



Patent Searching Using Espacenet

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Head, Innovation and Technology Support Section

Kigali
June 27, 2018

Scenario

- An automobile manufacturer intends to launch a new line of cars in Germany and would like to incorporate parking assist technologies into these cars.

Scenario

- Your task is to determine:
 - whether patent applications have been filed for parking assist technologies in Germany
 - what the current status of these patent applications is

Task breakdown

- Access Espacenet
- Retrieve patent documents based on
 - classification
- Examine a specific patent document
- Review legal status information
- Review procedural documentation

Task breakdown

- **Access Espacenet**
- Retrieve patent documents based on
 - classification
- Examine a specific patent document
- Review legal status information
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Discussing the way forward

EPO Social Conference



EPO-EUIPO follow-up study EPO Social Conference Examiner jobs

EPO Homepage

The screenshot displays the EPO homepage layout. At the top left is the EPO logo with text in German, English, and French. To the right are links for 'Media' and 'Contact', and a language dropdown set to 'English'. Below this is a search bar and buttons for 'Website' and 'Patents'. A main navigation bar includes 'Home', 'Searching for patents', 'Applying for a patent', 'Law & practice', 'News & issues', 'Learning & events', and 'About us'. A secondary menu on the left lists 'Technical information', 'Legal information', 'Business information', and 'Helpful resources', each with a right-pointing chevron. To the right of this menu is a list of links: 'Espacenet - patent search' (highlighted with a red box), 'European Publication Server', 'DOCDB', 'Searching Asian documents', and 'EP full-text search'. Further right is a 'Patent information tour' box with the text 'Discover the world of patent information' and a 'Take the tour' button. The bottom section features a large map of Europe and Asia, with a sidebar on the left containing 'Patent translate', 'Applying for a patent', and 'Law & practice'. Below the map are three buttons: 'EPO-EUIPO follow-up study', 'EPO Social Conference', and 'Examiner jobs'.

Espacenet Portal

Logo: **Europäisches Patentamt** / **European Patent Office** / **Office européen des brevets**

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Smart search: Siemens EP 2007

Clear

Two new features

Full-text searching in Smart search

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Don't forget you have to refine your search to enable full-text searching; by default, the search is run in the bibliographic data collection in Smart search. To do so, click Refine search at the top left of the page to open a menu containing the full-text searchable collections and select whichever one you want (*Worldwide EN/FR/DE*).

Searching Espacenet for inventors or applicants with a specific country of residence

About 40% of the documents in Espacenet are indexed with country of residence for the related inventors and applicants. Espacenet has a very useful feature that lets you search for partners residing in countries that could be of interest for your business or research field. In Advanced search, just enter the country code between square bracket (e.g. [DE]) in the Inventor(s) or Applicant(s) field. In Smart search, use the following query: `in=[CC]` or `pa=[CC]`, e.g. `in=[JP]`.

Espacenet bibliographic and full-text data coverage

Espacenet bibliographic and character-coded full-text data coverage information can be found on the webpages [Latest bibliographic coverage](#) and [Latest full-text coverage](#), both of which are updated daily.

These pages show you at a glance the total number of publications for which bibliographic and character-coded full-text data is available. They also feature hyperlinks to Espacenet for the first and latest publications for each country and kind code type and use green highlighting to indicate publications containing data that has changed since the previous day. What is more, you can use filters to show only the changes.

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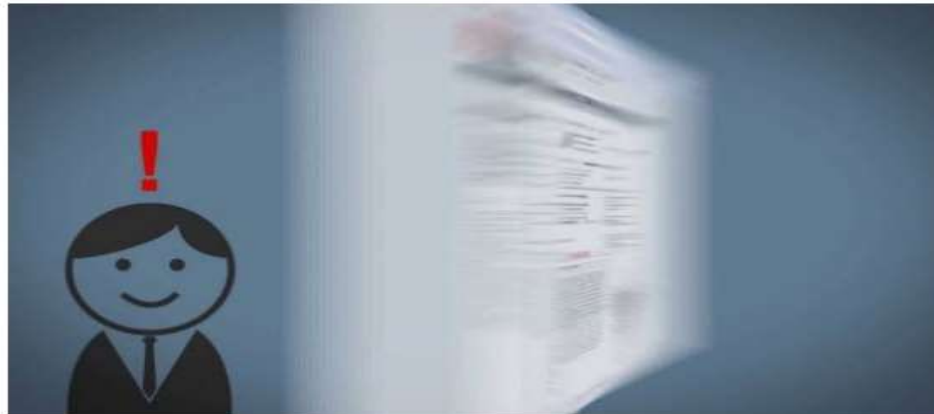
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Espacenet search page

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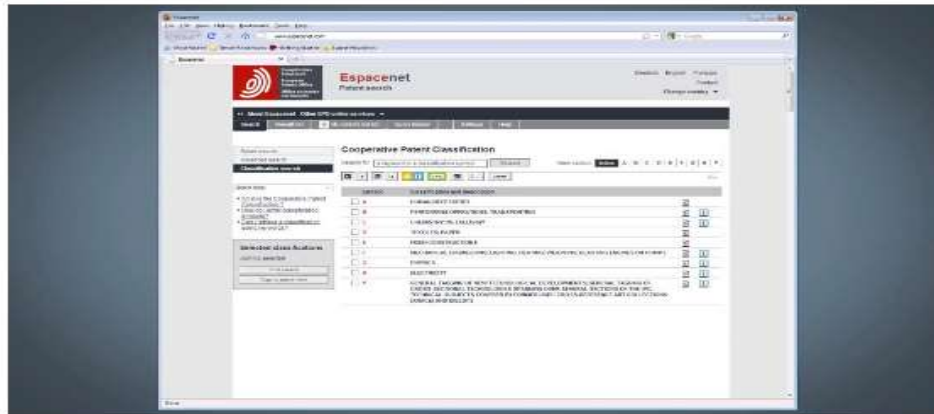
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Espacenet: Intro



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Cooperative Patent Classification: Intro



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Task breakdown

- Access Espacenet
- **Retrieve patent documents based on**
 - **classification**
- Examine a specific patent document
- Review legal status information
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Espacenet search page

The screenshot shows the Espacenet search page. At the top left is the logo of the European Patent Office (EPO) with the text 'Europäisches Patentamt', 'European Patent Office', and 'Office européen des brevets'. To the right of the logo is the 'Espacenet Patent search' header. Further right are language options: 'Deutsch', 'English', 'Français', and a 'Change country' dropdown menu. Below the header is a navigation bar with 'About Espacenet' and 'Other EPO online services'. A secondary navigation bar contains 'Search', 'Result list', 'My patents list (0)', 'Query history', 'Settings', and 'Help'. On the left side, there is a 'Smart search' section with three options: 'Advanced search', 'Classification search' (highlighted with a red box), and 'Maintenance news'. Below this is a 'Maintenance news' section with a minus sign, followed by 'Espacenet outages' with a plus sign. The 'Espacenet outages' section contains text about regular maintenance outages and a specific outage on Sunday, 30 October 2016. Below the outages are 'News flashes', 'Latest updates', and 'Related links', each with a plus sign. The main content area features the heading 'Espacenet: free access to the database of over 90 million patents'. Below this is a search input field with a 'Smart search' label and an information icon. The search term 'Siemens EP 2007' is entered. Below the search field are 'Clear' and 'Search' buttons. The 'New in Espacenet' section includes several updates: full-text searches in English, French, or German; Combisets (linked CPC symbols) now searchable in Smart search; secure access to Espacenet via a verified secure domain; access to the Common Citation Document (CCD) via Cited documents or the INPADOC patent family sections; and a link to 'Try out CCD'. Below this is the 'Online products – need some answers?' section, which encourages users to use the 'discussion forum' for questions and answers. At the bottom of the main content area is the 'Espacenet: Intro' section, which is partially obscured by a blurred image.

