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Patent Searching Using Espacenet

Kigali
June 27, 2018

Andrew Czajkowski
Head, Innovation and Technology Support Section

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**
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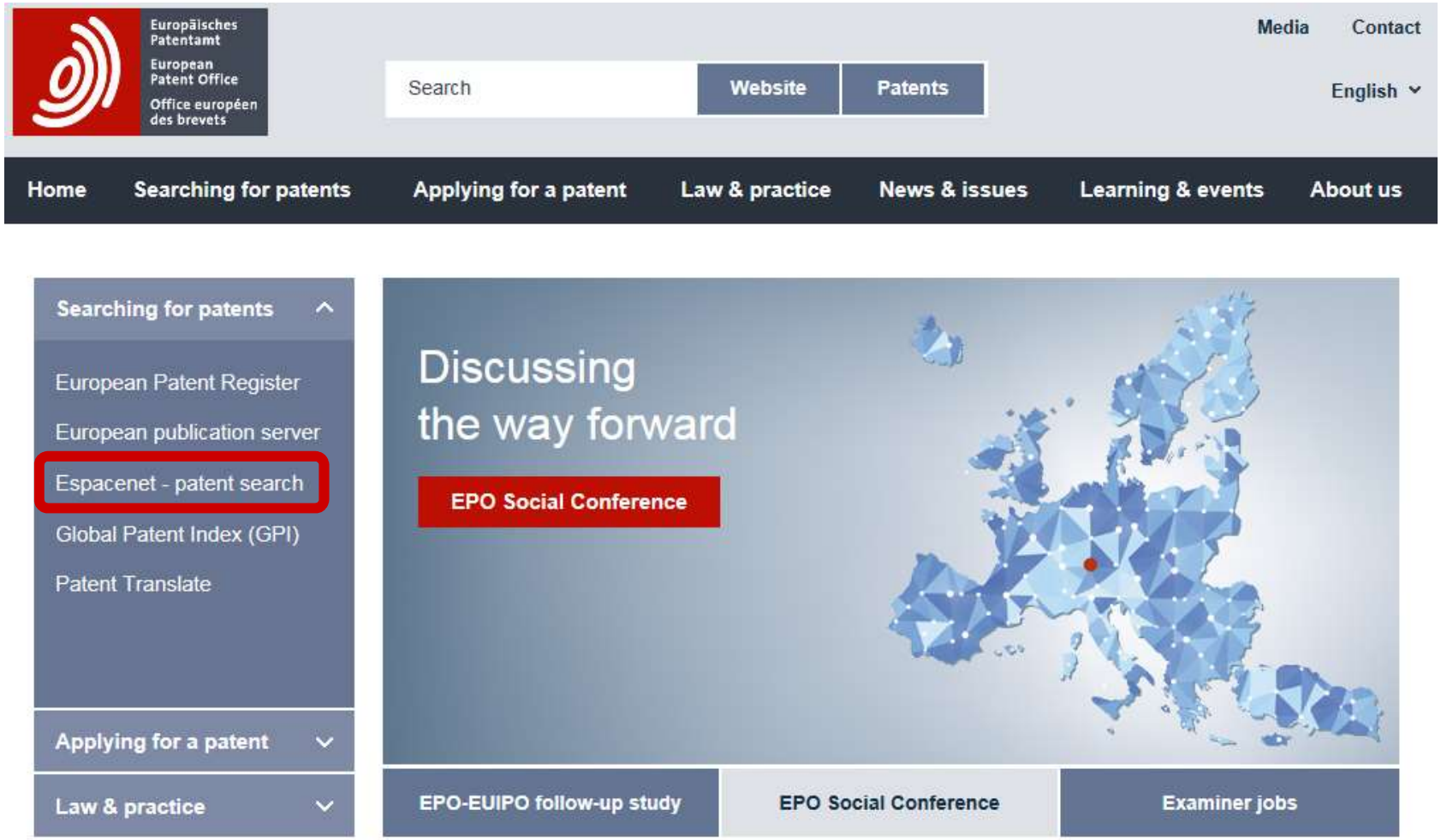
EPO Homepage



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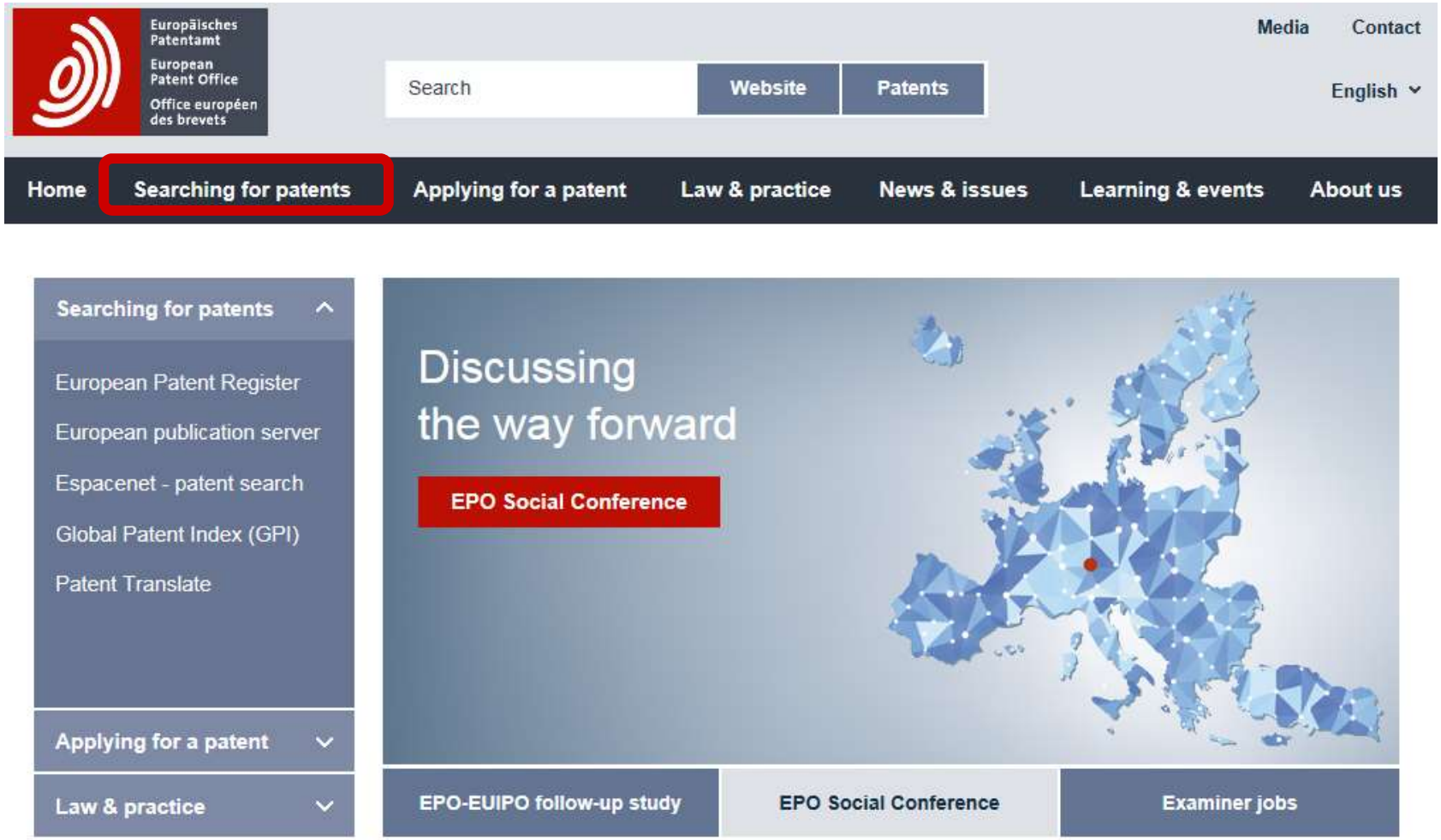

