagement for an Automatic Slack Adjuster	Pending	1289/CH/BNP/2013	Feb-18-2013			
BSFB-2009-9-MX-1	Mexico	High Resolution One-Way Clutch with Graduated Saw-Tooth Engagement for an Automatic Slack Adjuster	Granted	MX/a/2013/0001857	Feb-15-2013		Sep-25-2015	333484
BSFB-2009-9-US-1-RCE	United States of America	High Resolution One-Way Clutch with Graduated Saw-Tooth Engagement for an Automatic Slack Adjuster	Granted		Aug-18-2010	12/858638	Dec-10-2013	8602188
BSFB-2010-2-US-2-RCE	United States of America	Snag-in-Center Seal Bushing	Granted		Jun-17-2010	12/812951	Aug-09-2015	9400267
BSFB-2010-3-CA-1	Canada	Parking Piston Direct Connector to APR Rod	Granted	2250123	Mar-26-2014		Apr-02-2019	2850123
BSFB-2010-3-MX-1	Mexico	PARKING PISTON DIRECT CONNECTION TO APR ROD	Granted	MX2014003604	Aug-16-2012		Feb-17-2017	MX345826
BSFB-2010-3-US-1	United States of America	Parking Piston Direct Connection to APR Rod	Granted		Sep-28-2011	13/247372	Sep-19-2017	9765835
BSFB-2010-4-AU-1	Australia	Disc Brake Pad Mounting and Retention System and Method	Granted	2013343346	Nov-05-2013		May-18-2017	2013343346
BSFB-2010-4-CA-1	Canada	Disc Brake Pad Mounting and Retention System and Method	Granted	22890221	Nov-05-2013		Aug-05-2020	28980021
BSFB-2010-4-MX-1	Mexico	Disc Brake Pad Mounting and Retention System and Method	Granted	MX/a/2015/005835	Nov-05-2013		Jan-16-2019	362409
BSFB-2010-4-US-1	United States of America	Disc Brake Pad Mounting and Retention System and Method	Granted		Nov-09-2012	13/673404	Aug-04-2015	9097304
BSFB-2011-11-US-1	United States of America	Non-Pressure Plate Stone Shield with Energy Absorbing Lugs, and Pushrod Shield for Wetted Claws	Granted		Mar-14-2012	13/420087	Sep-15-2015	9132820
BSFB-2011-1-CN-1	China	Parking brake piston for a parking brake chamber	Granted	201280057854-2	Aug-16-2012		Dec-14-2016	201280057854-2
BSFB-2011-1-IN-2	India	Parking Brake Piston For A Parking Brake Chamber	Pending	908/KONP/2014				
BSFB-2011-1-US-1-RCE	United States of America	Parking Brake Piston for a Parking Brake Chamber	Granted		Sep-28-2011	13/247449	Apr-14-2015	9004236
BSFB-2011-3-IN-1	India	Internally supplied clean dry air and externally vented parking brake chamber	Pending	911/KONP/2014	Apr-25-2014			
BSFB-2011-3-US-1	United States of America	Internally supplied clean dry air and externally vented parking brake chamber	Granted		Sep-28-2011	13/247686	May-06-2014	8714318
BSFB-2011-4-US-1	United States of America	METHOD AND SYSTEM FOR EVALUATING CHARACTERISTICS OF AN SCM	Granted		Jul-21-2011	13/188158	May-13-2014	8725450
BSFB-2011-5-US-1	United States of America	ADB adjuster for improved turning clearance	Granted		Nov-30-2012	13/691241	Jul-22-2014	8783427
BSFB-2011-6-US-1	United States of America	Turbo Drum for Drum Brakes	Granted		Oct-17-2012	13/654031	Apr-26-2016	9322446
BSFB-2011-7-AU-1	Australia	Hinged Table Brake Shoe	Granted	2014274303	May-28-2014		Nov-10-2016	2014274303
BSFB-2011-7-BR-1	Brazil	Hinged Table Brake Shoe	Pending	1120152867-3				
BSFB-2011-7-CA-1	Canada	Hinged Table Brake Shoe	Granted	29100987	May-28-2014		Dec-19-2017	29100987
BSFB-2011-7-CN-1	China	Hinged Table Brake Shoe	Granted	201480030504-6	May-28-2014		Nov-21-2017	10542727
BSFB-2011-7-IN-1	India	Hinged Table Brake Shoe	Pending	12284/CH/BNP/2015				
BSFB-2011-7-MX-1	Mexico	Hinged Table Brake Shoe	Granted	MX/a/2015/015501	May-28-2014		Jul-01-2019	366167
BSFB-2011-7-RU-1	Russian Federation	BRAKE SHOE AND BRAKING UNIT	Granted	2011484889	May-28-2014		Aug-18-2017	2628355
BSFB-2011-7-US-1	United States of America	Hinged Table Brake Shoe	Granted		May-29-2013	13/904323	Jun-23-2015	9062728
BSFB-2011-8-US-1	United States of America	Spring Brake Actuator and Method for Making a Spring Brake Actuator	Granted		May-02-2013	13/875979	Jan-17-2017	9546700
BSFB-2012-13-AU-1	Australia	Brake Pad Retention Device and Method	Granted	20143297041	Jul-11-2014		Jan-27-2017	20143297041
BSFB-2012-13-CA-1	Canada	Brake Pad Retention Device and Method	Pending	2918024				
BSFB-2012-13-US-1	United States of America	Brake Pad Retention Device and Method	Granted		Jul-12-2014	13/940960	May-17-2016	9341220
BSFB-2012-15-AU-1	Australia	Heavy duty stamped splicer	Granted	2014306707	Aug-13-2014		Feb-09-2017	2014306707