Classification search

Cooperative Patent Classification

Search for View section **Index** | A | B | C | D | E | F | G | H | Y |

A »

Symbol	Classification and description		
<input type="checkbox"/> A	HUMAN NECESSITIES		
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING		
<input type="checkbox"/> C	CHEMISTRY; METALLURGY		
<input type="checkbox"/> D	TEXTILES; PAPER		
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<input type="checkbox"/> F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS		
<input type="checkbox"/> G	PHYSICS		
<input type="checkbox"/> H	ELECTRICITY		
<input type="checkbox"/> Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS		

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A »

Symbol	Classification and description
<input type="checkbox"/> ☆☆	<input type="checkbox"/> B62D 15/00 Steering not otherwise provided for
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> B60W 30/00 Purposes of road vehicle drive control systems not related to the control of a particular sub-unit, e.g. of systems using conjoint control of vehicle sub-units, {or advanced driver assistance systems for ensuring comfort, stability and safety or drive control systems for propelling or retarding the vehicle (anti-lock brake systems [ABS] B60T 8/00)}
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> G08G 1/00 Traffic control systems for road vehicles (arrangement of road signs or traffic signals E01F 9/00 ; {automatic vehicle control B62D })
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> G01S 15/00 Systems using the reflection or reradiation of acoustic waves, e.g. sonar systems
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> B60W 2550/00 Input parameters relating to exterior conditions
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> B60W 10/00 Conjoint control of vehicle sub-units of different type or different function (for propulsion of purely electrically-propelled vehicles with power supplied within the vehicle B60L 11/00)
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> B60R 1/00 Optical viewing arrangements ({house mirrors and spies A47G 1/00 ; } antiglare equipment, e.g. polarising, for windcreens or windows B60J 3/00 ; {visual aids for tractors B62D 49/0614 ; } devices <i>per se</i> G02B)
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> B60L 11/00 Electric propulsion with power supplied within the vehicle (B60L 8/00 , B60L 13/00 take precedence; arrangements or mounting of plural diverse prime-movers for mutual or common propulsion B60K 6/20 ; control systems specially adapted for hybrid vehicles B60W 20/00)
<input type="checkbox"/> ☆☆☆☆☆	<input type="checkbox"/> B60R 2300/00 Details of viewing arrangements using cameras and displays, specially adapted for use in a vehicle

Classification search: Results

Symbol	Classification and description
▲ ★★ ★★	<input type="checkbox"/> B62D 15/00 Steering not otherwise provided for
	<input type="checkbox"/> B62D 15/02 <ul style="list-style-type: none"> • Steering position indicators; {Steering position determination; Steering aids}
	<input type="checkbox"/> B62D 15/0205 <ul style="list-style-type: none"> •• {Mechanical indicators, e.g. in or near steering wheel}
	<input type="checkbox"/> B62D 15/021 <ul style="list-style-type: none"> •• {Determination of steering angle} ({ sensors in general G01B })
	<input type="checkbox"/> B62D 15/0215 <ul style="list-style-type: none"> ••• {by measuring on the steering column}
	<input type="checkbox"/> B62D 15/022 <ul style="list-style-type: none"> •••• {on or near the connection between the steering wheel and steering column}
	<input type="checkbox"/> B62D 15/0225 <ul style="list-style-type: none"> •••• {by measuring on a steering gear element, e.g. on a rack bar}
	<input type="checkbox"/> B62D 15/023 <ul style="list-style-type: none"> •••• {by measuring on the king pin}
	<input type="checkbox"/> B62D 15/0235 <ul style="list-style-type: none"> •••• {by measuring or deriving directly at the electric power steering motor}
	<input type="checkbox"/> B62D 15/024 <ul style="list-style-type: none"> •••• {Other means for determination of steering angle without directly measuring it, e.g. deriving from wheel speeds on different sides of the car}
	<input type="checkbox"/> B62D 15/0245 <ul style="list-style-type: none"> •••• {Means or methods for determination of the central position of the steering system, e.g. straight ahead position}
	<input type="checkbox"/> B62D 15/025 <ul style="list-style-type: none"> •••• {Active steering aids, e.g. helping the driver by actively influencing the steering system after environment evaluation} ({ B62D 1/28 takes precedence; parking aids B62D 15/027 })
	<input type="checkbox"/> B62D 15/0255 <ul style="list-style-type: none"> ••••• {Automatic changing of lane, e.g. for passing another vehicle}
	<input type="checkbox"/> B62D 15/026 <ul style="list-style-type: none"> ••••• {combined with automatic distance control, i.e. electronic tow bar}
	<input type="checkbox"/> B62D 15/0265 <ul style="list-style-type: none"> ••••• {Automatic obstacle avoidance by steering}
	<input type="checkbox"/> B62D 15/027 <ul style="list-style-type: none"> ••••• {Parking aids, e.g. instruction means}
	<input type="checkbox"/> B62D 15/0275 <ul style="list-style-type: none"> ••••• {by overlaying a vehicle path based on present steering angle over an image without processing that image}
	<input type="checkbox"/> B62D 15/028 <ul style="list-style-type: none"> ••••• {Guided parking by providing commands to the driver, e.g. acoustically or optically}
	<input type="checkbox"/> B62D 15/0285 <ul style="list-style-type: none"> ••••• {Parking performed automatically}
	<input type="checkbox"/> B62D 15/029 <ul style="list-style-type: none"> ••••• {Steering assistants using warnings or proposing actions to the driver without influencing the steering system} ({ parking aids B62D 15/027 ; determination or calculation of trajectory of land vehicles G05D 1/021 ; image processing G06T })
	<input type="checkbox"/> B62D 15/0295 <ul style="list-style-type: none"> ••••• {by overlaying a vehicle path based on present steering angle over an image without processing that image}

Classification search: Results

- B62D 15/025
 - {Active steering aids, e.g. helping the driver by actively influencing the steering system after environment evaluation} ({ B62D 1/28 takes precedence; parking aids B62D 15/027 })
- B62D 15/0255
 - {Automatic changing of lane, e.g. for passing another vehicle}
- B62D 15/026
 - {combined with automatic distance control, i.e. electronic tow bar}
- B62D 15/0265
 - {Automatic obstacle avoidance by steering}
- B62D 15/027
 - {Parking aids, e.g. instruction means}
- B62D 15/0275
 - {by overlaying a vehicle path based on present steering angle over an image without processing that image}
- B62D 15/028
 - {Guided parking by providing commands to the driver, e.g. acoustically or optically}
- B62D 15/0285
 - {Parking performed automatically}
- B62D 15/029
 - {Steering assistants using warnings or proposing actions to the driver without influencing the steering system} ({ parking aids B62D 15/027 , determination or calculation of trajectory of land vehicles G05D 1/021 , image processing G06T })
- B62D 15/0295
 - {by overlaying a vehicle path based on present steering angle over an image without processing that image}

Classification search: Results

Selected classifications

B62D15/027 **/low** ✕

Clear

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| <input type="checkbox"/> | B62D 15/0245 | •••{Means or methods for determination of the central position of the steering system, e.g. straight ahead position} |
| <input type="checkbox"/> | B62D 15/025 | ••{Active steering aids, e.g. helping the driver by actively influencing the steering system after environment evaluation} ({ <u>B62D 1/28</u> takes precedence; parking aids <u>B62D 15/027</u> }) |
| <input type="checkbox"/> | B62D 15/0255 | •••{Automatic changing of lane, e.g. for passing another vehicle} |
| <input type="checkbox"/> | B62D 15/026 | •••{combined with automatic distance control, i.e. electronic tow bar} |
| <input type="checkbox"/> | B62D 15/0265 | •••{Automatic obstacle avoidance by steering} |
| <input checked="" type="checkbox"/> | B62D 15/027 | ••{Parking aids, e.g. instruction means} |
| <input checked="" type="checkbox"/> | B62D 15/0275 | •••{by overlaying a vehicle path based on present steering angle over an image without processing that image} |
| <input checked="" type="checkbox"/> | B62D 15/028 | •••{Guided parking by providing commands to the driver, e.g. acoustically or optically} |
| <input checked="" type="checkbox"/> | B62D 15/0285 | •••{Parking performed automatically} |

/low: includes all "children" classifications

/exact: includes only the specified classification symbol

Classification search: Results

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- B62D 15/0245
 - {Means or methods for determination of the central position of the steering system, e.g. straight ahead position}
- B62D 15/025
 - {Active steering aids, e.g. helping the driver by actively influencing the steering system after environment evaluation} ({ B62D 1/28 takes precedence; parking aids B62D 15/027 })
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 - {Automatic changing of lane, e.g. for passing another vehicle}
- B62D 15/026
 - {combined with automatic distance control, i.e. electronic tow bar}
- B62D 15/0265
 - {Automatic obstacle avoidance by steering}
- B62D 15/027
 - {Parking aids, e.g. instruction means}
- B62D 15/0275
 - {by overlaying a vehicle path based on present steering angle over an image without processing that image}
- B62D 15/028
 - {Guided parking by providing commands to the driver, e.g. acoustically or optically}
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 - {Parking performed automatically}

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Approximately 5,224 results found in the Worldwide database for:
B62D15/027 low as the Cooperative Patent Classification
Only the first 500 results are displayed.