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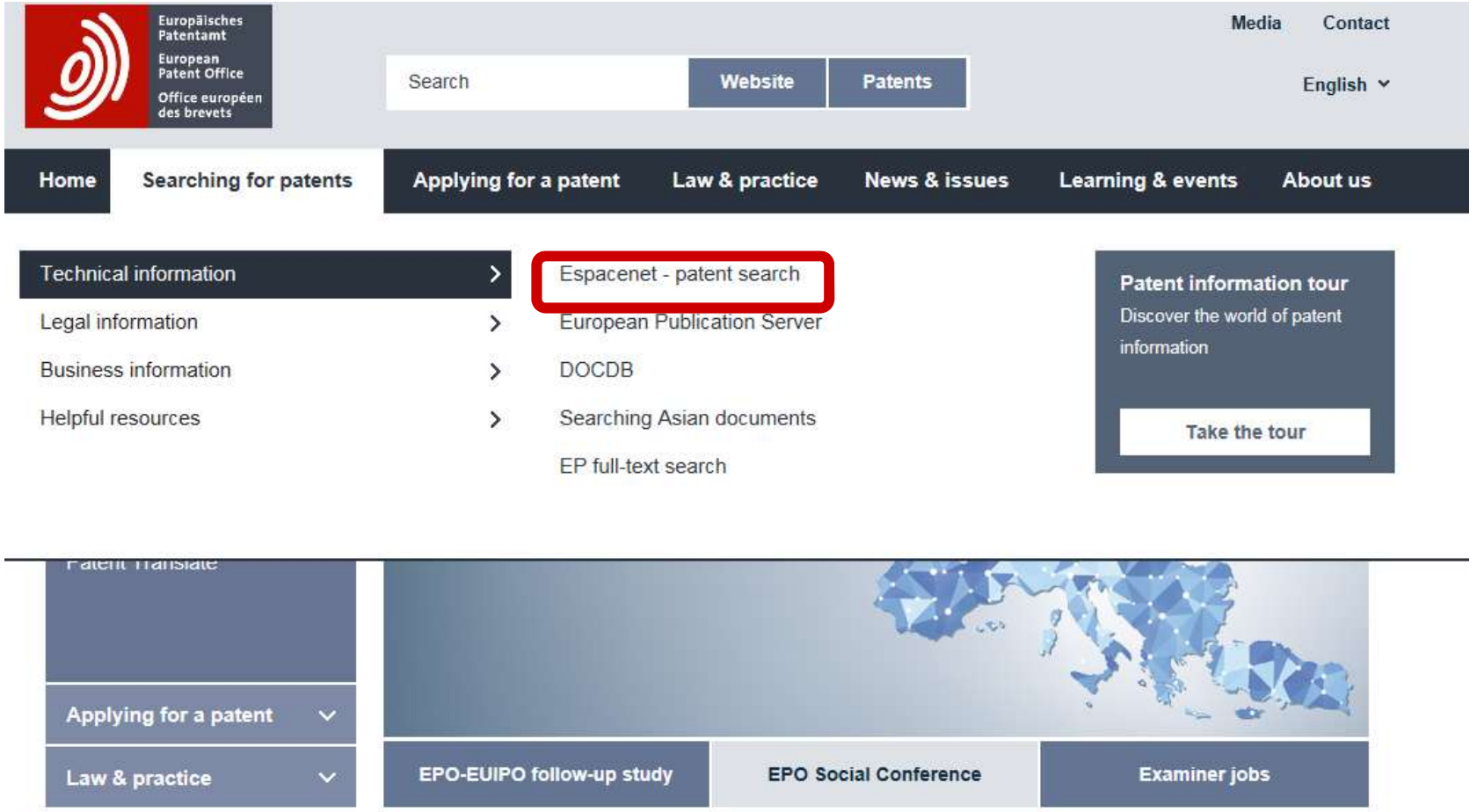

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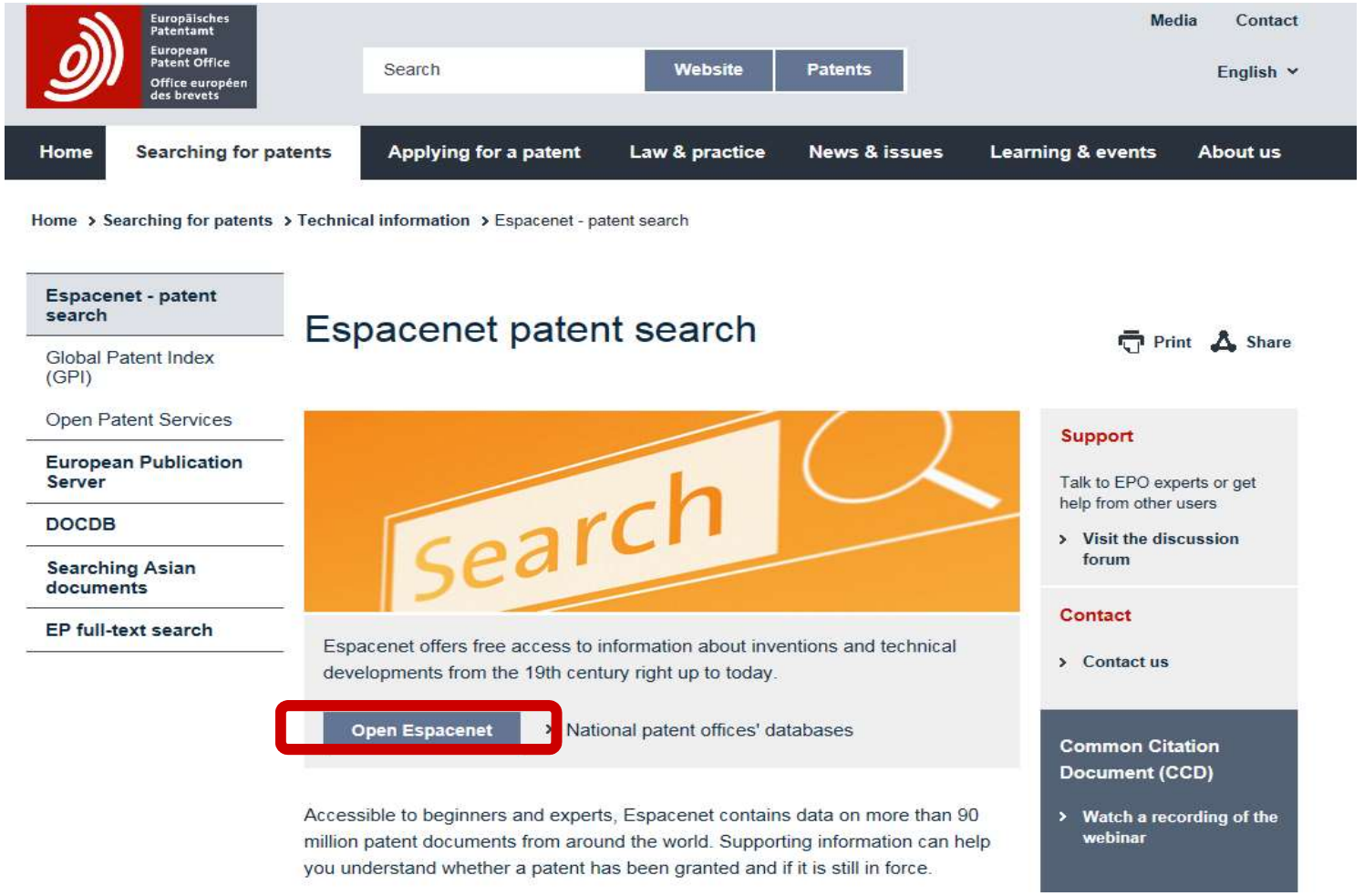
Espacenet Portal



