

DECLARATION OF HOLLY STRINGFIELD

I, Holly Stringfield, hereby declare under penalty of perjury:

1. I am over the age of eighteen and am otherwise competent to execute this declaration.

2. I am employed as a paralegal at Carlson, Gaskey & Olds, P.C., counsel for Stoneridge Control Devices, Inc. (“Stoneridge”). I assist the attorneys of record in *ZF North America, Inc. et al. v. Stoneridge Control Devices, Inc.*, IPR2023-00273 and *Stoneridge Control Devices, Inc. v. ZF North America, Inc. et al.*, Case No. 2:22-cv-10289 pending in the Eastern District of Michigan.

3. I make this declaration based upon my personal knowledge of the facts asserted herein and based upon my review of the records in the above cases. I declare under penalty of perjury that the information in this declaration is true and correct.

4. On September 18, 2023, I visited the URL <https://www.moparfactoryparts.com/oem-parts/mopar-park-brake-actuator-68225300ab>. Exhibit A is a true and accurate printout of what I saw at said URL. Exhibit A matches Exhibit 2009 which was filed with Stoneridge’s Patent Owner Response in IPR2023-00273. Both Exhibit A and Exhibit 2009 show a product listing for a park brake actuator part number 68225300AB.

5. On September 18, 2023, I visited the URL https://press.zf.com/press/en/releases/release_39105.html. Exhibit B is a copy of the document I received when I clicked on the “Download” button at said URL. Exhibit B matches Exhibit 2010 which was filed with Stoneridge’s Patent Owner Response in IPR2023-00273. Both Exhibit B and Exhibit 2010 show a ZF press release dated May 23, 2022 and entitled “Electric Park Brake pioneer ZF surpasses 200 million units.”

6. On September 18, 2023, I visited the URL <https://www.einpresswire.com/article/632662740/electric-parking-brake-epb-system-market-projected-to-reach-usd-6-07-billion-by-2032-with-7-3-cagr-i-reports-and-data>. Exhibit C is a true and accurate printout of what I saw at said URL. Exhibit C matches Exhibit 2017 which was filed with Stoneridge’s Patent Owner Response in IPR2023-00273. Both Exhibit C and Exhibit 2017 show an article dated May 9, 2023 and entitled “Electric Parking Brake (EPB) System Market Projected to Reach USD 7.07 Billion by 2032 with 7.3% CAGR.”

7. On September 18, 2023, I visited the URL <https://www.globenewswire.com/news-release/2023/07/05/2699470/0/en/Electric-Parking-Brake-Market-is-Expanding-at-a-CAGR-of-12-4-to-Cross-US-5-92-Billion-by-2033-Fact-MR.html>. Exhibit D is a true and accurate printout of what I saw at said URL. Exhibit D matches Exhibit 2018 which was filed with

Stoneridge's Patent Owner Response in IPR2023-00273. Both Exhibit D and Exhibit 2018 show an article dated July 5, 2023 and entitled "Electric Parking Brake Market is Expanding at a CAGR of 12.4% to Cross US\$ 5.92 Billion by 2033."

8. Exhibit 2016 is an excerpt from Stoneridge's First Amended Disclosure of Infringement Contentions in *Stoneridge Control Devices, Inc. v. ZF North America, Inc. et al.*, Case No. 2:22-cv-10289. I filed Stoneridge's First Amended Disclosure of Infringement Contentions with the Eastern District of Michigan via its electronic filing system on June 23, 2023 on behalf of attorney Steven Susser. The filing was entered on the Court's docket as ECF No. 57.

Dated: September 18, 2023

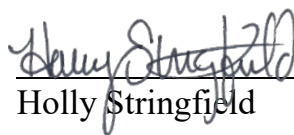

Holly Stringfield

EXHIBIT A

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Park Brake Actuator - Mopar (68225300AB)

2014-2021 Mopar - 68225300ab

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DETAILS

Genuine:



SKU:

68225300AB

Positions:

Left, Right

Other Names:

Park Brake Actuator, Right Or Left, Actuator

Description:

This item is non-returnable.

Condition:

New

Applications:

L Plus 4x4. With Tech Connect Package 4x4. With Tech Connect Package FWD.