1 ▶

Results are sorted by date of upload in database

1. AUTOMATIC PARKING ASSISTANCE APPARATUS AND VEHICLE INCLUDING SAME

★ Inventor: BAE HYEONJU [KR] HA SEONGJU [KR] (+1)	Applicant: LG ELECTRONICS INC [KR]	CPC: B60R1/00 B60R2300/806 B60W30/06 (+5)	IPC: B60W30/06 B60W40/02 B60W50/14 (+2)	Publication info: WO2018070583 (A1) 2018-04-19	Priority date: 2016-10-12
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2. DISPLAY SYSTEM UTILIZING VEHICLE AND TRAILER DYNAMICS

★ Inventor: AICH SUDIPTO [US] TROMBLEY ROGER ARNOLD [US] (+2)	Applicant: FORD GLOBAL TECH LLC [US]	CPC: B60D1/245 B60D1/62 B60R1/003 (+9)	IPC: B60D1/24 B60D1/62 B60R1/00 (+6)	Publication info: US2018109762 (A1) 2018-04-19	Priority date: 2011-04-19
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3. CLEARANCE OF AN AUTONOMOUS PARKING SYSTEM

★ Inventor: NORDBRUCH STEFAN [DE]	Applicant: BOSCH GMBH ROBERT [DE]	CPC: B62D15/0285	IPC: G05D1/02	Publication info: US2018107220 (A1) 2018-04-19	Priority date: 2015-04-30
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4. WIRELESS POWER SUPPLY DEVICE AND PARKING SUPPORT DEVICE

★ Inventor: MASAKI KONNO [JP] SHIGEYUKI YOSHIDA [JP] (+1)	Applicant: NISSAN MOTOR [JP]	CPC: B60L11/1803 B60L11/182 B60L11/1824 (+22)	IPC: B60L11/18 B60M7/00	Publication info: BR112016007088 (A2) 2017-08-01	Priority date: 2013-09-30
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Developing Scenario

- In fact, the manufacturer has seen Volkswagen cars that have a system of particular interest and asks for a list of all these patents for information.

Classification search: Results

Selected classifications

B62D15/027 /low x


Clear

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- B62D 15/0245
 - {Means or methods for determination of the central position of the steering system, e.g. straight ahead position}
- B62D 15/025
 - {Active steering aids, e.g. helping the driver by actively influencing the steering system after environment evaluation} ({ B62D 1/28 takes precedence; parking aids B62D 15/027 })
- B62D 15/0255
 - {Automatic changing of lane, e.g. for passing another vehicle}
- B62D 15/026
 - {combined with automatic distance control, i.e. electronic tow bar}
- B62D 15/0265
 - {Automatic obstacle avoidance by steering}
- B62D 15/027
 - {Parking aids, e.g. instruction means}
- B62D 15/0275
 - {by overlaying a vehicle path based on present steering angle over an image without processing that image}
- B62D 15/028
 - {Guided parking by providing commands to the driver, e.g. acoustically or optically}
- B62D 15/0285
 - {Parking performed automatically}

Advanced search interface



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Title: plastic and bicycle

Title or abstract: hair

Enter numbers with or without country code

Publication number: WO2008014520

Application number: DE19971031696

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Application number: [i](#) DE19971031696

Priority number: [i](#) WO1995US15925

Enter one or more dates or date ranges

Publication date: [i](#) yyyymmdd

Enter name of one or more persons/organisations

Applicant(s): [i](#) Institut Pasteur

Inventor(s): [i](#) Smith

Enter one or more classification symbols

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IPC [i](#) H03M1/12

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Applicant(s):

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Approximately **194** results found in the Worldwide database for: **volkswagen** as the applicant AND **B62D15/027/low** as the Cooperative Patent Classification 1 ▶

Sort by: Publication date Sort order: Descending Sort

1. ODOMETRY METHOD FOR DETERMINING A POSITION OF A MOTOR VEHICLE, CONTROL DEVICE AND MOTOR VEHICLE

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MAX STEPHAN [DE] WEISS KRISTIAN [DE] (+7)	VOLKSWAGEN AG [DE]	<u>B62D13/06</u> <u>B62D15/021</u> <u>B62D15/0285</u> (+7)	B62D15/02 G01C22/00 G06T7/246 (+1)	US2018073891 (A1) 2018-03-15	2016-09-15

2. METHOD FOR OPERATING A VEHICLE, AND CONTROL UNIT FOR CARRYING OUT THE METHOD

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MAX STEPHAN [DE] WEISS KRISTIAN [DE] (+7)	VOLKSWAGEN AG [DE]	<u>B60W2530/14</u> <u>B60W30/06</u> <u>B62D15/0285</u> (+1)	B60W10/04 B60W10/18 B60W10/20 (+6)	DE102016217330 (A1) 2018-03-15	2016-09-12

3. Verfahren zur Durchführung eines automatischen oder semi-automatischen Parkvorgangs eines Kraftfahrzeugs und Kraftfahrzeug

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
BUESCHENFELD TORSTEN [DE] MAX STEPHAN [DE] (+5)	VOLKSWAGEN AG [DE]	<u>B60Q1/085</u> <u>B60Q1/525</u> <u>B60Q2300/33</u> (+11)	B60Q1/24 B60W10/04 B60W10/20 (+4)	DE102016215245 (A1) 2018-02-22	2016-08-16

4. Ablenkungsfreies Fernsteuern eines Kraftfahrzeugs mit einem Parkassistenzsystem

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MICHAELIS JÖRN [DE] HENGSTENBERG OLIVER [DE] (+2)	VOLKSWAGEN AG [DE]	<u>B60W10/04</u> <u>B60W10/18</u> <u>B60W10/20</u> (+8)	B60W10/04 B60W10/18 B60W10/20 (+5)	DE102016214433 (A1) 2018-02-08 DE102016214433 (B4) 2018-02-22	2016-08-04

Task breakdown

- Access Espacenet
- Retrieve patent documents based on
 - classification
- **Examine a specific patent document**
- Review legal status information
- Review procedural documentation

Search: Results

44. Method and device for recognising when a kerbstone has been driven over

★ Inventor: HUEGER PHILIPP [DE] BRANDT FABIAN [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: <u>B60W2520/10</u> <u>B60W2520/28</u> <u>B60W2550/147</u> (+3)	IPC: B60W30/06 B60W40/10	Publication info: DE102012014809 (A1) 2014-01-30	Priority date: 2012-07-26
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45. Method for determining threatening collision between e.g. motor car and trailer, involves detecting position of trailer with respect to towing vehicle, and determining collision between towing vehicle and trailer based on detected position

★ Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: <u>B60D1/305</u> <u>B60D1/82</u> <u>B62D13/06</u> (+1)	IPC: B60D1/30 B62D13/06	Publication info: DE102012006206 (A1) 2013-10-02	Priority date: 2012-03-27
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46. METHOD AND DEVICE FOR ASSISTING PARKING OF A MOTOR VEHICLE

★ Inventor: HUEGER PHILIPP [DE] SCHWITTERS FRANK [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: <u>B62D15/027</u>	IPC: B60W10/20 B60W30/06 B62D15/02	Publication info: KR20130045284 (A) 2013-05-03 KR101468791 (B1) 2014-12-03	Priority date: 2010-06-04
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47. Method for parking motor car in transverse parking space, involves determining parking trajectory from starting position of car and detected parking space edges, and executing assisted parking process along determined trajectory

★ Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE] (+2)	Applicant: VOLKSWAGEN AG [DE]	CPC: <u>B62D15/0285</u>	IPC: B60W30/06	Publication info: DE102011122421 (A1) 2013-06-27	Priority date: 2011-12-24
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48. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

★ Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE] (+1)	CPC: <u>B60W30/06</u> <u>B62D1/00</u> <u>B62D15/025</u> (+4)	IPC: B62D15/02	Publication info: US2013116879 (A1) 2013-05-09 US9168954 (B2) 2015-10-27	Priority date: 2010-05-12
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49. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

★ Inventor: TERKES MEHMET [DE] WUTTKE ULRICH [DE] (+2)	Applicant: TERKES MEHMET [DE] WUTTKE ULRICH [DE] (+3)	CPC: <u>B60W30/06</u> <u>B62D15/028</u> <u>B62D15/0285</u>	IPC: B62D15/02	Publication info: US2013116878 (A1) 2013-05-09 US9272733 (B2) 2016-03-01	Priority date: 2010-05-12
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50. METHOD FOR PULLING A VEHICLE INTO OR OUT OF A PARKING SPACE AND CORRESPONDING ASSISTANCE SYSTEM AND VEHICLE

★ Inventor: WUTTKE ULRICH [DE] HUEGER PHILIPP [DE] (+1)	Applicant: WUTTKE ULRICH [DE] HUEGER PHILIPP [DE]	CPC: <u>B60W10/20</u> <u>B60W2050/143</u> <u>B60W2050/146</u> (+10)	IPC: B62D15/02	Publication info: US2013110342 (A1) 2013-05-02 US9505435 (B2) 2016-11-29	Priority date: 2010-05-12
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Question

- Where was this patent application filed?

Record

Bibliographic data: **US2013116879 (A1)** — 2013-05-09

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METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

Page bookmark: [US2013116879 \(A1\) - METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE](#)

Inventor(s): HUEGER PHILIPP [DE]; WUTTKE ULRICH [DE] ±

Applicant(s): HUEGER PHILIPP [DE]; WUTTKE ULRICH [DE]; **VOLKSWAGEN** AG [DE] ±

Classification: - international: **B62D15/02**

- cooperative: **B60W30/06**; **B62D15/025**; **B62D15/0275**; **B62D15/028**; **B62D15/0285**; B62D1/00; **B62D15/027**

Application number: US201113697350 20110331  [Global Dossier](#)

Priority number(s): [DE20101020204 20100512](#) ; [WO2011EP01622 20110331](#)

Also published as: [CN102985309 \(A\)](#) [CN102985309 \(B\)](#) [DE102010020204 \(A1\)](#) [EP2569204 \(A1\)](#) [EP2569204 \(B1\)](#)
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Abstract of US2013116879 (A1)

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A method to park a vehicle using a parking assistance system, a target position of the vehicle within a parking space is automatically determined. A parking process of the parking assistance system is considered successfully ended when the vehicle reaches the target position. In order to carry out the parking process of the parking assistance system, a steering intervention in a steering system of the vehicle is automatically activated. A state that prevents the target position from being reached is automatically detected during the parking process. Depending on the state, the target position is newly determined and the parking process is continued with the newly determined target position.