BSFB-2012-15-BR-1	Brazil	Heavy duty stamped splicer	Pending	112016002631-4				
BSFB-2012-15-CA-1	Canada	HEAVY DUTY STAMPED SPLIFER	Granted	2920726	Aug-13-2014		Jan-16-2018	2920726
BSFB-2012-15-CN-1	China	Heavy duty stamped splicer	Granted	1120140045409-3	Aug-13-2014		Jul-20-2018	105492794
BSFB-2012-15-DE-1	Germany	Heavy Duty Stamped Brake Splicer Geometry	Pending	112014003762-1				

Record ID	Country	Title	Status	National Application Number	National Application Date	Application Date	Application Number	Grant Date	Grant Number
BSEB-2012-15-IN-1	India	Heavy Duty Stamped Brake Spiger Geometry	Pending	201647004658	Aug-13-2014	PC/T/US2014/050812	Aug-13-2014	Nov-25-2015	369839
BSEB-2012-15-MX-1	Mexico	Heavy Duty Stamped Brake Spiger Geometry	Granted	MX/9/2016/001595	Aug-13-2014	PC/T/US2014/050812	Aug-13-2014	Nov-07-2017	RU2634854
BSEB-2012-15-RU-1	Russian Federation	BRAKE SPIDER FOR DUMU BRAKE AND BRUM BRAKE	Granted	2015021289	Aug-13-2014	PC/T/US2014/050812	Aug-13-2014	Sep-15-2015	9133898
BSEB-2012-15-US-1	United States of America	Heavy Duty Stamped Spiger	Granted	2015021289	Aug-13-2014	PC/T/US2014/050812	Aug-13-2014	Sep-15-2015	9133898
BSEB-2012-16-US-1	United States of America	Bracket Assembly for Mounting a Brake Assembly and Brake Actuator	Granted	2013302855	Jul-09-2014	14/372179	Aug-13-2013	Apr-05-2016	9307703
BSEB-2012-17-AU-1	Australia	Disc Brake Pad Mounting and Retention System and Method	Pending	2013302855	Aug-13-2013	PC/T/US2013/54679	Aug-13-2013	May-26-2020	2881866
BSEB-2012-17-BR-1	Brazil	Disc Brake Pad Mounting and Retention System and Method	Pending	112015002995-7	Aug-13-2013	PC/T/US2013/54679	Aug-13-2013	May-26-2020	2881866
BSEB-2012-17-CA-1	Canada	Disc Brake Pad Mounting and Retention System and Method	Granted	2881866	Aug-13-2013	PC/T/US2013/54679	Aug-13-2013	May-26-2020	2881866
BSEB-2012-17-CN-1	China	Disc Brake Pad Mounting and Retention System and Method	Granted	201380043771.2	Aug-13-2013	PC/T/US2013/54679	Aug-13-2013	May-26-2020	2881866
BSEB-2012-17-IN-1	India	Disc Brake Pad Mounting and Retention System and Method	Pending	1594/KOINP/2015	Aug-13-2013	PC/T/US2013/54679	Aug-13-2013	May-26-2020	2881866
BSEB-2012-17-RU-1	Russian Federation	Disc Brake Pad Mounting and Retention System and Method	Granted	2015109111	Aug-13-2013	PC/T/US2013/54679	Aug-13-2013	May-26-2020	2881866
BSEB-2012-18-AU-1	Australia	Disc Brake Pad Mounting and Retention System and Method	Granted	2013302856	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	Dec-10-2016	2604361
BSEB-2012-18-BR-1	Brazil	Disc Brake Pad Mounting and Retention System and Method	Granted	112015003064.5	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	May-18-2017	2013302856
BSEB-2012-18-CA-1	Canada	Disc Brake Pad Mounting and Retention System and Method	Pending	2881840	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	May-18-2017	2013302856
BSEB-2012-18-CN-1	China	Disc Brake Pad Mounting and Retention System and Method	Granted	2881840	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	May-18-2017	2013302856
BSEB-2012-18-DE-01	Germany	Disc Brake Pad Mounting and Retention System and Method	Not Yet Filed	2926039	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	May-18-2017	2013302856
BSEB-2012-18-DE-02	Germany	Disc Brake Pad Mounting and Retention System and Method	Not Yet Filed	201480054708.3	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	May-18-2017	2013302856
BSEB-2012-18-IN-1	India	Disc Brake Pad Mounting and Retention System and Method	Pending	607/KOINP/2015	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	May-18-2017	2013302856
BSEB-2012-18-IN-2	India	Disc Brake Pad Mounting and Retention System and Method	Pending	201637010581	Mar-28-2016	PC/T/US2014/052016	Aug-21-2014	May-25-2017	2620395
BSEB-2012-18-RU-1	Russian Federation	SYSTEM AND METHOD OF DISC BRAKE MOUNTING AND FIXATION	Granted	2015109113	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	Sep-24-2013	8540061
BSEB-2012-18-US-1	United States of America	Disc Brake Pad Mounting and Retention System and Method	Granted	2016117171	Aug-13-2013	PC/T/US2013/054680	Aug-13-2013	Feb-24-2015	8960381