Replaces:

68225300AA

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2020 ★ REVIEWS	Jeep	Cherokee	Altitude, High Altitude, Latitude, Latitude Plus, Limited, Overland, Trailhawk, Trailhawk Elite, Upland	2.0L L4 - Gas, 2.4L L4 - Gas, 3.2L V6 - Gas
	Jeep	Cherokee	Altitude, High Altitude, Latitude, Latitude Plus, Limited, Overland, Trailhawk, Trailhawk Elite	2.0L L4 - Gas, 2.4L L4 - Gas, 3.2L V6 - Gas
2019	Jeep	Compass	Altitude, High Altitude, Latitude, Limited, Sport, Trailhawk, Upland	2.4L L4 - Gas
2018	Jeep	Cherokee	Latitude, Latitude Plus, Limited, Overland, Trailhawk	2.4L L4 - Gas, 3.2L V6 - Gas

▼ (9 more fitments)

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Stoneridge Control Devices, Inc. - Exhibit 2022 - Page 7

EXHIBIT B



PRESSE-INFORMATION
PRESS RELEASE

Page 1/3, May 23, 2022

Electric Park Brake pioneer ZF surpasses 200 million units

- **ZF pioneered Electric Park Brake (EPB) technology and is the first-ever company to produce 200 million units**
- **ZF is a world leader in Park Brake systems having also produced more than 500 million integrated park brakes**
- **EPB technology began the electrification trend of braking systems and is a precursor to full brake-by-wire systems**

Koblenz, Germany. ZF, a world leader in foundation brake systems, has produced its 200 millionth EPB unit, the first company in the world to have reached this milestone. The inventor of the EPB motor-on-caliper brake more than 20 years ago, ZF's EPB is now in its sixth generation and is the true embodiment of an intelligent mechanical system. The Group has also produced more than 500 million of its first-to-market Integrated Park Brake (IPB) units. IPB incorporates a fully integrated park brake mechanism within the rear caliper and set the stage for EPB introduction.

EPB is remarkable in its ability to deliver benefits such as enhanced fuel economy due to weight reduction in the brake system. It is a prime example of the electrification of mechanical systems allowing for integration and advanced functions when combined with other vehicle systems, and was an important first step toward the electrification of braking systems. The technology also helps to enhance driver safety by enabling two-wheel anti-lock emergency stops and driver convenience and comfort as the system is activated by the touch of a button.

In addition to providing park brake functionality, EPB is a fully integrated part of the brake system with features such as dynamic actuation, brake pad wear sensing and offers reduced degradation associated with mechanical systems.

Manfred Meyer, senior vice president, Active Safety for ZF commented:
"EPB is a great success story and today we recognize the engineers,

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PRESSE-INFORMATION
PRESS RELEASE

Page 2/3, May 23, 2022

designers, and the employees who produce this technology in locations throughout the world including Europe, the Americas, and Asia. EPB is a testament to the relentless pursuit of innovation. ZF was already a global leader in the foundation brake market in the early 2000's but sought to transform a purely mechanical service brake function into something much more. Today, the technology is featured on many of the world's most popular vehicles across the spectrum of small cars through to larger pick-up trucks and sport utility vehicles."

ZF offers a range of park brake solutions including the integrated park brake through to full EPB systems including standard EPB, EPBi, which eliminates the need for a separate Electronic Control Unit (ECU) as it is integrated within the electronic stability control system, and EPB for front axles which is more suitable for smaller vehicle segments.

"As we move toward ever higher levels of advanced safety, automated driving and vehicle electrification, braking systems will play a key role in helping to meet regulations, enable new functions and provide regenerative brake energy recovery. This requires higher levels of integration with other onboard systems and a greater degree of vehicle control and systems like the Electric Park Brake and ZF's Integrated Brake Control Systems will have greater applicability than ever before," Meyer concluded.

Caption:

The Electric Park Brake offers enhanced efficiency, functionality, safety, comfort and convenience.

Image: ZF

Press contact:

John Wilkerson, Product and Technology Communications, ZF North America

Phone: +1 734 812-6979; email: john.wilkerson@zf.com

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PRESSE-INFORMATION
PRESS RELEASE

Page 3/3, May 23, 2022

About ZF

ZF is a global technology company supplying systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains of Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive product and software solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies a wide range of vehicle types. With its products, the company contributes to reducing emissions, protecting the climate and enhancing safe mobility.