Question

■ If a patent has been granted for an invention related to parking assist technologies in the United States, can it be enforced in Germany?

→ No, unless an equivalent patent has been granted in Germany.

→ Patents are territorial in nature.

Patent families

- After filing an initial patent application, a patent applicant may file further applications while retaining the same priority date
 - Patent documents linked this way are members of a "patent family"
- Useful for retrieving equivalent patent documents filed in different countries

Record: Patent families

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Bibliographic data: US2013116879 (A1) — 2013-05-09

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METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

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Inventor(s): HUEGER PHILIPP [DE]; WUTTKE ULRICH [DE] ±

Applicant(s): HUEGER PHILIPP [DE]; WUTTKE ULRICH [DE]; **VOLKSWAGEN** AG [DE] ±

Classification: - international: **B62D15/02**

- cooperative: **B60W30/06; B62D15/025; B62D15/027 5; B62D15/028; B62D15/0285; B62D1/00; B62D15/027**

Application number: US201113697350 20110331 Global Dossier

Priority number(s): [DE20101020204](#) [20100512](#) ; [WO2011EP01622](#) [20110331](#)

Also published as: [US9168954 \(B2\)](#) [DE102010020204 \(A1\)](#) [WO2011141096 \(A1\)](#) [EP2569204 \(A1\)](#) [EP2569204 \(B1\)](#) [CN102985309 \(A\)](#) [CN102985309 \(B\)](#) → less

Abstract of US2013116879 (A1)

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Family list: US2013116879 (A1) — 2013-05-09

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5 application(s) for: US2013116879 (A1)

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1. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE] (+1)	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B62D15/02	Publication info: US2013116879 (A1) 2013-05-09 US9168954 (B2) 2015-10-27  Global Dossier	Priority date: 2010-05-12
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2. Method for parking a vehicle and corresponding parking assistance system and vehicle

★	Inventor: HUEGER PHILIPP WUTTKE ULRICH	Applicant: VOLKSWAGEN AG	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: CN102985309 (A) 2013-03-20 CN102985309 (B) 2016-01-20  Global Dossier	Priority date: 2010-05-12
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3. Verfahren zum Einparken eines Fahrzeugs sowie entsprechendes Einparkassistenzsystem und Fahrzeug

★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D5/04 B62D6/00 (+1)	Publication info: DE102010020204 (A1) 2011-11-17	Priority date: 2010-05-12
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4. PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE

★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: EP2569204 (A1) 2013-03-20 EP2569204 (B1) 2014-12-31  Global Dossier	Priority date: 2010-05-12
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5. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE] HUEGER PHILIPP [DE] (+1)	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: WO2011141096 (A1) 2011-11-17  Global Dossier	Priority date: 2010-05-12
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Patent applications filed in Germany...


...and through the European Patent Office

Task breakdown


- Access Espacenet
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 - classification
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- **Review legal status information**
- Review procedural documentation

Record: INPADOC patent family

1. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

★ Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE] (+1)	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B62D15/02	Publication info: US2013116879 (A1) 2013-05-09 US9168954 (B2) 2015-10-27  Global Dossier	Priority date: 2010-05-12
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2. Method for parking a vehicle and corresponding parking assistance system and vehicle

★ Inventor: HUEGER PHILIPP WUTTKE ULRICH	Applicant: VOLKSWAGEN AG	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: CN102985309 (A) 2013-03-20 CN102985309 (B) 2016-01-20  Global Dossier	Priority date: 2010-05-12
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3. Verfahren zum Einparken eines Fahrzeugs sowie entsprechendes Einparkassistenzsystem und Fahrzeug

★ Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D5/04 B62D6/00 (+1)	Publication info: DE102010020204 (A1) 2011-11-17	Priority date: 2010-05-12
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4. PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE

★ Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: EP2569204 (A1) 2013-03-20 EP2569204 (B1) 2014-12-31  Global Dossier	Priority date: 2010-05-12
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5. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE

★ Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE] HUEGER PHILIPP [DE] (+1)	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: WO2011141096 (A1) 2011-11-17  Global Dossier	Priority date: 2010-05-12
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Record: Patent family member

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Bibliographic data: EP2569204 (A1) — 2013-03-20

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PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE

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Inventor(s): HUEGER PHILIPP [DE]; WUTTKE ULRICH [DE] ±

Applicant(s): VOLKSWAGEN AG [DE] ±

Classification: - international: [B60W30/06](#); [B62D15/02](#); [B62D5/00](#); [G05D1/02](#)

- cooperative: [B60W30/06](#); [B62D15/025](#); [B62D15/0275](#); [B62D15/028](#); [B62D15/0285](#); [B62D1/00](#); [B62D15/027](#)

Application number: EP20110713183 20110331 [Global Dossier](#)

Priority number(s): [DE20101020204 20100512](#); [WO2011EP01622 20110331](#)

Also published as: [EP2569204 \(B1\)](#) [DE102010020204 \(A1\)](#) [US2013116879 \(A1\)](#) [US9168954 \(B2\)](#) [WO2011141096 \(A1\)](#)
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Abstract not available for EP2569204 (A1)

Abstract of corresponding document: DE102010020204 (A1)

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Zum Einparken eines Fahrzeugs (10) unter Verwendung eines Einparkassistentensystems (20) wird automatisch eine Zielposition des Fahrzeugs innerhalb einer Parklücke bestimmt. Dabei gilt ein Einparkvorgang des Einparkassistentensystems (20) als erfolgreich beendet, wenn die Zielposition (1) durch das Fahrzeug (10) erreicht wird. Um den Einparkvorgang des Einparkassistentensystems (20) durchzuführen, wird automatisch ein Lenkeingriff in eine Lenkung (8) des Fahrzeugs (10) aktiviert. Dabei wird automatisch ein Zustand während des Einparkvorgangs erfasst, welcher ein Erreichen der Zielposition (1) verhindert. Abhängig von diesem Zustand wird eine Neubestimmung der Zielposition (2) durchgeführt und der Einparkvorgang mit der neu bestimmten Zielposition (2) fortgesetzt.

Record: INPADOC legal status

INPADOC legal status: EP2569204 (A1) — 2013-03-20

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PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE

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Legal status of EP2569204 (A1) 2013-03-20; EP2569204 (B1) 2014-12-31:

EP	F	11713183 A (Patent of invention)
Event date :	2013/03/20	
Event code :	17P	
Code Expl.:	+ REQUEST FOR EXAMINATION FILED	
EFFECTIVE DATE :	20121212	
Event date :	2013/03/20	
Event code :	AK	
Code Expl.:	+ DESIGNATED CONTRACTING STATES:	
KD OF CORRESP. PAT. :	A1	
DESIGNATED COUNTR. :	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR	
Event date :	2013/03/27	
Event code :	RIN1	
Code Expl.:	INVENTOR (CORRECTION)	
INVENTOR NAME :	HUEGER, PHILIPP	

Record: European Patent Register



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EP2569204 - PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE [Right-click to bookmark this link]

Status	No opposition filed within time limit <small>Status updated on 06.11.2015 Database last updated on 18.06.2018</small>		
Most recent event ⓘ	13.10.2017	Lapse of the patent in a contracting state New state(s): BE, BG, CY, HU, PT, SM, TR	published on 15.11.2017 → [2017/46]
Applicant(s)	For all designated states Volkswagen Aktiengesellschaft 38436 Wolfsburg / DE [2015/01]		
Inventor(s)	01 / HÜGER, Philipp Salweidenring 19 38471 Rühren / DE 02 / WUTTKE, Ulrich Schillerstr. 22 38126 Braunschweig / DE ↗ [2013/13]		
Application number, filing date	11713183.9	31.03.2011	
	WO2011EP01622		
Priority number, date	DE20101020204	12.05.2010	Original published format: DE102010020204
	[2013/12]		
Filing language	DE		
Procedural language	DE		
Publication	Type:	A1 Application with search report	

European Patent Register: Legal status

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AL	
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→ BG	Lapse: 31.12.2014
→ CH	Lapse: 31.03.2015
CY	Lapse: 31.12.2014
→ CZ	Lapse: 31.12.2014
→ DE	
→ DK	Lapse: 31.12.2014
→ EE	Lapse: 31.12.2014
→ ES	Lapse: 31.12.2014
→ FI	Lapse: 31.12.2014
→ FR	
→ GB	
→ GR	Lapse: 01.04.2015
→ HR	Lapse: 31.12.2014
→ HU	Lapse: 31.03.2011
→ IE	Lapse: 31.03.2015
→ IS	Lapse: 30.04.2015
→ IT	Lapse: 31.12.2014
LI	Lapse: 31.03.2015
→ LT	Lapse: 31.12.2014