BSEB-2012-18-US-CP-1	United States of America	Disc Brake Pad Mounting and Retention System and Method	Granted	2013302858	Aug-13-2013	PC/T/US2013/54684	Aug-13-2013	Feb-24-2015	8960381
BSEB-2012-19-AU-1	Australia	Disc Brake Pad Mounting and Retention System and Method	Granted	112015003068.8	Aug-13-2013	PC/T/US2013/54684	Aug-13-2013	May-18-2017	AU201302858
BSEB-2012-19-BR-1	Brazil	Disc Brake Pad Mounting and Retention System and Method	Pending	112015003068.8	Aug-13-2013	PC/T/US2013/54684	Aug-13-2013	May-18-2017	AU201302858
BSEB-2012-19-CA-1	Canada	Disc Brake Pad Mounting and Retention System and Method	Granted	2,881,870	Aug-13-2013	PC/T/US2013/54684	Aug-13-2013	Apr-28-2020	2881870
BSEB-2012-19-CN-1	China	Disc Brake Pad Mounting and Retention System and Method	Granted	201380043774.6	Aug-13-2013	PC/T/US2013/54684	Aug-13-2013	May-31-2017	104886633
BSEB-2012-19-IN-1	India	Disc Brake Pad Mounting and Retention System and Method	Granted	595/KOINP/2015	Aug-13-2013	PC/T/US2013/54684	Aug-13-2013	May-25-2017	2620466
BSEB-2012-19-RU-1	Russian Federation	SYSTEM AND METHOD OF DISC BRAKE MOUNTING AND FIXATION	Pending	2015109112	Aug-13-2013	PC/T/US2013/54684	Aug-13-2013	Oct-01-2018	2018302854
BSEB-2012-19-US-1	United States of America	Disc Brake Pad Mounting and Retention System and Method	Granted	2013302854	Aug-13-2013	PC/T/US2013/54678	Aug-13-2013	May-18-2017	2013302854
BSEB-2012-19-US-2	United States of America	Disc Brake Pad Mounting and Retention System and Method	Granted	112015003070.0	Aug-13-2013	PC/T/US2013/54678	Aug-13-2013	May-18-2017	2013302854
BSEB-2012-1-RR-1	Brazil	Disc Brake Pad Mounting and Retention System and Method	Pending	2881845	Aug-13-2013	PC/T/US2013/54678	Aug-13-2013	May-18-2017	2013302854
BSEB-2012-1-CA-1	Canada	Disc Brake Pad Mounting and Retention System and Method	Pending	2881845	Aug-13-2013	PC/T/US2013/54678	Aug-13-2013	May-18-2017	2013302854
BSEB-2012-1-CN-1	China	Disc Brake Pad Mounting and Retention System and Method	Granted	201380043772.7	Aug-13-2013	PC/T/US2013/54678	Aug-13-2013	Jan-12-2018	201380043772.7
BSEB-2012-1-IN-1	India	Disc Brake Pad Mounting and Retention System and Method	Pending	593/KOINP/2015	Aug-13-2013	PC/T/US2013/54678	Aug-13-2013	Nov-24-2017	9197467
BSEB-2012-1-RU-1	Russian Federation	SYSTEM AND METHOD OF DISC BRAKE MOUNTING AND FIXATION	Granted	2015109119	Aug-13-2013	PC/T/US2013/54678	Aug-13-2013	Oct-26-2017	2014332418
BSEB-2012-1-US-02	United States of America	Disc Brake Pad Mounting and Retention System and Method	Granted	2014332418	Aug-13-2013	PC/T/US2014/056450	Sep-19-2014	Oct-26-2017	2014332418
BSEB-2012-1-US-1	United States of America	Disc Brake Pad Mounting and Retention System and Method	Pending	2925749	Sep-19-2014	PC/T/US2014/056450	Sep-19-2014	Oct-26-2017	2014332418
BSEB-2012-1-US-1 HCE	United States of America	Rotary Level Disc Brake Caliper with Rack and Pinion Mechanism	Pending	20144004137.8	Sep-19-2014	PC/T/US2014/056450	Sep-19-2014	Oct-26-2017	20144004137.8
BSEB-2012-1-US-C1	United States of America	Rotary Level Disc Brake Caliper with Rack and Pinion Mechanism	Granted	MX/9/2016/004417	Sep-19-2014	PC/T/US2014/056450	Sep-19-2014	Nov-27-2019	369975
BSEB-2012-15-US-1	United States of America	ROTARY LEVER DISC BRAKE CALIPER WITH RACK AND PINION MECHANISM	Granted	MX/9/2016/004417	Sep-19-2014	PC/T/US2014/056450	Sep-19-2014	Nov-27-2019	369975
BSEB-2012-21-US-1	United States of America	Rotary Level Disc Brake Caliper with Rack and Pinion Mechanism	Granted	2015339654	May-08-2017	PC/T/US2015/057048	Oct-23-2015	Jan-31-2019	2015339654
BSEB-2012-23-US-1	United States of America	Brake Carrier Mounting Arrangement	Granted	BR12017008224.1	Apr-20-2017	PC/T/US2015/057048	Oct-23-2015	Jan-31-2019	2015339654
BSEB-2012-7-US-1	United States of America	Nested Composite Brake Drum	Granted	2965837	Apr-25-2017	PC/T/US2015/057048	Oct-23-2015	Jul-31-2018	2965837
BSEB-2013-16-US-1	United States of America	Brake Disc and Mounting Arrangement for a Brake Disc	Granted	20180063421.1	May-22-2017	PC/T/US2015/057048	Oct-23-2015	Feb-05-2019	20180063421.1
BSEB-2013-9-US-1	United States of America	Plug Retention System for a Brake Actuator	Granted	DEL12015004926	Apr-28-2017	PC/T/US2015/057048	Oct-23-2015	Aug-13-2020	112015004926