With some 157,500 employees worldwide, ZF reported sales of €38.3 billion in fiscal 2021. The company operates 188 production locations in 31 countries.

For further press information and photos, please visit: www.zf.com

ZF Friedrichshafen AG
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EXHIBIT C



There were 724 press releases posted in the last 24 hours and 470,018 in the last 365 days.

Electric Parking Brake (EPB) System Market Projected to Reach USD 6.07 Billion by 2032 with 7.3% CAGR | Reports and Data

NEWS PROVIDED BY

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May 09, 2023, 13:43 GMT

[g-brake-epb-system-market-projected-to-reach-usd-6-07-billion-by-2032-with-7-3-cagr-i-reports-and-+I+Reports+and+Data\)](#)



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global
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More From This Source

size was USD 3.22 Billion in 2022 and is expected to reach USD 6.07 Billion in 2032, and CAGR of 7.3%

NEW YORK, NY, UNITED STATES , May 9, 2023
/EINPresswire.com

(<http://www.einpresswire.com/>) -- The global Electric Parking Brake (EPB) System Market (<https://www.reportsanddata.com/report-detail/electric-parking-brake-system-market>) size was USD 3.22 billion in 2022 and is projected to reach USD 6.07 billion by 2032, with a rapid revenue CAGR of 7.3% during the forecast period. The growth of the market is being driven by several factors including the rising production and sales of premium and luxury cars, consumer demand for fuel-efficient and environmentally friendly vehicles, and the increasing use of automated driving technology.

The rising production and sales of high-end and luxury vehicles have led to an increased use of EPB systems. Consumers are willing to spend more on vehicles that offer cutting-edge safety features, convenience, and luxury due to the increase in discretionary income. Premium automobiles are a good fit for EPB systems since they provide better safety and performance than conventional mechanical parking brakes. Additionally, the integration of EPB systems in mid-range vehicles is also driving market revenue growth.

Automotive Tire Market to Reach USD 114.6 Billion by 2032 | Reports and Data (</article/646842507/automotive-tire-market-to-reach-usd-114-6-billion-by-2032-reports-and-data>).

Automotive Testing Inspection Certification Market to Reach USD 43.98 Billion by 2032 with 8% CAGR (</article/646842286/automotive-testing-inspection-certification-market-to-reach-usd-43-98-billion-by-2032-with-8-cagr>).

Field Service Management (FSM) Market Estimated Growth at a CAGR of 19% by 2032 - Reports and Data (</article/646841478/field-service-management-fsm-market-estimated-growth-at-a-cagr-of-19-by-2032-reports-and-data>).

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The need for environmentally friendly and fuel-efficient vehicles is also driving the growth of the market. Governments worldwide are enforcing strict emission standards, and automakers are creating cars with smaller carbon footprints to comply. EPB systems are more fuel-efficient and produce fewer emissions than conventional mechanical parking brakes due to their use of electric motors instead of hydraulic systems.

The implementation of automated driving technology is another factor driving market revenue growth. ADAS functions such as autonomous emergency braking, lane departure warning, and adaptive cruise control require EPB systems as a crucial component. As a result, the need for EPB systems in contemporary automobiles is increasing.

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Segments Covered in the Report

The Electric Parking Brake (EPB) system market can be categorized by component type, sales channel, and vehicle type.

In terms of component type, the market is segmented into the electronic control unit, actuator, and switch. The electronic control unit is responsible for the proper functioning of the EPB system, while the actuator is responsible for engaging and disengaging the brakes, and the switch is used to activate and deactivate the system.

By sales channel, the market is categorized into Original Equipment Manufacturer (OEM) and aftermarket. The OEM segment includes the EPB system components installed in new vehicles during manufacturing, while the aftermarket segment includes the EPB system components sold to customers as replacements for faulty or damaged parts.

Lastly, the market is segmented by vehicle type into passenger cars and commercial vehicles. EPB systems are becoming increasingly popular in both types of vehicles due to their superior safety and performance compared to conventional parking brakes.

In summary, the Electric Parking Brake (EPB) system market can be divided into the electronic control unit, actuator, and switch components, OEM and aftermarket sales channels, and passenger cars and commercial vehicles.