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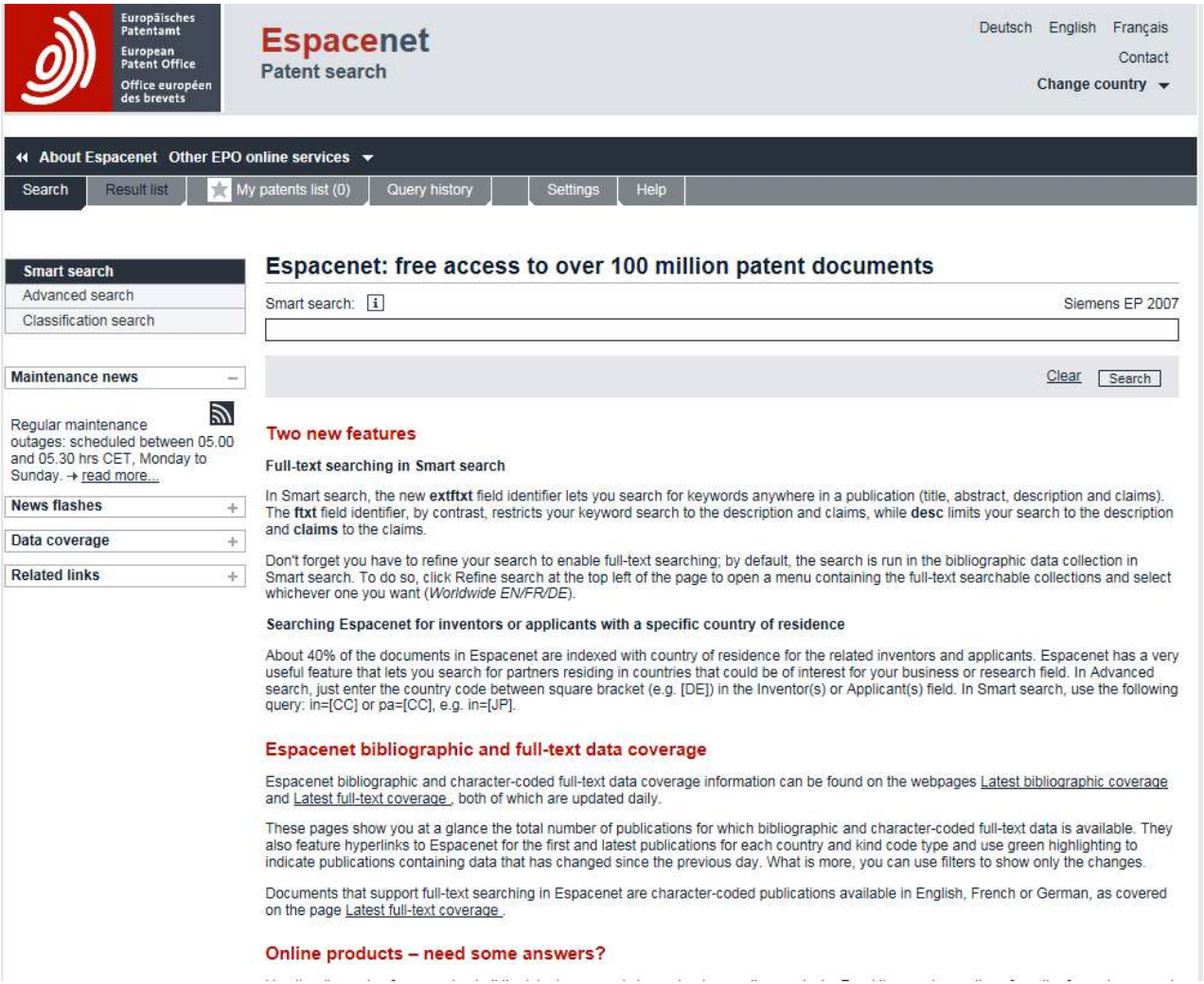
Espacenet search page



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Cooperative Patent Classification: Intro

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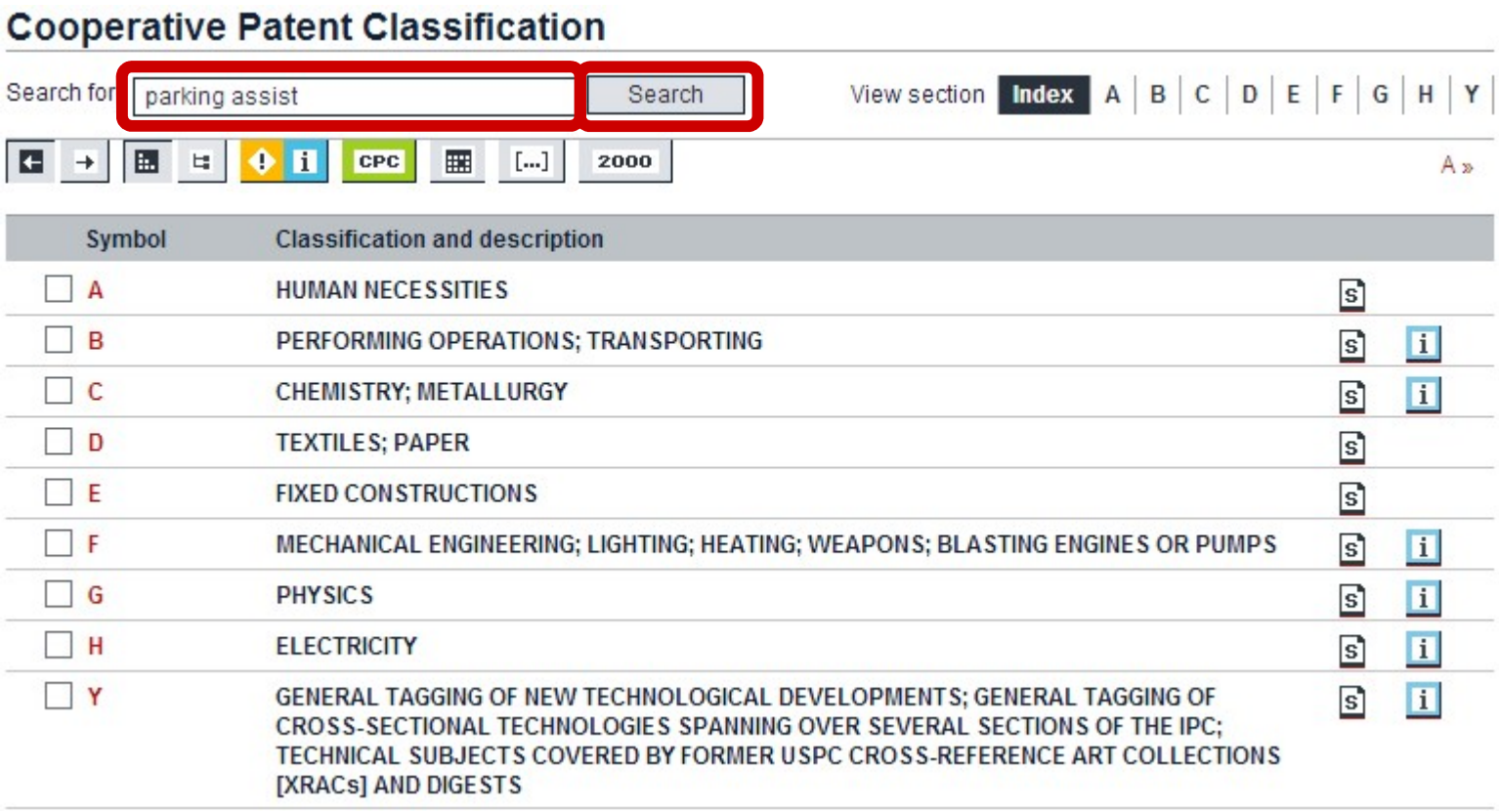
Classification search