Legal Status in Germany



DPMaregister

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DE file number : 50 2011 005 472.6
EP file number: 11 71 3183.9
WO file number: PCT/EP2011/001622
EP publication number: 2569204
WO publication number: 2011141096
Type of IP right: Patent
Status: pending / in force
Status on: June 19, 2018 (Most recent update in DPMaregister: Apr 11, 2018)

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21	DE file number	DAKZ	50 2011 005 472.6
96	EP file number	EAKZ	11 71 3183.9
86	WO file number	WAKZ	PCT/EP2011/001622
97	EP publication number	EPN	2569204
87	WO publication number	WPN	2011141096
54	Designation/title	TI	VERFAHREN ZUM EINPARKEN EINES FAHRZEUGS SOWIE ENTSPRECHENDES EINPARKASSISTENZSYSTEM UND FAHRZEUG
51	IPC main class	ICM (ICMV)	B62D 5/00 (2006.01)
51	IPC secondary class(es)	ICS (ICSV)	B62D 15/02 (2006.01) G05D 1/02 (2006.01) B60W 30/06 (2006.01)
22	DE application date	DAT	Mar 31, 2011
96	EP application date	EAT	Mar 31, 2011
86	WO application date	WAT	Mar 31, 2011
43	Date of first publication	OT	Nov 17, 2011

Legal Status in Germany

22	DE application date	DAT	Mar 31, 2011
96	EP application date	EAT	Mar 31, 2011
86	WO application date	WAT	Mar 31, 2011
43	Date of first publication	OT	Nov 17, 2011
	Date of publication of grant	PET	Dec 31, 2014
71/73	Applicant/owner	INH	VOLKSWAGEN AKTIENGESELLSCHAFT, 38440 Wolfsburg, DE
72	Inventor	IN	HÜGER, Philipp, 38471 Rühren, DE WUTTKE, Ulrich, 38126 Braunschweig, DE
	Address for service		VOLKSWAGEN Aktiengesellschaft, 38436 Wolfsburg, DE
66	Domestic priority	PRN	102010020204
66		PRD	May 12, 2010
	Due date	FT	Mar 31, 2019
		FG	Annual fee for the 9th year
	Patent division in charge		21
97	EP language of publication	ELANG	DE - Deutsch
84	Designated EP contracting states	EDS	AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR
	Published EP/WO documents	EPWOPN	<ul style="list-style-type: none"> Original document: EP000002569204; Searchable text: EP000002569204 Original document: EP000002569204B1; Searchable text: EP000002569204B1 Original document: WO002011141096; Searchable text: WO002011141096
	Day of the first transfer into DPMRegister	EREGT	May 2, 2013
	Day of the (most recent) update in DPMRegister	REGT	Apr 11, 2018 (Show all update days)

Procedural data

Record: European Patent Register



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PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE

Application No.	Publication No.	Applicant	IPC
EP11713183	EP2569204	Volkswagen Aktiengesellschaft	B62D5/00 B62D15/02 G05D1/02 (+1)

Only designated contracting states and extension states providing the Federated Register Service are listed below.

Status	Application No.	Publication No.	Proprietor	Invalidation date	Not in force since	Renewal fees last paid	Record last updated
→ AT Patent lapsed	EP11713183	EP2569204	Volkswagen Aktiengesellschaft	11.04.2017	31.03.2016	---	---
→ BA No data provided by the national patent office for this patent							
→ BE Patent lapsed	EP11713183	EP2569204	Volkswagen Aktiengesellschaft	---	31.03.2015	---	07.02.2018
→ BG No data provided by the national patent office for this patent							
→ CH Patent not in force	EP11713183	EP2569204	Volkswagen Aktiengesellschaft	---	31.03.2015	---	04.11.2015
→ CZ No data provided by the national patent office for this patent							
→ ES Patent not validated	E11713183	EP2569204	Volkswagen Aktiengesellschaft	---	---	---	---
→ FI Patent not validated	EP11713183	EP2569204	Volkswagen Aktiengesellschaft	---	---	---	19.06.2018
→ GB Patent in force	EP11713183	EP2569204	Volkswagen Aktiengesellschaft	---	---	29.03.2018	---
→ GR No data provided by the national patent office for this patent							
→ HR No data provided by the national patent office for this patent							
→ IE Patent lapsed	EP11713183	EP2569204	Volkswagen Aktiengesellschaft	23.12.2015	23.12.2015	---	23.12.2015

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- Legal status data may not always be up-to-date.

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- Review legal status information
- **Review procedural documentation**

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Bibliographic data: EP2569204 (A1) — 2013-03-20

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PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE

Page bookmark [EP2569204 \(A1\) - PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE](#)

Inventor(s): HUEGER PHILIPP [DE]; WUTTKE ULRICH [DE] ±

Applicant(s): VOLKSWAGEN AG [DE] ±

Classification: - international: **B60W30/06; B62D15/02; B62D5/00; G05D1/02**

cooperative: **B60W30/06; B62D15/025; B62D15/0275; B62D15/028; B62D15/0285; B62D1/00; B62D15/027**

Application number: **EP20110713183 20110331**  [Global Dossier](#)

Also published as: [EP2569204 \(B1\)](#) [DE102010020204 \(A1\)](#) [US2013116879 \(A1\)](#) [US9168954 \(B2\)](#) [WO2011141096 \(A1\)](#)
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Abstract not available for EP2569204 (A1)
Abstract of corresponding document: DE102010020204 (A1)

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Zum Einparken eines Fahrzeugs (10) unter Verwendung eines Einparkassistentensystems (20) wird automatisch eine Zielposition des Fahrzeugs innerhalb einer Parklücke bestimmt. Dabei gilt ein Einparkvorgang des Einparkassistentensystems (20) als erfolgreich beendet, wenn die Zielposition (1) durch das Fahrzeug (10) erreicht wird. Um den Einparkvorgang des Einparkassistentensystems (20) durchzuführen, wird automatisch ein Lenkeingriff in eine Lenkung (8) des Fahrzeugs (10) aktiviert. Dabei wird automatisch ein Zustand während des Einparkvorgangs erfasst, welcher ein Erreichen der Zielposition (1) verhindert. Abhängig von diesem Zustand wird eine Neubestimmung der Zielposition (2) durchgeführt und der Einparkvorgang mit der neu bestimmten Zielposition (2) fortgesetzt.

Global Dossier

Global Dossier

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All documents(38) Search

<input type="checkbox"/>	Date	Document type	Procedure	Number of pages
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<input type="checkbox"/>	21.12.2014	Transmission of the certificate	Search / examination	1
<input type="checkbox"/>	04.12.2014	Decision to grant a European patent	Search / examination	2
<input type="checkbox"/>	19.09.2014	Bibliographic data of the European patent application	Search / examination	2
<input type="checkbox"/>	19.09.2014	Communication about intention to grant a European patent	Search / examination	5
<input type="checkbox"/>	19.09.2014	Intention to grant (signatures)	Search / examination	1
<input type="checkbox"/>	19.09.2014	Text intended for grant	Search / examination	13
<input type="checkbox"/>	27.06.2014	Examination started	Search / examination	1
<input type="checkbox"/>	14.08.2013	(Electronic) Receipt	Search / examination	1
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<input type="checkbox"/>	04.03.2013	Amended claims filed after receipt of (European) search report	Search / examination	3
<input type="checkbox"/>	04.03.2013	Amended claims with annotations	Search / examination	4

European Patent Register



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Volkswagen Aktiengesellschaft
38436 Wolfsburg
ALLEMAGNE

Datum	04.12.14
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Zeichen K17267 WO/EP	Anmeldung Nr./Patent Nr. 11713183.9 - 1755 / 2569204
Anmelder/Patentinhaber Volkswagen Aktiengesellschaft	

Entscheidung über die Erteilung eines Europäischen Patents gemäß Artikel 97 (1) EPÜ

Nach Prüfung der europäischen Patentanmeldung Nr. 11713183.9 wird für die benannten Vertragsstaaten ein europäisches Patent mit der Bezeichnung und mit den Unterlagen erteilt, die in der gemäß



Global Dossier

Family list: US2013116879 (A1) — 2013-05-09

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5 application(s) for: US2013116879 (A1)

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<input type="checkbox"/>	1. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE					
★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE] (+1)	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B62D15/02	Publication info: US2013116879 (A1) 2013-05-09 US9168954 (B2) 2015-10-27  Global Dossier	Priority date: 2010-05-12
<input type="checkbox"/>	2. Method for parking a vehicle and corresponding parking assistance system and vehicle					
★	Inventor: HUEGER PHILIPP WUTTKE ULRICH	Applicant: VOLKSWAGEN AG	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: CN102985309 (A) 2013-03-20 CN102985309 (B) 2016-01-20  Global Dossier	Priority date: 2010-05-12
<input type="checkbox"/>	3. Verfahren zum Einparken eines Fahrzeugs sowie entsprechendes Einparkassistenzsystem und Fahrzeug					
★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D5/04 B62D6/00 (+1)	Publication info: DE102010020204 (A1) 2011-11-17	Priority date: 2010-05-12
<input type="checkbox"/>	4. PROCESS FOR AUTOMATIC PARKING OF A VEHICLE AND CORRESPONDING ASSISTING SYSTEM AND VEHICLE					
★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: EP2569204 (A1) 2013-03-20 EP2569204 (B1) 2014-12-31  Global Dossier	Priority date: 2010-05-12
<input type="checkbox"/>	5. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE					
★	Inventor: HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	Applicant: VOLKSWAGEN AG [DE] HUEGER PHILIPP [DE] (+1)	CPC: B60W30/06 B62D1/00 B62D15/025 (+4)	IPC: B60W30/06 B62D15/02 B62D5/00 (+1)	Publication info: WO2011141096 (A1) 2011-11-17  Global Dossier	Priority date: 2010-05-12

Scenario

- The automobile manufacturer has found a reference to a patent in the documentation of a car sold in the United States and would like you to retrieve this patent and any related patents.
- The patent number is 6,223,847.