Access Full Report Description with Research Methodology and Table of Contents @ <https://www.reportsanddata.com/report->

[detail/electric-parking-brake-system-market](https://www.reportsanddata.com/report-detail/electric-parking-brake-system-market)
(<https://www.reportsanddata.com/report-detail/electric-parking-brake-system-market>).

Strategic development:

Continental AG unveiled its new integrated parking brake system for electric vehicles in 2021. This system, integrated into the rear axle, offers improved performance and safety features while reducing the weight and complexity of traditional electric parking brake systems.

In 2020, ZF Friedrichshafen AG launched its new electronic parking brake system designed for electric and hybrid vehicles. This system offers enhanced functionality and performance when compared to traditional hydraulic parking brake systems.

Also in 2020, Aisin Seiki Co. Ltd. and Joyson Safety Systems announced a joint venture to develop and manufacture electric parking brake systems for the Chinese market.

In 2019, Robert Bosch GmbH introduced its new electric parking brake system that uses a compact motor and transmission to provide reliable and efficient operation in a smaller package compared to traditional systems.

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Competitive Landscape:

The global electric parking brake system market is a competitive industry with major companies vying for market share. Some of the key players in this market include ZF Friedrichshafen AG, Continental AG, Aisin Seiki Co. Ltd., Robert Bosch GmbH, Hyundai Mobis, Wabco Holdings Inc., Knorr-Bremse AG, Mando Corporation, TBK Co. Ltd., and Hitachi Automotive Systems Ltd.

Other major players in the electric parking brake system market include Hyundai Mobis, Wabco Holdings Inc., Knorr-Bremse AG, Mando Corporation, TBK Co. Ltd., and Hitachi Automotive Systems Ltd. These companies are actively engaged in research and development to introduce innovative products and gain a competitive edge in the market.

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Electric Parking Brake Market is

Expanding at a CAGR of 12.4% to

Cross US\$ 5.92 Billion by 2033 |

Fact.MR

The United States has stringent safety regulations and

standards for automobiles, which is boosting the

demand for electric parking brakes.

July 05, 2023 08:00 ET| Source: [FACT.MR](#)

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Rockville, July 05, 2023 (GLOBE NEWSWIRE) -- According to

Fact.MR, a market research and competitive intelligence

provider, the [Electric Parking Brake Market](#) is anticipated to

grow at a remarkable CAGR of 12.4% and reach US\$ 5.92 billion

in valuation by 2033, up from US\$ 1.83 billion in 2023.

The term "electric parking brakes" (EPB) refers to braking

systems that use electric motors rather than more conventional

mechanical components like hand levers or foot pedals. When

parked on a slope or flat surface, they are used to retain a car in

place and stop it from rolling or sliding. Instead of a direct link

between the brake pedal and the brake mechanism, electric

parking brakes use electronic controls to engage and disengage

the parking brake.

For More Insights into the Market, Request a Sample of this

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Key Driving Forces Accelerating the Market Growth

- Stringent government regulations regarding vehicle safety, emission standards, and fuel efficiency are driving the

...market is a major driving force for the EPB market. As EVs become more common, the demand for electric parking brakes as a standard feature is expected to increase.

- The United States market is expected to witness a valuation of US \$ 1.26 Bn by 2033. Moreover, the United States has effective safety regulations and standards for automobiles, which is boosting the adoption of electric parking brakes.
- Electric parking brakes offer enhanced safety features compared to traditional mechanical parking brakes. They provide better control, prevent rollbacks, and offer features like an automatic release when the vehicle starts moving, contributing to increased safety standards in vehicles.
- Electric parking brakes can be integrated with ADAS technologies, such as autonomous emergency braking (AEB) and lane-keeping assist systems. This integration enhances vehicle safety and convenience, further driving the demand for EPB systems.
- Electric parking brakes are more convenient to use compared to mechanical systems, as they can be engaged and disengaged with the push of a button. Consumers are increasingly valuing the ease of use and comfort provided by electric parking brakes, leading to market growth.