BSEB-2014-15-US-1	United States of America	Parking Brake Actuator with Internal Flow Control	Granted	201547018503	May-26-2017	PC/T/US2015/057048	Oct-23-2015	Jul-31-2018	2965837
BSEB-2014-18-AU-01	Australia	Drum Brake S-cam having Offset Followers	Granted	BR12017008224.1	Apr-20-2017	PC/T/US2015/057048	Oct-23-2015	Jan-31-2019	2015339654
BSEB-2014-18-BR-01	Brazil	Drum Brake S-cam having Offset Followers	Pending	2965837	Apr-25-2017	PC/T/US2015/057048	Oct-23-2015	Jul-31-2018	2965837
BSEB-2014-18-CA-01	Canada	Drum Brake S-cam having Offset Followers	Granted	20180063421.1	May-22-2017	PC/T/US2015/057048	Oct-23-2015	Feb-05-2019	20180063421.1
BSEB-2014-18-CN-01	China	Drum Brake S-cam having Offset Followers	Granted	DEL12015004926	Apr-28-2017	PC/T/US2015/057048	Oct-23-2015	Aug-13-2020	112015004926
BSEB-2014-18-DE-01	Germany	Drum Brake S-cam having Offset Followers	Granted	201547018503	May-26-2017	PC/T/US2015/057048	Oct-23-2015	Jul-31-2018	2965837
BSEB-2014-18-IN-01	India	Drum Brake S-cam having Offset Followers	Pending	MX/9/2017/005551	May-16-2017	PC/T/US2015/057048	Oct-23-2015	Jul-31-2018	2965837
BSEB-2014-18-MX-01	Mexico	Drum Brake S-cam having Offset Followers	Pending	201717046	May-16-2017	PC/T/US2015/057048	Oct-23-2015	Jul-31-2018	2965837
BSEB-2014-18-RU-01	Russian Federation	Drum Brake S-cam having Offset Followers	Granted	11201700633.2	Jan-12-2017	PC/T/US2015/028021	Apr-28-2015	Aug-30-2016	9428157
BSEB-2014-18-US-1	United States of America	High resolution one-way clutch using graduated engagement in a radial arrangement	Pending	11201700633.2	Jan-12-2017	PC/T/US2015/028021	Apr-28-2015	Aug-30-2016	9428157
BSEB-2014-1-RR-01	Brazil	High resolution one-way clutch using graduated engagement in a radial arrangement	Pending	11201700633.2	Jan-12-2017	PC/T/US2015/028021	Apr-28-2015	Aug-30-2016	9428157
BSEB-2014-1-CN-01	China	High resolution one-way clutch using graduated engagement in a radial arrangement	Pending	201580048873.2	Mar-09-2017	PC/T/US2015/028021	Apr-28-2015	Aug-30-2016	9428157

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BSEB-2014-1-IN-01	India	High resolution one-way Clutch using graduated engagement in a radial arrangement	Pending	201737000904	Jan-09-2017	Apr-28-2015	PC7/US2015/028021		
BSEB-2014-1-US-1	United States of America	High resolution one-way Clutch using graduated engagement in a radial arrangement	Granted			Jul-16-2014	14/333012	Jun-07-2016	9360069
BSEB-2014-23-AU-01	Australia	Drum Brake S-Cam Having Offset Cam Followers	Granted	2015339655	May-19-2017	Oct-23-2015	PC7/US2015/057051	Jan-31-2019	2015339655
BSEB-2014-23-BR-01	Brazil	Drum Brake S-Cam Having Offset Cam Followers	Granted	1120170082117-9	Apr-20-2017	Oct-23-2015	PC7/US2015/057051		
BSEB-2014-23-CA-01	Canada	Drum Brake S-Cam Having Offset Cam Followers	Pending	2965805	Apr-25-2017	Oct-23-2015	PC7/US2015/057051	Jul-03-2018	2965805
BSEB-2014-23-CN-01	China	Drum Brake S-Cam Having Offset Cam Followers	Granted	201580063308.3	May-22-2017	Oct-23-2015	PC7/US2015/057051	Apr-12-2019	107110253
BSEB-2014-23-DE-01	Germany	Drum Brake S-Cam Having Offset Cam Followers	Pending	DEL12015004913	Apr-28-2017	Oct-23-2015	PC7/US2015/057051		
BSEB-2014-23-IN-01	India	Drum Brake S-Cam Having Offset Cam Followers	Pending	201747018547	May-26-2017	Oct-23-2015	PC7/US2015/057051		
BSEB-2014-23-MX-01	Mexico	Drum Brake S-Cam Having Offset Cam Followers	Pending	MX/6/2017/005549	Apr-27-2017	Oct-23-2015	PC7/US2015/057051		
BSEB-2014-23-RU-01	Russian Federation	Drum Brake S-Cam Having Offset Cam Followers	Granted	2017118979	May-31-2017	Nov-01-2014	PC7/US2015/057051	Jun-14-2016	9365194
BSEB-2014-23-US-1	United States of America	Drum Brake S-Cam Having Offset Cam Followers	Granted	2015339656	May-19-2017	Oct-23-2015	PC7/US2015/057052	Jan-10-2019	2015339656
BSEB-2014-24-BR-01	Brazil	Brake Shoes for Drum Brake Having Offset Cam Followers	Pending	112017008299.3	Apr-20-2017	Oct-23-2015	PC7/US2015/057052		
BSEB-2014-24-CA-01	Canada	Brake Shoes for Drum Brake Having Offset Cam Followers	Granted	2965822	Apr-25-2017	Oct-23-2015	PC7/US2015/057052	Sep-25-2018	2965822
BSEB-2014-24-CN-01	China	Brake Shoes for Drum Brake Having Offset Cam Followers	Granted	201580063420.7	May-22-2017	Oct-23-2015	PC7/US2015/057052	Jun-04-2019	107110254