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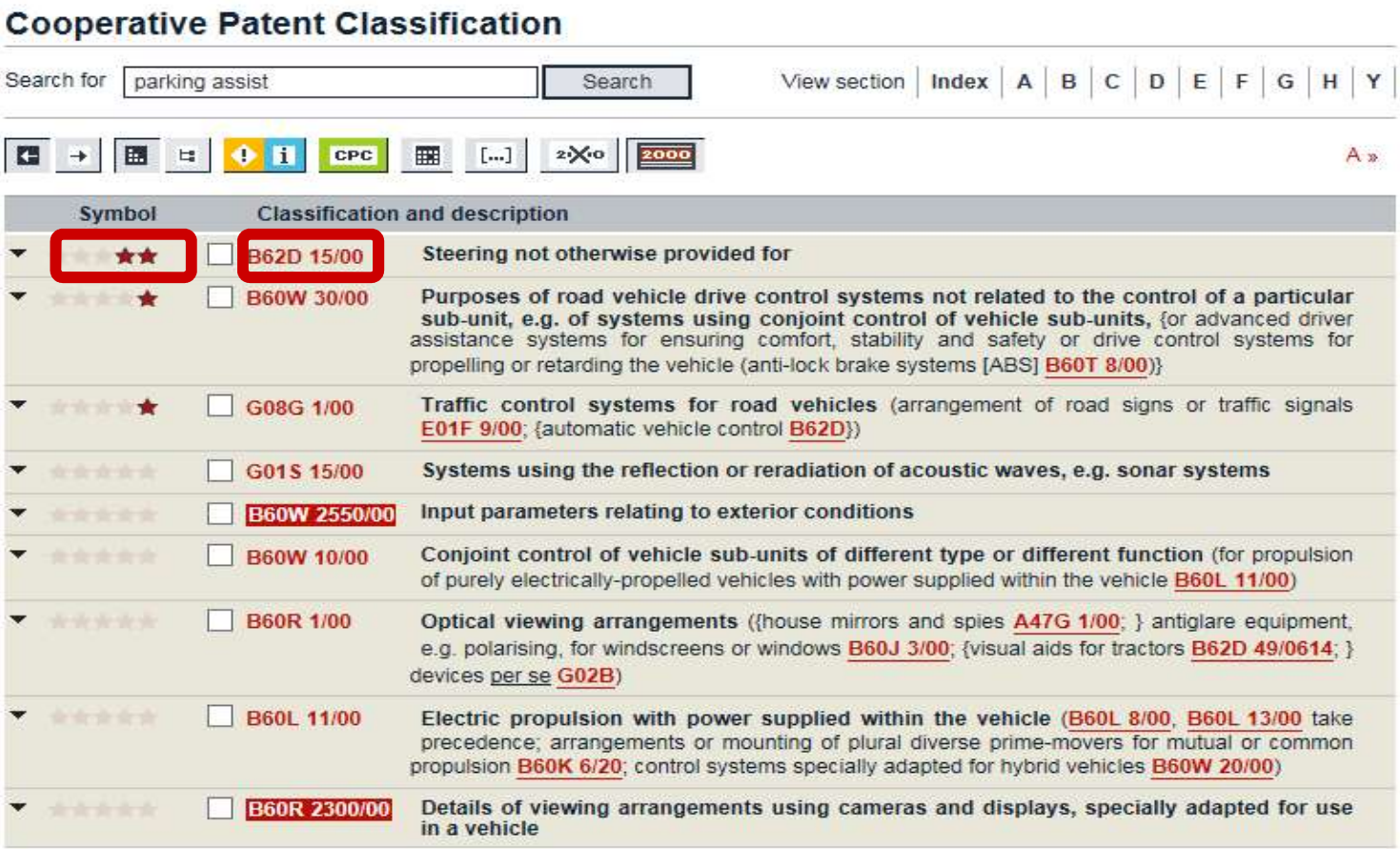
Classification search: Results



Cooperative Patent Classification

Search for: parking assist — Search

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

Symbol	Classification and description
★★	B62D 15/00 — **Steering not otherwise provided for**
★	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)}
★	G08G 1/00 — **Traffic control systems for road vehicles** (arrangement of road signs or traffic signals E01F 9/00; {automatic vehicle control B62D})
	G01S 15/00 — **Systems using the reflection or reradiation of acoustic waves, e.g. sonar systems**
	B60W 2550/00 — **Input parameters relating to exterior conditions**
	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)
	B60R 1/00 — **Optical viewing arrangements** ({house mirrors and spies A47G 1/00; } antiglare equipment, e.g. polarising, for windscreens or windows B60J 3/00; {visual aids for tractors B62D 49/0614; } devices per se G02B)
	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)
	B60R 2300/00 — **Details of viewing arrangements using cameras and displays, specially adapted for use in a vehicle**

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Classification search: Results

Symbol	Classification and description	
★★	B62D 15/00	Steering not otherwise provided for
	B62D 15/02	• Steering position indicators; {Steering position determination; Steering aids}
	B62D 15/0205	• • {Mechanical indicators, e.g. in or near steering wheel}
	B62D 15/021	• • {Determination of steering angle} ({ sensors in general G01B })
	B62D 15/0215	• • • {by measuring on the steering column}
	B62D 15/022	• • • • {on or near the connection between the steering wheel and steering column}
	B62D 15/0225	• • • {by measuring on a steering gear element, e.g. on a rack bar}
	B62D 15/023	• • • {by measuring on the king pin}
	B62D 15/0235	• • • {by measuring or deriving directly at the electric power steering motor}
	B62D 15/024	• • • {Other means for determination of steering angle without directly measuring it, e.g. deriving from wheel speeds on different sides of the car}
	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}
	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}