Vital Indicators Shaping the Future of the Industry

- Government policies and regulations related to vehicle safety, emissions, and fuel efficiency will play a crucial role in shaping the future of the EPB market. Stricter regulations mandating the adoption of EPBs in vehicles or offering incentives for electric vehicles can significantly influence market growth.
- The rate of electric vehicle adoption in North America will directly impact the demand for EPB systems. As electric vehicles gain popularity and market share, the demand for EPBs as a standard feature will increase, driving the growth of the market.
- Ongoing technological advancements in EPB systems will shape the future of the market. Innovations such as improved control algorithms, integration with advanced driver assistance systems, and enhanced safety features will contribute to market growth and influence consumer preferences.
- The cost of EPB systems and their affordability for consumers will be a significant factor shaping the market's future. As technology advances and economies of scale are achieved, the cost of EPB systems is expected to decrease, making them more accessible to a wider range of vehicles and consumers.
- Consumer preferences and awareness regarding vehicle safety, convenience, and environmental impact will influence the adoption of EPB systems. Increasing consumer awareness of the benefits offered by EPBs, such as improved safety and ease of use, will drive market growth.

[?flag=RC&rep_id=2536](#)

Challenges Hindering the Market Growth

- Electric parking brake systems can be more expensive than traditional mechanical systems, which can pose a barrier to adoption for some consumers and vehicle manufacturers. The higher initial costs associated with EPBs can limit their widespread implementation, especially in lower-priced vehicle segments.
- Retrofitting EPB systems into existing vehicles can be technically challenging and costly. It may require modifications to the vehicle's braking system, electronic control unit (ECU), and other components, making it less feasible for older vehicles or vehicles without pre-existing EPB provisions.

How Competition Influences the Market

Key players in the market are focusing on various strategic acquisitions, collaborations, investments, and R&D activities.

- Market players strive to develop advanced EPB systems with improved features, performance, and functionality to gain a competitive edge. This competition fosters technological advancements and benefits consumers by offering a wider range of options.
- Competition influences the market share and brand positioning of EPB system manufacturers. Companies with a strong market presence and recognized brands often have a competitive advantage. They can leverage their reputation, customer loyalty, and distribution networks to gain a larger market share, while new entrants and smaller players strive to establish their presence through differentiation and market strategies.

Key Companies Profiled

- Aisin Seiki Co. Ltd
- Continental AG
- DURA Automotive Systems
- TBK Co. Ltd
- Hyundai Mobis Co. Ltd
- ZF Friedrichshafen AG
- Mando Corporation

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Key Segments of Electric Parking Brake Industry Research

- By Type:

- Electric Parking Brake Actuators
- Electric Parking Brake Switches

- **By Vehicle Type:**
 - Passenger Cars
 - Light Commercial Vehicles
 - Heavy Commercial Vehicles
- **By Region:**
 - North America
 - Latin America
 - Europe
 - Asia Pacific & China
 - Middle East & Africa

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Automotive Brake Components Market: Worldwide sales of automotive brake components are valued at US\$ 49.9 billion at present. The global automotive brake components market is forecast to expand at a CAGR of 4.2% to reach a valuation US\$ 75.6 billion by 2032.

Hybrid Electric Vehicles Market: The global market for hybrid electric vehicles is anticipated to showcase a stellar growth trajectory registering a CAGR of over 14% over the forecast period 2021-2031, according to Fact.MR. Gasoline hybrid vehicles are projected to surpass a value of over US\$ 100 Million by 2031.

Electric Brake Booster Market: Demand for electric brake booster market is being driven by continued advancements and innovation in the development of braking systems to ensure the safety of passengers and pedestrians.

Air Brake Market: According to the latest study by Fact.MR, Air Brake market is set to behold a moderate growth rate during the forecast period of 2021-2031. The rising adoption of braking solutions in medium and heavy duty vehicles is one of the foremost driving factors that is expected to drive the overall growth.

improvements in transport infrastructure.

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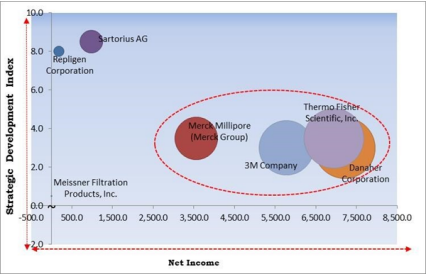
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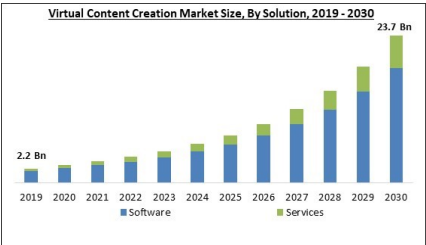
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