Task breakdown

- Retrieve a specific patent document
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Task breakdown

- **Retrieve a specific patent document**
- Retrieve closely related documents

Search: Advanced search interface

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The main content area is divided into several sections:

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Question

- Is 6,223,847 an application number or a publication number?

Search: Smart search interface

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6,223,847 → 6223847 (or US6223847)

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3 results found in the Worldwide database for:
num = 6223847 using Smart search

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1. CONTROL DEVICE OF GAS TURBINE, GAS TURBINE, AND CONTROL METHOD OF GAS TURBINE

★ Inventor: SONODA TAKASHI AZUMA KAZUYA (+1)	Applicant: MITSUBISHI HITACHI POWER SYS	CPC: F02C9/20 F02C9/22 F02C9/54 (+5)	IPC: F01D17/00 F01D17/04 F01D17/10 (+7)	Publication info: JP2015148168 (A) 2015-08-20 JP 6223847 (B2) 2017-11-01	Priority date: 2014-02-05
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2. Automatic steering apparatus for vehicle

★ Inventor: SHIMIZU YASUO [JP] SAKAI KATSUHIRO [JP]	Applicant: HONDA MOTOR CO LTD [US]	CPC: B60T2201/10 B62D15/028 B62D15/0285	IPC: B60R21/00 B62D15/02 B62D6/00 (+4)	Publication info: JP 6223847 (B1) 2017-05-01	Priority date: 1997-04-15
---	--	---	---	--	-------------------------------------

3. OPERATION/MOUNTING ACCURACY VERIFYING APPARATUS FOR SPEED DETECTING SECTION AND PART TO BE DETECTED

★ Inventor: MIURA HIDEFUMI TSUJI MASANOBU (+1)	Applicant: MEIDENSHA ELECTRIC MFG CO LTD	CPC:	IPC: G01M1/16 G01P21/00 G01P21/02 (+2)	Publication info: JPH0886807 (A) 1996-04-02 JP3211582 (B2) 2001-09-25	Priority date: 1994-09-20
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Record

US6223847 (B1)

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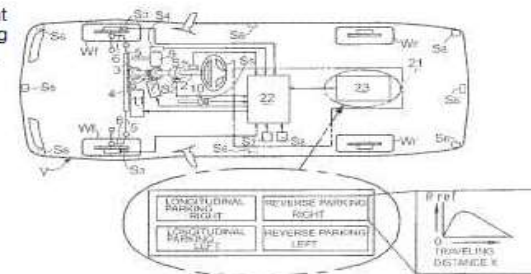
Automatic steering apparatus for vehicle

Page bookmark	US6223847 (B1) - Automatic steering apparatus for vehicle
Inventor(s)	SHIMIZU YASUO [JP]; SAKAI KATSUHIRO [JP] ±
Applicant(s)	HONDA MOTOR CO LTD [US] ±
Classification:	- international: B60R21/00 ; B62D15/02 ; B62D6/00 ; B62D113/00 ; B62D119/00 ; B62D137/00 ; (IPC1-7): B62D1/00 - cooperative: B62D15/028 ; B62D15/0285 ; B60T2201/10
Application number:	US19980059384 19980414
Priority number(s):	JP19970097603 19970415 ; JP19970357996 19971225
Also published as:	<input type="checkbox"/> JPH1111177 (A) <input type="checkbox"/> JP3683091 (B2)


Abstract of US6223847 (B1)

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If a driver starts an automatic parking control operation with a vehicle V stopped at a starting position, the vehicle V is guided from the starting position via a reversing position to a target position. Left and right markers are provided on the vehicle V. The vehicle V can be stopped at the starting position by aligning any of the markers with the center line of a parking position.




Description

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Description: US6223847 (B1) — 2001-05-01

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Automatic steering apparatus for vehicle

Description of US6223847 (B1)

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BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to an automatic steering apparatus for a vehicle, to automatically park the vehicle without recourse to steering by a driver.

2. Description of the Related Art

Automatic steering apparatuses for vehicles are already known from Japanese Patent Application Laid-open Nos. 3-74256 and 4-55168. These automatic steering apparatuses for vehicles utilize an actuator of a conventionally well-known electrically powered steering device, and are adapted to automatically carry out reverse parking and longitudinal parking of a vehicle by controlling the actuator based on a relationship between distance of movement of the vehicle and a steering angle which are stored in advance.

When the automatic parking operation is to be carried out by the automatic steering apparatus, the vehicle is first stopped at a starting position, which is in a given positional relationship to a target or completion position at which the vehicle is to be parked. The automatic parking control operation is then started at the starting position. Therefore, if the vehicle is not correctly stopped, a deviation is generated from the target position which the vehicle reaches using the automatic parking control operation. However, in the prior art, a driver stops the vehicle at the starting position by visual estimation of the starting position. Hence, it is difficult to avoid an error due to a deviation in the starting position.

SUMMARY OF THE INVENTION

Claims

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Bibliographic data
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Automatic steering apparatus for vehicle

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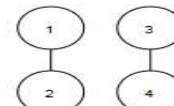
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Original claims	Claims tree
------------------------	--------------------

The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.

- What is claimed is:
1. An automatic steering apparatus for a vehicle, comprising:
 - a movement locus determining means for one of storing and calculating a locus of movement of the vehicle to a target position;
 - an actuator for steering wheels of the vehicle;
 - a control means for controlling driving of said actuator based on the locus of movement determined by said movement locus determining means to move the vehicle, which is stopped at a starting position, to said target position; and
 - a marker provided for stopping the vehicle at said starting position by a driver, wherein said marker is provided on the vehicle, and wherein said marker emits light or sound by operating a manual switch and said manual switch is a switch for selecting any of a plurality of loci of movement stored in said movement locus determining means.
 2. An automatic steering apparatus for a vehicle according to claim 1, wherein when the vehicle starts to move from the starting position, emission of light or sound from said marker is stopped.
 3. An automatic steering apparatus for a vehicle, comprising:
 - a movement locus determining means for one of storing and calculating a locus of movement of the vehicle to a target position;
 - an actuator for steering wheels of the vehicle;
 - a control means for controlling driving of said actuator based on the locus of movement determined by said movement locus determining means to move the vehicle, which is stopped at a starting position, to said target position; and
 - a marker provided for stopping the vehicle at said starting position by a driver, wherein said marker is brought into a visually perceivable state by operating a manual switch and wherein when the vehicle starts to move from the starting position, the marker is brought into a visually non-perceivable state.
 4. An automatic steering apparatus for a vehicle according to claim 3, wherein said manual switch is a switch for selecting any of a plurality of loci of movement stored in said movement locus determining means.



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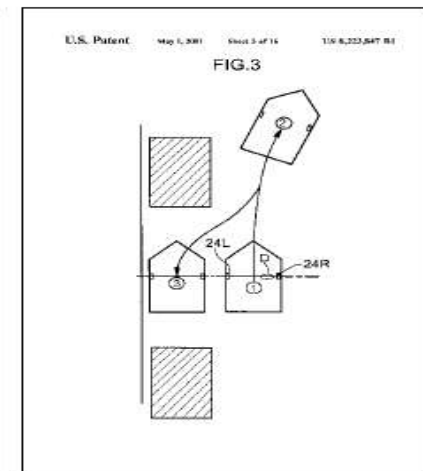
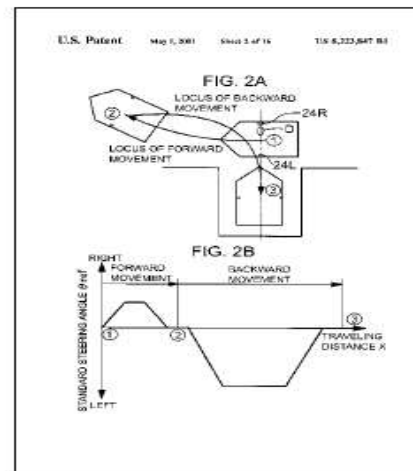
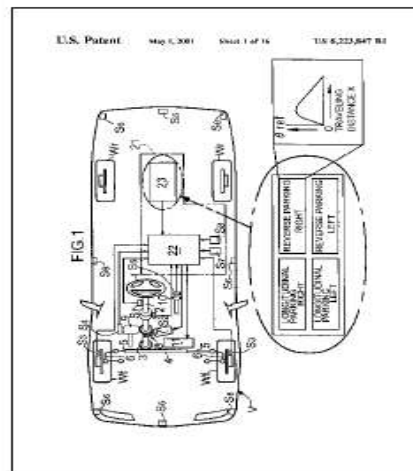
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Automatic steering apparatus for vehicle

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US006223847B1

(12) **United States Patent**
Shimizu et al.