BSEB-2014-24-DE-01	Germany	Brake Shoes for Drum Brake Having Offset Cam Followers	Pending	112015004937.1	Apr-28-2017	Oct-23-2015	PC7/US2015/057052		
BSEB-2014-24-IN-01	India	Brake Shoes for Drum Brake Having Offset Cam Followers	Pending	201747018572	May-26-2017	Oct-23-2015	PC7/US2015/057052		
BSEB-2014-24-MX-01	Mexico	Brake Shoes for Drum Brake Having Offset Cam Followers	Pending	MX/6/2017/005548	Apr-27-2017	Oct-23-2015	PC7/US2015/057052		
BSEB-2014-24-RU-01	Russian Federation	Brake Shoes for Drum Brake Having Offset Cam Followers	Granted	2017118980	May-31-2017	Nov-01-2014	PC7/US2015/057052	Oct-25-2018	2670880
BSEB-2014-24-US-1	United States of America	Brake Shoes for Drum Brake Having Offset Cam Followers	Granted	2978281	Aug-30-2017	Feb-22-2016	PC7/US2016/018908	Dec-06-2016	9512891
BSEB-2014-27-MX-01	Mexico	Brake Disc Mounting Arrangement	Pending	MX/6/2017/011367	Sep-04-2017	Jul-07-2015	14/782813	Jul-18-2017	9708110
BSEB-2014-27-US-2	United States of America	Brake Disc Mounting Arrangement	Granted						
BSEB-2014-31-AU-01	Australia	Disc Brake Pad Retention System and Mounting Method	Granted	20163235731	Sep-19-2017	Mar-30-2016	PC7/US2016/023002	Mar-05-2020	20163235731
BSEB-2014-31-CA-01	Canada	Disc Brake Pad Retention System and Mounting Method	Pending	2980199	Sep-18-2017	Mar-30-2016	PC7/US2016/023002		
BSEB-2014-31-MX-01	Mexico	Disc Brake Pad Retention System and Mounting Method	Pending	MX/6/2017/012292	Sep-25-2017	Mar-30-2016	PC7/US2016/023002		
BSEB-2014-31-US-1	United States of America	Disc Brake Pad Retention System and Mounting Method	Granted			Jul-28-2015	14/664067	Aug-08-2017	9726243
BSEB-2014-34-US-1	United States of America	Rigid Bracket Assembly for Mounting a Brake Assembly and Brake Actuator	Granted			Jan-09-2017	15/401363	Feb-21-2017	9574626
BSEB-2014-34-US-2	United States of America	Rigid Bracket Assembly for Mounting a Brake Assembly and Brake Actuator	Granted			Dec-10-2015	PC7/US2015/065004	Oct-02-2018	10088000
BSEB-2014-4-CA-01	Canada	APPARATUS AND METHOD FOR IMPACT FORMING A COTTER PIN	Pending	2970496	Jun-21-2017	Dec-10-2015	PC7/US2015/065004	Aug-08-2017	9724809
BSEB-2014-4-US-1	United States of America	APPARATUS AND METHOD FOR IMPACT FORMING A COTTER PIN	Granted			Jul-17-2015	14/802669	Oct-01-2018	10428883
BSEB-2015-10-US-1	United States of America	Drum Brake Assembly Configured to Reduce Audible Noise During Braking	Granted			Jan-29-2018	15/881829	Aug-28-2018	10060487
BSEB-2015-12-US-02	United States of America	Noise Dampening Brake Shoe for a Drum Brake	Granted			May-10-2017	2966900		
BSEB-2015-16-AU-01	Australia	Spring Loaded Plunger for Brake Pad Retention	Pending	2017225663	May-10-2017	May-10-2017	2017225663		
BSEB-2015-16-CA-01	Canada	Spring Loaded Plunger for Brake Pad Retention	Pending			May-10-2016	15/152131	Apr-10-2018	9939033
BSEB-2015-16-US-01	United States of America	Baseed Plunger Arrangement for a Brake Pad Retention System	Granted			Oct-20-2016	15/298826	Jan-15-2019	10180167
BSEB-2015-17-US-1	United States of America	BRAKE ASSEMBLY APPARATUS FOR A VEHICLE BRAKING SYSTEM	Granted			Nov-09-2016	PC7/US2016/061124		
BSEB-2015-18-AU-01	Australia	DISC BRAKE AND SET OF BRAKE PADS	Pending	2016354121	Apr-27-2018	Feb-27-2017	US2017019616		
BSEB-2015-18-CA-01	Canada	DISC BRAKE AND SET OF BRAKE PADS	Pending	3005196	Aug-10-2018	Nov-09-2016	PC7/US2016/061124		
BSEB-2015-18-CA-02	Canada	DISC BRAKE AND SET OF BRAKE PADS	Pending	3015796	Aug-24-2018	Feb-27-2017	US2017019616	Jul-31-2018	10036437
BSEB-2015-18-US-03	United States of America	Disc Brake and Set of Brake Pads	Granted			Jun-20-2018	16/013225	Nov-19-2019	10480600
BSEB-2015-19-BR-01	Brazil	DISC BRAKE AND SET OF BRAKE PADS	Pending			Nov-09-2016	PC7/US2016/061105		
BSEB-2015-19-CN-01	China	DISC BRAKE AND SET OF BRAKE PADS	Pending			Nov-09-2016	PC7/US2016/061105		
BSEB-2015-19-EP-01	European Patent Office (EPO)	DISC BRAKE AND SET OF BRAKE PADS	Pending	2016864902	Jun-12-2018	Nov-09-2016	PC7/US2016/061105		
BSEB-2015-19-RU-01	Russian Federation	DISC BRAKE AND SET OF BRAKE PADS	Pending	2018121231	Jun-13-2018	Nov-09-2016	PC7/US2016/061105		