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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}
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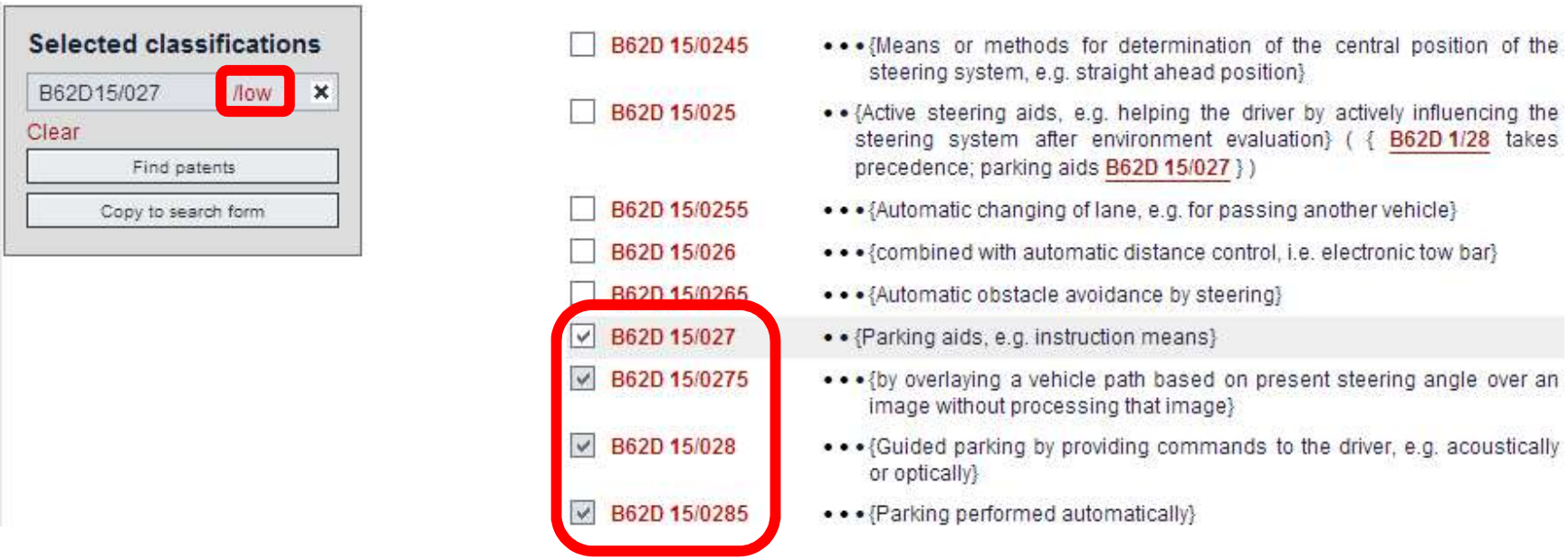

/low: includes all "children" classifications
/exact: includes only the specified classification symbol

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Classification search: Results

☐	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}

Search: Results

Result list

Select all (0/25) | Compact | Export (CSV | XLS) | Download covers | Print

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

2. DISPLAY SYSTEM UTILIZING VEHICLE AND TRAILER DYNAMICS

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

3. CLEARANCE OF AN AUTONOMOUS PARKING SYSTEM

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
NORDBRUCH STEFAN [DE]	BOSCH GMBH ROBERT [DE]	B62D15/0285	G05D1/02	US2018107220 (A1) 2018-04-19	2015-04-30

4. WIRELESS POWER SUPPLY DEVICE AND PARKING SUPPORT DEVICE

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

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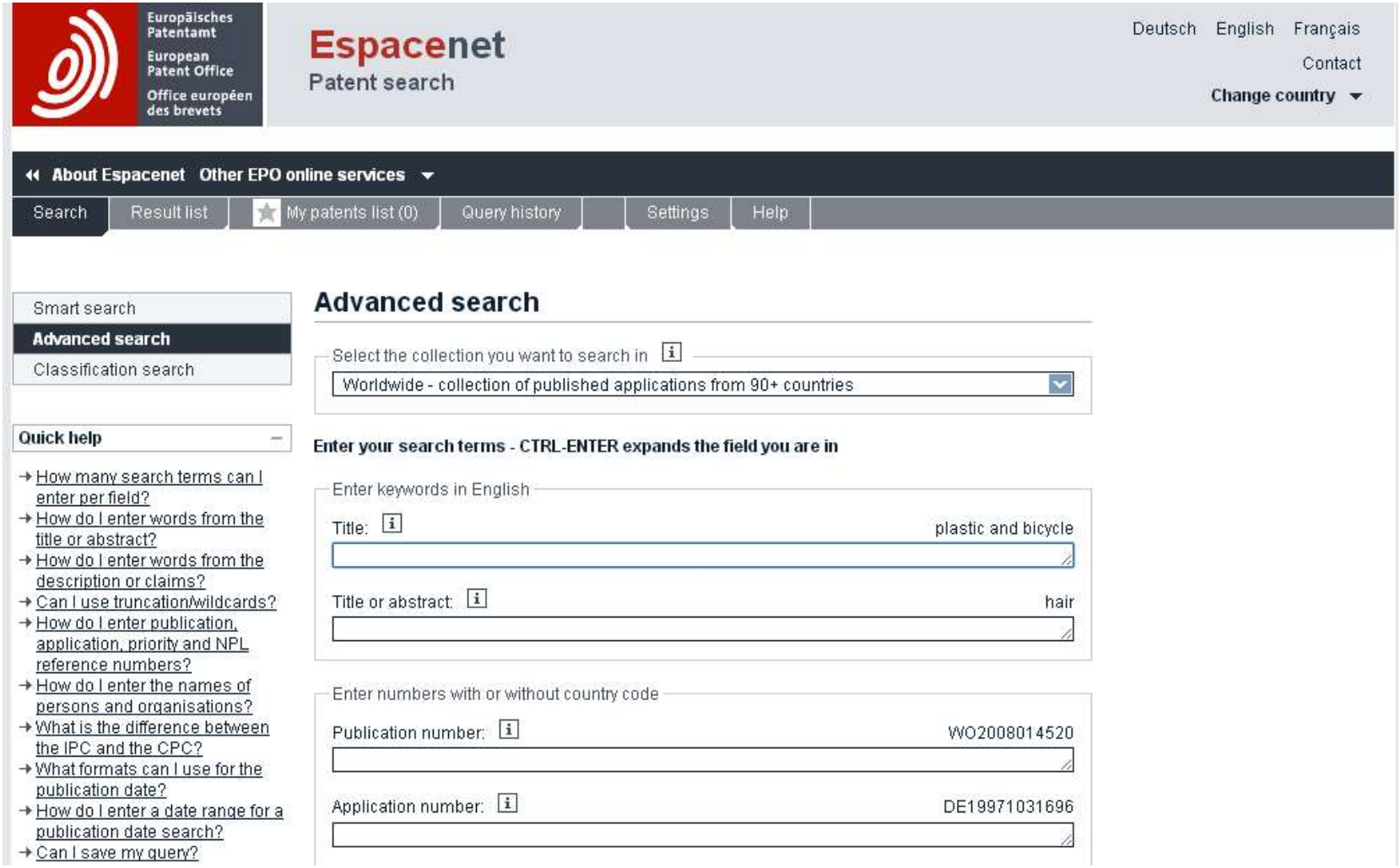
Developing Scenario