(10) **Patent No.:** **US 6,223,847 B1**
(45) **Date of Patent:** **May 1, 2001**

(54) **AUTOMATIC STEERING APPARATUS FOR VEHICLE**

(75) Inventors: **Yasuo Shimizu; Katsuhiko Sakai**, both of Saitama (JP)

(73) Assignee: **Honda Giken Kogyo Kabushiki Kaisha**, Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/059,384**

(22) Filed: **Apr. 14, 1998**

(30) **Foreign Application Priority Data**

Apr. 15, 1997 (JP) 9-097603
Dec. 25, 1997 (JP) 9-357996

(51) **Int. Cl.**⁷ **B62D 1/00**

4,016,653	*	4/1977	Bartlett	.....	33/264
4,257,706	*	3/1981	Smith	.....	356/3
4,755,791	*	7/1988	Kuroda	.....	340/115
4,823,471	*	4/1989	Van Schaack	.....	33/284
4,941,263	*	7/1990	Hirshberg	.....	33/264
5,052,113	*	10/1991	Aquino	.....	33/264
5,742,141	*	4/1998	Czekaj	.....	318/587
5,764,015	*	6/1998	Shimizu et al.	.....	180/443
5,945,799	*	8/1999	Shimizu et al.	.....	318/587

FOREIGN PATENT DOCUMENTS

3-74256 3/1991 (JP) .
4-55168 2/1992 (JP) .

* cited by examiner

Primary Examiner—Anne Marie Boehler

(74) *Attorney, Agent, or Firm*—Arent Fox Kintner Plotkin & Kahn PLLC

Record: Document



US006223847B1

(12) **United States Patent**
Shimizu et al.

(10) **Patent No.:** US 6,223,847 B1

(45) **Date of Patent:** May 1, 2001

(54) **AUTOMATIC STEERING APPARATUS FOR VEHICLE**

(75) Inventors: **Yasuo Shimizu; Katsuhiko Sakai**, both of Saitama (JP)

(73) Assignee: **Honda Giken Kogyo Kabushiki Kaisha**, Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

4,016,653 * 4/1977 Bartlett 33/264
 4,257,706 * 3/1981 Smith 356/3
 4,755,791 * 7/1988 Kuroda 340/115
 4,823,471 * 4/1989 Van Schaack 33/284
 4,941,263 * 7/1990 Hirschberg 33/264
 5,052,113 * 10/1991 Aquino 33/264
 5,742,141 * 4/1998 Czekaj 318/587
 5,764,015 * 6/1998 Shimizu et al. 180/443
 5,945,799 * 8/1999 Shimizu et al. 318/587

FOREIGN PATENT DOCUMENTS

3-74256 3/1991 (JP) .
 4-55168 2/1992 (JP) .

* cited by examiner

(21) Appl. No.: **09/059,384**

(22) Filed: **Apr. 14, 1998**

(30) **Foreign Application Priority Data**

Apr. 15, 1997 (JP) 9-097603
 Dec. 25, 1997 (JP) 9-357996

(51) **Int. Cl.⁷** **B62D 1/00**

(52) **U.S. Cl.** **180/204**; 116/28 R; 180/446; 318/587

(58) **Field of Search** 180/204, 167, 180/168, 169, 199, 401, 446; 280/761; 340/932.2, 479.3, 491.3, 478.1, 435; 116/204, 205, DIG. 43, 35 R, 36, 42, 28 R; 318/587; 33/264; 701/25

Primary Examiner—Anne Marie Boehler
 (74) *Attorney, Agent, or Firm*—Arent Fox Kintner Plotkin & Kahn PLLC

(57) **ABSTRACT**

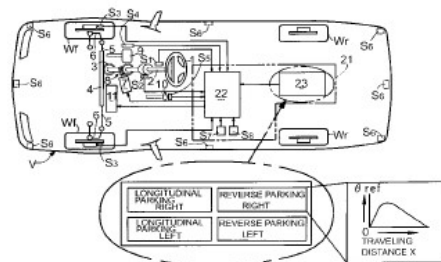
If a driver starts an automatic parking control operation with a vehicle V stopped at a starting position, the vehicle V is guided from the starting position via a reversing position to a target position. Left and right markers are provided on the vehicle V. The vehicle V can be stopped at the starting position by aligning any of the markers with the center line of a parking position.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,117,642 * 1/1964 Larinof 180/204

4 Claims, 16 Drawing Sheets



Translations

US6223847 (B1)

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Automatic steering apparatus for vehicle

Page bookmark	US6223847 (B1) - Automatic steering apparatus for vehicle
Inventor(s):	SHIMIZU YASUO [JP]; SAKAI KATSUHIRO [JP] ±
Applicant(s):	HONDA MOTOR CO LTD [US] ±
Classification:	- international: B60R21/00; B62D15/02; B62D6/00; B62D113/00; B62D119/00; B62D137/00; (IPC1-7): B62D1/00 - cooperative: B62D15/028; B62D15/0285; B60T2201/10
Application number:	US19980059384 19980414
Priority number(s):	JP19970097603 19970415 ; JP19970357996 19971225
Also published as:	□ JPH111177 (A) □ JP3683091 (B2)

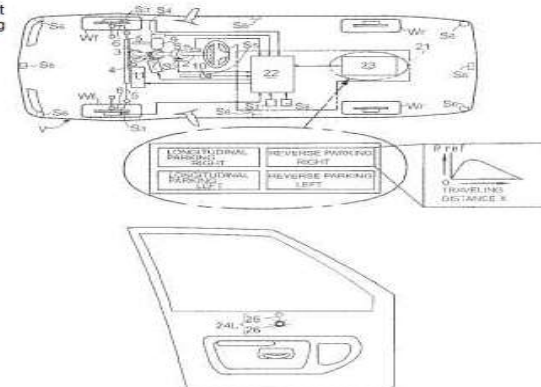
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parking control operation with a vehicle V stopped at a parking position. The vehicle V is guided from the starting position via a reversing operation to a parking position. Left and right markers are provided on the vehicle V. The vehicle V is positioned at the starting position by aligning any of the markers with the markers of a parking position.



Translation



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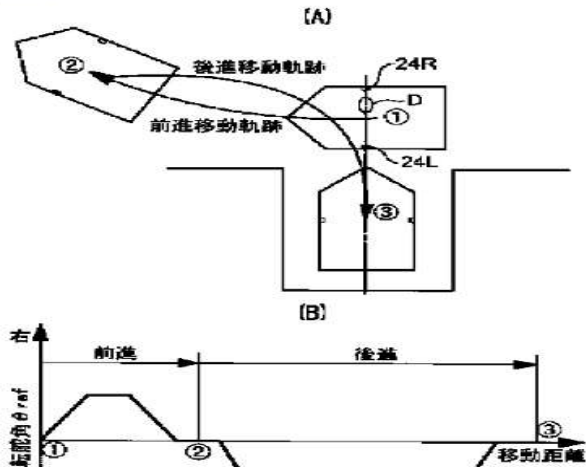
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РЕФЕРАТ US6223847

Если водитель начинает автоматическую операцию управления парковки с транспортным средством V остановившись в исходном положении, транспортное средство V направляется из исходного положения с помощью реверсивного положения в конечное положение. Левый и правый маркеры предусмотрены на транспортном средстве V. Транспортное средство V может быть остановлено в исходное положение, совместив любой из маркеров с центральной линией положения парковки.