BSEB-2015-22-CA-01	Canada	Hybrid Cam Bracket	Pending	3068478	Dec-23-2018	Jul-18-2018	PC7/US2018/042626		
BSEB-2015-22-DE-01	Germany	Hybrid Cam Bracket	Pending	11201800377.1	Jan-15-2020	Jul-24-2017	15/657763	Oct-01-2019	10428887
BSEB-2015-22-US-01	United States of America	Hybrid Structural Apparatus for a Vehicle Air Braking System	Granted			Sep-01-2016	PC7/US2016/049872	Apr-09-2020	2016517850
BSEB-2015-2-AU-01	Australia	WEAR OPTIMIZED PAD DESIGN	Granted	2016317850	Mar-05-2018	Feb-08-2018	PC7/US2018/017432		
BSEB-2015-2-AU-03	Australia	WEAR OPTIMIZED PAD DESIGN	Pending	2018217707	Aug-23-2019	Sep-01-2016	PC7/US2016/049872		
BSEB-2015-2-CA-01	Canada	WEAR OPTIMIZED PAD DESIGN	Pending	2997351	Mar-02-2018	Feb-08-2018	PC7/US2018/017432		
BSEB-2015-2-CA-03	Canada	WEAR OPTIMIZED PAD DESIGN	Pending	3052991	Aug-07-2019	Sep-03-2015	14/844813	Mar-28-2017	96605721
BSEB-2015-2-US-01	United States of America	Wear Optimized Pad Design	Granted			Feb-03-2017	15/423953	Feb-20-2018	9897152
BSEB-2015-2-US-02	United States of America	Wear Optimized Pad Design	Granted			Aug-23-2016	US20160408131	May-22-2018	9976610
BSEB-2015-2-US-03	United States of America	Wear Optimized Pad Design	Granted	2994431	Jan-31-2018	Aug-25-2015	14/835206	Jul-11-2017	9701294
BSEB-2015-3-CA-01	Canada	PULL-TYPE DOUBLE DIAPHRAGM SPRING BRAKE ACTUATOR	Granted			Apr-10-2019	16/380366		
BSEB-2015-4-US-02	United States of America	Electric Actuator for S-Cam Brake	Pending			May-26-2016	15/164983		
BSEB-2015-4-US-1	United States of America	Electric Actuator for S-Cam Brake	Pending			Sep-09-2015	14/849333	Nov-29-2016	9505514
BSEB-2015-5-US-1	United States of America	Wedge Spring Clip	Granted						

Record ID	Country	Title	Status	National Application Number	National Application Date	Application Number	Grant Date	Grant Number
BFSB KBAG-2008-16-PR-1	Poland	Automatic Slack Adjuster with Clutch Release Cam	Granted		Nov-04-2009		Jul-16-2014	2352931
BFSB KBAG-2010-16-TR-1	Turkey	Automatic Slack Adjuster with Clutch Release Cam	Granted		Nov-04-2009		Jul-16-2014	2352931
BFSB KBAG-2010-3-CN-1	China	Parking Brakes Direct Connection to APR Rod	Granted	201280057842 X	Aug-16-2012	PCT/US2012/51061	Oct-26-2016	201280057842 X
BFSB KBAG-2010-3-DE-1	Germany	Parking Brakes Direct Connection to APR Rod	Granted		Aug-16-2012	PCT/US2012/51061	Feb-26-2020	2760715
BFSB KBAG-2010-3-EP-1	European Patent Office (EPO)	Parking Brakes Direct Connection to APR Rod	Granted	12835298.6	Aug-16-2012	PCT/US2012/51061		
BFSB KBAG-2010-3-NI-1	Ireland	Parking Brakes Direct Connection to APR Rod	Pending	906/KOJ/P/2014	Aug-16-2012	PCT/US2012/51061	May-19-2019	1979046
BFSB KBAG-2010-3-KR-01	Korea (South)	Parking Brakes Direct Connection to APR Rod	Granted	10-2014-2011454	Aug-16-2012	PCT/US2012/51061		
BFSB KBAG-2010-4-EP-1	European Patent Office (EPO)	Disc Brake Pad Mounting and Retention System and Method	Pending	13852569.6	Nov-05-2013	PCT/US2013/068570		
BFSB KBAG-2011-11-DE-1	Germany	Non-Pressure Plate Stone Shield with Energy Absorbing Lugs	Granted		Mar-13-2013	13158890.7	Nov-25-2015	602013003944.5
BFSB KBAG-2011-11-EP-1	European Patent Office (EPO)	Non-Pressure Plate Stone Shield with Energy Absorbing Lugs	Granted		Mar-13-2013	13158890.7	Nov-25-2015	602013003944.5
BFSB KBAG-2011-11-FR-1	France	Non-Pressure Plate Stone Shield with Energy Absorbing Lugs	Granted		Mar-13-2013	13158890.7	Nov-25-2015	602013003944.5
BFSB KBAG-2011-11-TR-1	Turkey	Non-Pressure Plate Stone Shield with Energy Absorbing Lugs	Granted		Mar-13-2013	13158890.7	Nov-25-2015	602013003944.5
BFSB KBAG-2011-3-DE-01	Germany	Internally supplied clean dry air and externally vented parking brake chamber	Granted		Aug-16-2012	PCT/US2012/51054	Oct-10-2018	2760719
BFSB KBAG-2011-3-EP-1	European Patent Office (EPO)	Internally supplied clean dry air and externally vented parking brake chamber	Granted	12835549.2	Aug-16-2012	PCT/US2012/51054	Oct-10-2018	2760719
BFSB KBAG-2011-5-EP-1	European Patent Office (EPO)	ADB adjuster for improved brake pad to rotor running clearance	Granted		Nov-21-2013	131193873.0	Jul-08-2015	2738443
BFSB KBAG-2011-5-GB-1	United Kingdom	ADB adjuster for improved brake pad to rotor running clearance	Granted		Nov-21-2013	131193873.0	Jul-08-2015	2738443