- 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

☐	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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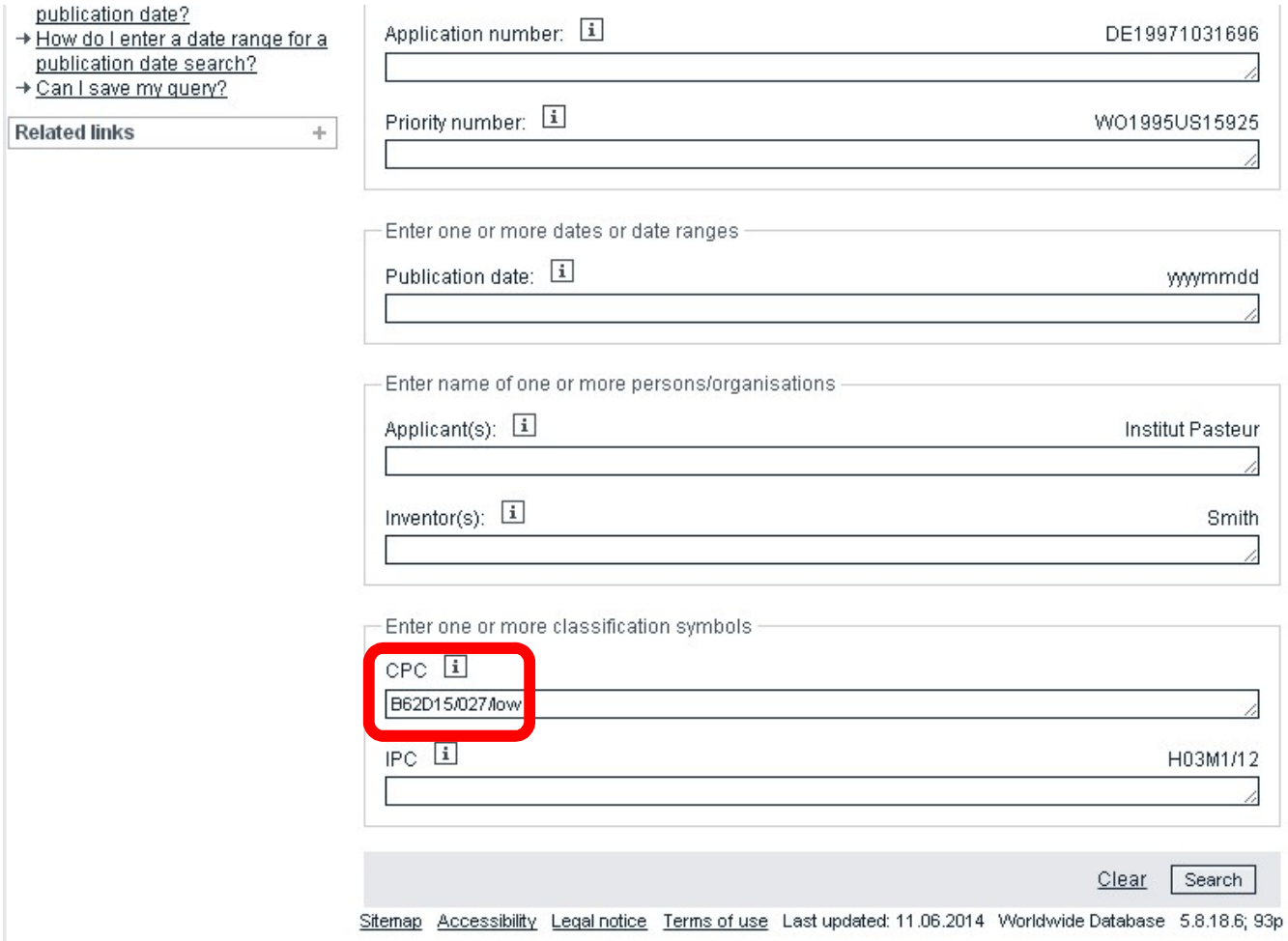
Advanced search interface



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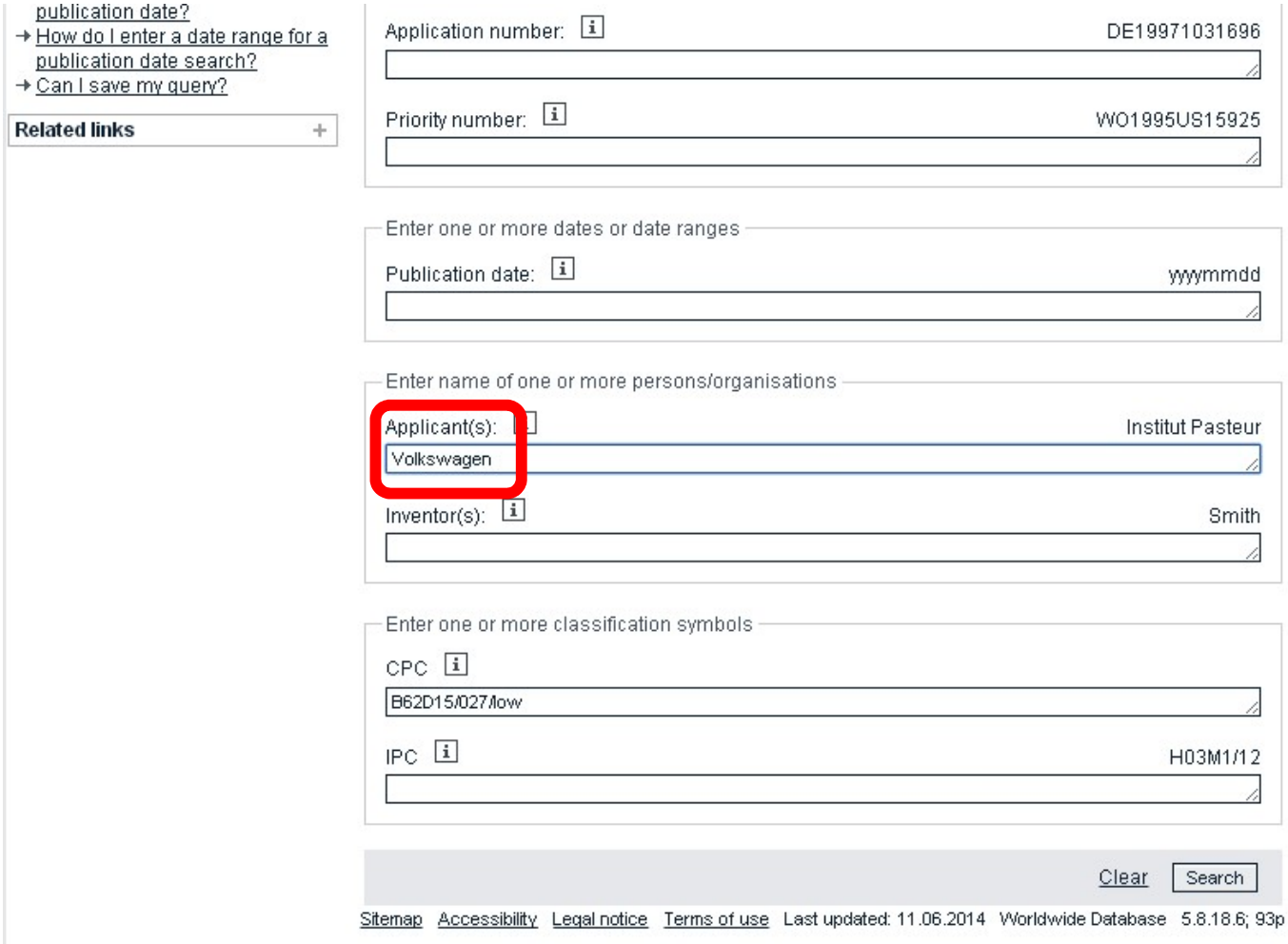
Advanced search interface