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Automatic steering apparatus for vehicle

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(12) **United States Patent** (10) **Patent**
Shimizu et al. (45) **Date of**

(54)	AUTOMATIC STEERING APPARATUS FOR VEHICLE	4,016,653 * .
		4,257,706 * .
		4,755,791 * .
(75)	Inventors: Yasuo Shimizu; Katsuhiko Sakai , both of Saitama (JP)	4,823,471 * .
		4,941,263 * .
		5,052,113 * .
(73)	Assignee: Honda Giken Kogyo Kabushiki Kaisha , Tokyo (JP)	5,742,141 * .
		5,764,015 * .
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1. [Automobile automatic-parking device](#)

★	Inventor: LARINOFF MICHAEL W	Applicant:	CPC: B60T2201/10 B62D15/0285	IPC: B62D15/00	Publication info: US3117642 (A) 1964-01-14	Priority date: 1956-11-13
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2. [Sighting device for a vehicle](#)

★	Inventor: BARTLETT JOSEPH E	Applicant: BARTLETT JOSEPH E	CPC: B62D15/02	IPC: B62D15/02 (IPC1- 7):B60Q1/26 G01C21/04	Publication info: US4016653 (A) 1977-04-12	Priority date: 1975-07-11
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10. Automatic steering system for vehicle

★ Inventor: SHIMIZU YASUO [JP]	Applicant: HONDA MOTOR CO LTD [JP]	CPC: <u>B60T2201/10</u> <u>B62D15/0285</u>	IPC: B60R21/00 B62D15/02 B62D5/04 (+3)	Publication info: US5945799 (A) 1999-08-31	Priority date: 1996-10-09
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Patents cited by the applicant

11. ELECTRIC POWER STEERING AND CONCURRENTLY AUTOMATIC STEERING DEVICE FOR AUTOMOBILE

★ Inventor: FUKAMACHI KAZUHIRO	Applicant: FUJI HEAVY IND LTD	CPC: <u>B62D1/286</u>	IPC: B62D1/28 B62D5/04 B62D6/00 (+6)	Publication info: JPH0374256 (A) 1991-03-28	Priority date: 1989-06-08
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12. STEERING DEVICE AND AUTOMATIC STEERING SYSTEM

★ Inventor: MASAKI RYOZO MORINAGA SHIGEKI (+2)	Applicant: HITACHI LTD	CPC: <u>B62D1/286</u> <u>B62D15/0285</u>	IPC: B62D1/28 B62D15/02 B62D5/04 (+11)	Publication info: JPH0455168 (A) 1992-02-21	Priority date: 1990-06-15
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1. [Automobile automatic-parking device](#)

★ Inventor: LARINOFF MICHAEL W	Applicant:	CPC: B60T2201/10 B62D15/0285	IPC: B62D15/00
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2. [Sighting device for a vehicle](#)

★ Inventor: BARTLETT JOSEPH E	Applicant: BARTLETT JOSEPH E	CPC: B62D15/02	IPC: B62D15/02 (IPC1-7):B60Q1/26 G01C21/04
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1. Parking auxiliary apparatus

★	Inventor: HIROKI INAGAKI KATSUHIRO SAKAI (+2)	Applicant: AISIN SEIKI HONDA MOTOR CO LTD	CPC: B60T2201/10 B60W10/20 B60W2550/10 (+3)	IPC: B60W40/04 B62D15/02	Publication info: CN105539585 (A) 2016-05-04	Priority date: 2014-10-27
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2. DRIVER ASSISTANCE SYSTEM AND DRIVER ASSISTANCE METHOD WITH POSITION CONTROL

★	Inventor: FISCHER RAPHAEL [DE] VOGLER TOBIAS [DE] (+1)	Applicant: SCHAEFFLER TECHNOLOGIES AG [DE]	CPC: B60K26/02 B60W30/18063 B60W30/18181 (+3)	IPC: B62D5/04	Publication info: US2016107678 (A1) 2016-04-21	Priority date: 2013-06-25
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3. INDUCTIVELY CHARGED VEHICLE WITH AUTOMATIC POSITIONING

★	Inventor: ICHIKAWA SHINJI [JP]	Applicant: TOYOTA MOTOR CO LTD [JP]	CPC: B60L11/123 B60L11/14 B60L11/182 (+22)	IPC: B60L11/18	Publication info: US2015306966 (A1) 2015-10-29 US9981566 (B2) 2018-05-29	Priority date: 2010-03-16
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4. POWER FEEDING SYSTEM FOR VEHICLE, ELECTRICALLY POWERED VEHICLE AND POWER FEEDING APPARATUS FOR VEHICLE

★	Inventor: ICHIKAWA SHINJI [JP]	Applicant: TOYOTA MOTOR CO LTD [JP]	CPC: B60L11/1803 B60L11/182 B60L11/1829 (+16)	IPC: B60L5/00 G05D1/02	Publication info: US2014324260 (A1) 2014-10-30 US9902271 (B2) 2018-02-27	Priority date: 2008-11-07
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5. METHOD OF CONTROLLING LIGHTS AND SYSTEM FOR MANAGING LIGHTS USING THE SAME

★	Inventor: YOO SEUNG-MOK [KR]	Applicant: INST ELECTRONICS & TELECOMM RE [US]	CPC: H05B37/02 H05B37/0227	IPC: H05B37/02	Publication info: US2013320864 (A1) 2013-12-05	Priority date: 2012-05-30
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ab	abstract	ab="mouse trap"
pr	priority number	pr=ep20050104792
pn	publication number	pn=ep1000000
ap	application number	ap=jp19890234567
pd	publication date	pd=20080107 OR pd="07/01/2008" OR pd=07/01/2008
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desc	description	desc=lens
claims	claims	claims=laser
ftxt	full text	ftxt=microscope
extftxt	full text, title and abstract	extftxt=nanoparticle
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1. **PARKING ASSISTANCE SYSTEM AND PARKING METHOD**

★	Inventor: ROHLFS MICHAEL [DE] CHLOSTA SVEN [DE]	Applicant: VOLKSWAGEN AG [DE] ROHLFS MICHAEL [DE] (+1)	CPC: B62D15/027	IPC: B62D15/02 (IPC1-7): B62D15/02	Publication info: WO2005100134 (A1) 2005-10-27	Priority date: 2004-04-16
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2. **Parking assisting system undertakes safety check of relevant functions and/or system parameters, whereby steering input demand is not carried out or interrupted if one these conditions is not fulfilled**

★	Inventor: ROHLFS MICHAEL [DE] CHLOSTA SVEN [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60T2201/10 B62D15/027 B62D15/028 (+4)	IPC: B62D15/02 G08G1/16 (IPC1-7): G08G1/16	Publication info: DE102005017362 (A1) 2005-11-10	Priority date: 2004-04-16
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3. **Parking assisting system undertakes safety check of relevant functions and/or system parameters, whereby steering input demand is not carried out or interrupted if one these conditions is not fulfilled**

★	Inventor: ROHLFS MICHAEL [DE] CHLOSTA SVEN [DE]	Applicant: VOLKSWAGEN AG [DE]	CPC: B60Q9/004 B60W30/06 B62D15/027 (+1)	IPC: B60Q1/48 B62D15/02 G08G1/16 (+2)	Publication info: DE102005017361 (A1) 2005-11-17	Priority date: 2004-04-16
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4. **Parking assisting system undertakes safety check of relevant functions and/or system parameters, whereby steering input demand is not carried out or interrupted if one these conditions is not fulfilled**

★	Inventor: ROHLFS MICHAEL [DE] SCHWITTERS FRANK [DE] (+1)	Applicant: VOLKSWAGEN AG [DE]	CPC: B62D15/027	IPC: B60R16/02 B62D15/02 G08G1/16 (+2)	Publication info: DE102005017360 (A1) 2005-11-10	Priority date: 2004-04-16
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Operators

- Boolean operators : AND, OR, NOT
- Comparison operators
- Range operator
- Wildcard operators
 - ? (zero or one characters)
 - # (one character exactly)
 - * (any number of characters)

Operators (Smart search only)

- Proximity operators

term1 prox/distance<n term2

term1 prox/unit=sentence term2

term1 prox/unit=paragraph term2

- Comparison operators

fieldcode all "term1 term2 term3 ..."

fieldcode any "term1 term2 term3 ..."

Operators

- Comparison operators (publication date)
 - pd >= year (greater or equal)
 - pd <= year (smaller or equal)
- Range operator (publication date)
 - pd within "year1 year2"

Wildcard operators

- Any number of characters : *
electr* → **electric**, **electron**, **electronic** ...
- Zero or one characters (stackable) : ?
forge? → forge, **forges**, **forget** ...
car?? → car, **cars**, **cart**, **carts** ... (not **carpet**)
- One character exactly : #
ri# → **rid**, **rip**, **rim** ...
foc## → **focus**, **focal** ...
- Can only be used at the end of a term

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Country code	Kind	First publication	Latest publication	Total coverage
AM	A	2001-06-10 AM949	2006-09-15 AM1813	3
AM	U	2009-10-26 AM170U	2010-04-26 AM194U	2
AP	A	1985-07-03 AP1	2017-03-29 AP4082	7 916
AP	U	2002-06-06 AP1U	2002-06-06 AP1U	1
AR	A	1965-02-11 AR142945	2018-04-25 AR107427	154 074

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AP	A	English	1985-07-03 AP1	2005-04-21 AP1368	1 377
AT	A	German	1975-01-15 ATA500273	2016-05-15 AT512487	13 032
AT	B	German	1899-07-10 AT1B	2016-03-15 AT516183B	421 646
AT	U	German	1994-07-25 AT1U	2016-03-15 AT14675U	14 644
AU	A	English	1924-04-03 AU1297123	2018-06-14 AU2016358708	1 031 994

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