BFSB KBAG-2011-6-BR-1	Brazil	Turbo Drum for Drum Brakes	Pending	BR112015008320-0	Oct-16-2013			
BFSB KBAG-2012-13-EP-1	European Patent Office (EPO)	Turbo Drum for Drum Brakes	Pending	13846980.4	Oct-16-2013	PCT/US2013/065204		
BFSB KBAG-2012-13-EP-1	European Patent Office (EPO)	Brake Pad Retention Device and Method	Pending	14823351.3	Jul-11-2014	PCT/US2014/065333		
BFSB KBAG-2012-17-AT-01	Austria	Disc Brake Pad Mounting and Retention System and Method	Not Yet Filed					
BFSB KBAG-2012-17-BE-01	Belgium	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-CH-01	Switzerland	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-CZ-01	Czech Republic	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-DE-01	Germany	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-DK-01	Denmark	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-EE-01	Estonia	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-EP-1	European Patent Office (EPO)	Disc Brake Pad Mounting and Retention System and Method	Granted	13180629.1	Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-ES-01	Spain	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-FR-01	France	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-GB-01	United Kingdom	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-GR-01	Gulf Cooperation Council (GCC)	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-15-2013	GCC/P/2013/25160	Dec-31-2017	GC0006680
BFSB KBAG-2012-17-HK-1	Hong Kong	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-HU-01	Hungary	Disc Brake Pad Mounting and Retention System and Method	Granted		Oct-13-2013	15110108.1	Jan-18-2019	1209473
BFSB KBAG-2012-17-IT-01	Italy	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-KR-01	Korea (South)	Disc Brake Pad Mounting and Retention System and Method	Pending	1020157006486	Aug-13-2013	PCT/US2013/54679	Mar-21-2018	2698554
BFSB KBAG-2012-17-LT-01	Lithuania	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-LV-01	Latvia	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-MK-01	Macedonia	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-MX-2	Mexico	Disc Brake Pad Mounting and Retention System and Method	Pending	MX/6/2015/002096				
BFSB KBAG-2012-17-NL-01	Netherlands	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-PL-01	Poland	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-PT-01	Portugal	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-RO-01	Romania	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-SE-01	Sweden	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-SI-01	Slovenia	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-SK-01	Slovakia	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-TA-2	Turkey	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-16-2013	13180629.1	Mar-21-2018	2698554
BFSB KBAG-2012-17-TR-01	South Africa	Disc Brake Pad Mounting and Retention System and Method	Granted	2015/012766	Aug-13-2013	PCT/US2013/54679	Apr-24-2019	2015/012766
BFSB KBAG-2012-18-AT-01	Austria	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-BE-01	Belgium	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-CH-01	Switzerland	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-CZ-01	Czech Republic	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-DE-01	Germany	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-DK-01	Denmark	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-EP-1	European Patent Office (EPO)	Disc Brake Pad Mounting and Retention System and Method	Granted	13829676.9	Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-EP-2	European Patent Office (EPO)	Disc Brake Pad Mounting and Retention System and Method	Granted	14880689.2	Aug-13-2014	PCT/US2014/052016	Sep-30-2020	3052829
BFSB KBAG-2012-18-ES-01	Spain	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-FI-01	Finland	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-FR-01	France	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-GB-01	United Kingdom	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-HU-01	Greece	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552
BFSB KBAG-2012-18-HR-01	Hungary	Disc Brake Pad Mounting and Retention System and Method	Granted		Aug-13-2013	PCT/US2013/054680	Nov-25-2020	2885552