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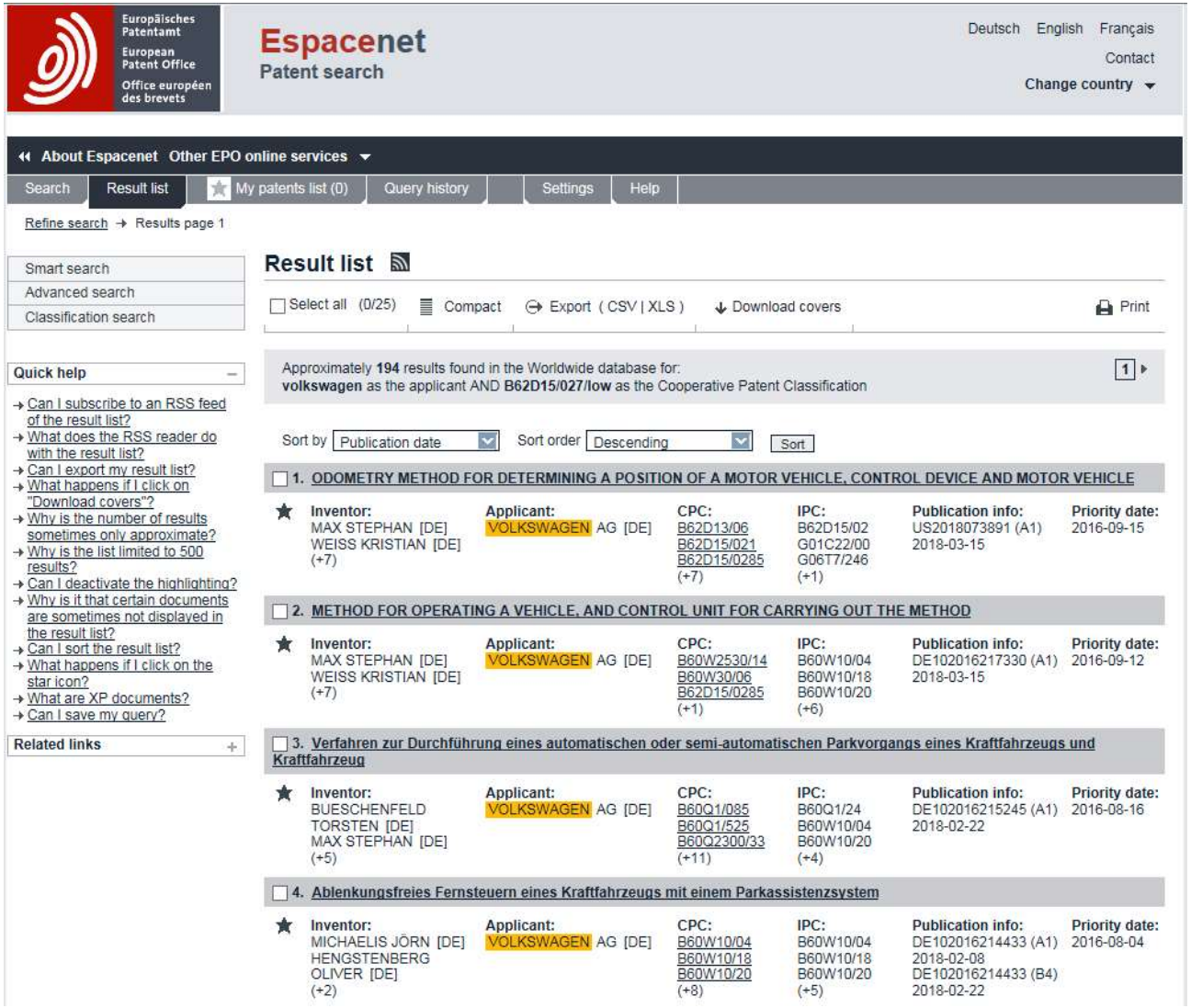
Results



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Search: Results

	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
☐ 44. Method and device for recognising when a kerbstone has been driven over						
★	HUEGER PHILIPP [DE] BRANDT FABIAN [DE]	VOLKSWAGEN AG [DE]	B60W2520/10 B60W2520/28 B60W2550/147 (+3)	B60W30/06 B60W40/10	DE102012014809 (A1) 2014-01-30	2012-07-26
☐ 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						
★	HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	VOLKSWAGEN AG [DE]	B60D1/305 B60D1/62 B62D13/06 (+1)	B60D1/30 B62D13/06	DE102012006206 (A1) 2013-10-02	2012-03-27
☐ 46. METHOD AND DEVICE FOR ASSISTING PARKING OF A MOTOR VEHICLE						
★	HUEGER PHILIPP [DE] SCHWITTERS FRANK [DE]	VOLKSWAGEN AG [DE]	B62D15/027	B60W10/20 B60W30/06 B62D15/02	KR20130045284 (A) 2013-05-03 KR101468791 (B1) 2014-12-03	2010-06-04
☐ 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						
★	HUEGER PHILIPP [DE] WUTTKE ULRICH [DE] (+2)	VOLKSWAGEN AG [DE]	B62D15/0285	B60W30/06	DE102011122421 (A1) 2013-06-27	2011-12-24
☐ 48. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE						
★	HUEGER PHILIPP [DE] WUTTKE ULRICH [DE]	HUEGER PHILIPP [DE] WUTTKE ULRICH [DE] (+1)	B60W30/06 B62D1/00 B62D15/025 (+4)	B62D15/02	US2013116879 (A1) 2013-05-09 US9168954 (B2) 2015-10-27	2010-05-12
☐ 49. METHOD FOR PARKING A VEHICLE AND CORRESPONDING PARKING ASSISTANCE SYSTEM AND VEHICLE						
★	TERKES MEHMET [DE] WUTTKE ULRICH [DE] (+2)	TERKES MEHMET [DE] WUTTKE ULRICH [DE] (+3)	B60W30/06 B62D15/028 B62D15/0285	B62D15/02	US2013116878 (A1) 2013-05-09 US9272733 (B2) 2016-03-01	2010-05-12
☐ 50. METHOD FOR PULLING A VEHICLE INTO OR OUT OF A PARKING SPACE AND CORRESPONDING ASSISTANCE SYSTEM AND VEHICLE						
★	WUTTKE ULRICH [DE] HUEGER PHILIPP [DE] (+1)	WUTTKE ULRICH [DE] HUEGER PHILIPP [DE] (+10)	B60W10/20 B60W2050/143 B60W2050/146	B62D15/02	US2013110342 (A1) 2013-05-02 US9505435 (B2) 2016-11-29	2010-05-12

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Question

- Where was this patent application filed?

Record

Bibliographic data: US 2013116879 (A1) — 2013-05-09

In my patents list | Previous | 48 / 161 | Next | Report data error | Print

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) → more

Abstract of US2013116879 (A1)

Translate this text into

Select language

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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.