Record ID	Country	Title	Status	National Application Number	National Application Date	Application Date	Application Number	Grant Date	Grant Number
BSEB KBAG-2012-18-IT-01	Italy	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-18-NU-01	Netherlands	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-18-PL-01	Poland	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-18-PT-01	Portugal	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-18-RO-01	Romania	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-18-SE-01	Sweden	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-18-SK-01	Slovakia	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-18-TR-01	Turkey	Disc Brake Pad Mounting and Retention System and Method	Granted						
BSEB KBAG-2012-1-EP-1	European Patent Office (EPO)	Brake Carrier Mounting Arrangement	Pending	14880462.4					
BSEB KBAG-2015-18-AE-01	United Arab Emirates	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-AE-02	United Arab Emirates	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-BR-01	Brazil	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-BR-02	Brazil	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-BY-01	Belarus	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-BY-02	Belarus	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-CN-01	China	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-CN-02	China	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-EP-01	European Patent Office (EPO)	DISC BRAKE AND SET OF BRAKE PADS	Pending	14884907.7					
BSEB KBAG-2015-18-EP-02	European Patent Office (EPO)	DISC BRAKE AND SET OF BRAKE PADS	Pending	17760531.8					
BSEB KBAG-2015-18-IN-01	India	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-IN-02	India	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-JP-01	Japan	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-KR-01	Korea (South)	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-KR-02	Korea (South)	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-MX-01	Mexico	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-MX-02	Mexico	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-RU-01	Russian Federation	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-RU-02	Russian Federation	DISC BRAKE AND SET OF BRAKE PADS	Pending						
BSEB KBAG-2015-18-US-01	United States of America	Disc Brake and Brake Pad Set	Granted						
BSEB KBAG-2015-18-US-04	United States of America	Disc Brake and Set of Brake Pads	Granted						
BSEB KBAG-2015-18-ZA-01	South Africa	DISC BRAKE AND BRAKE PAD SET	Pending						
BSEB KBAG-2015-22-WO-01	World Intellectual Property Org. (WIPO)	Hybrid Cam Bracket	Pending						
BSEB KBAG-2015-2-BY-01	Belarus	WEAR OPTIMIZED PAD DESIGN	Pending	a 20180128					
BSEB KBAG-2015-2-BY-03	Belarus	WEAR OPTIMIZED PAD DESIGN	Pending	20190263					
BSEB KBAG-2015-2-CN-01	China	WEAR OPTIMIZED PAD DESIGN	Granted	20168005433.4					
BSEB KBAG-2015-2-CN-03	China	WEAR OPTIMIZED PAD DESIGN	Pending	201880019490.6					
BSEB KBAG-2015-2-EP-01	European Patent Office (EPO)	WEAR OPTIMIZED PAD DESIGN	Pending	16842972.8					
BSEB KBAG-2015-2-EP-03	European Patent Office (EPO)	WEAR OPTIMIZED PAD DESIGN	Pending	16751750.3					
BSEB KBAG-2015-2-HK-01	Hong Kong	WEAR OPTIMIZED PAD DESIGN	Pending						
BSEB KBAG-2015-2-IN-01	India	WEAR OPTIMIZED PAD DESIGN	Pending	201837008468					
BSEB KBAG-2015-2-IN-03	India	WEAR OPTIMIZED PAD DESIGN	Pending	201937034713					
BSEB KBAG-2015-2-RU-01	Russian Federation	WEAR OPTIMIZED PAD DESIGN	Granted	2018111688					
BSEB KBAG-2015-2-RU-03	Russian Federation	WEAR OPTIMIZED PAD DESIGN	Granted	2019127164					
BSEB KBAG-2016-1-CN-01	China	BRAKE DISC WITH COMPENSATING ARRANGEMENT	Pending	201780021634.7					
BSEB KBAG-2016-1-EP-01	European Patent Office (EPO)	BRAKE DISC WITH COMPENSATING ARRANGEMENT	Pending	17779630.7					
BSEB KBAG-2017-10-RU-01	Russian Federation	Anti Reverse Brake for Slack Adjuster	Pending	2020122222					
BSEB KBAG-2017-10-WO-01	World Intellectual Property Org. (WIPO)	Anti Reverse Brake for Slack Adjuster	Pending						
BSEB KBAG-2017-13-EP-01	European Patent Office (EPO)	Tandem Worm Adjuster ADB	Pending						