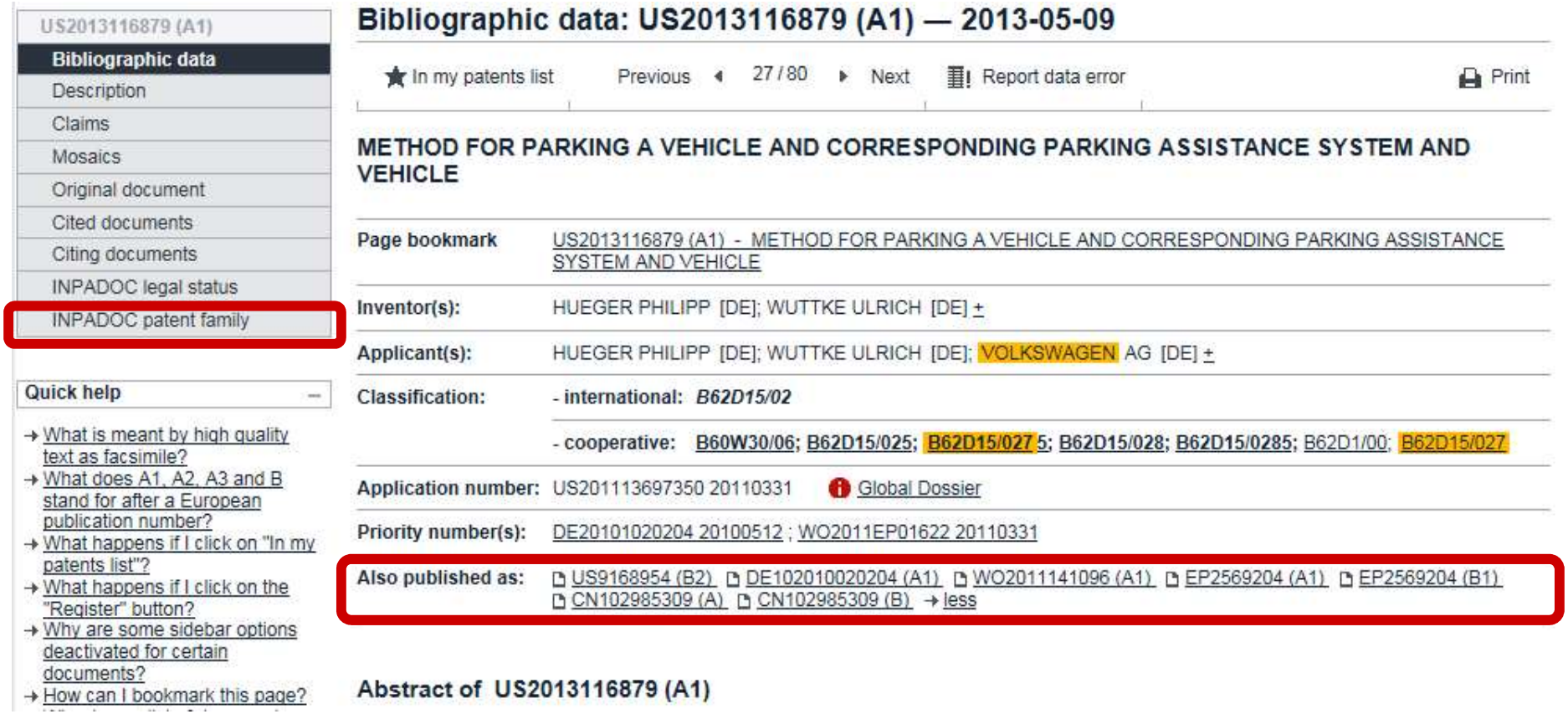
→ Patents are territorial in nature.

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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Record: INPADOC patent family

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

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5 application(s) for: **US2013116879 (A1)**

Sort by: Priority date | Sort order: Descending | Sort | show citations

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

Patent applications filed in Germany…

…and through the European Patent Office

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Task breakdown

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Record: INPADOC patent family

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

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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

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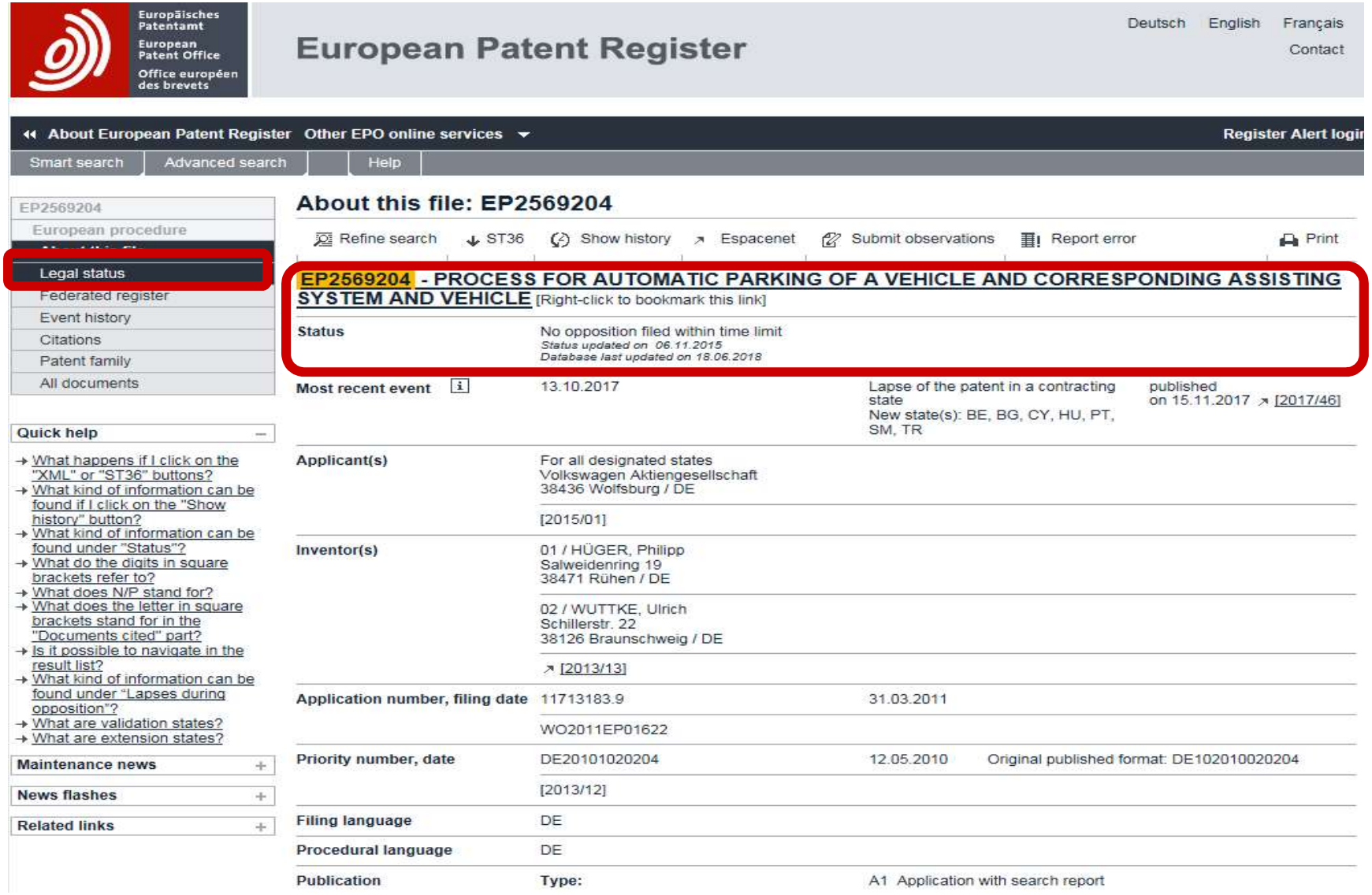
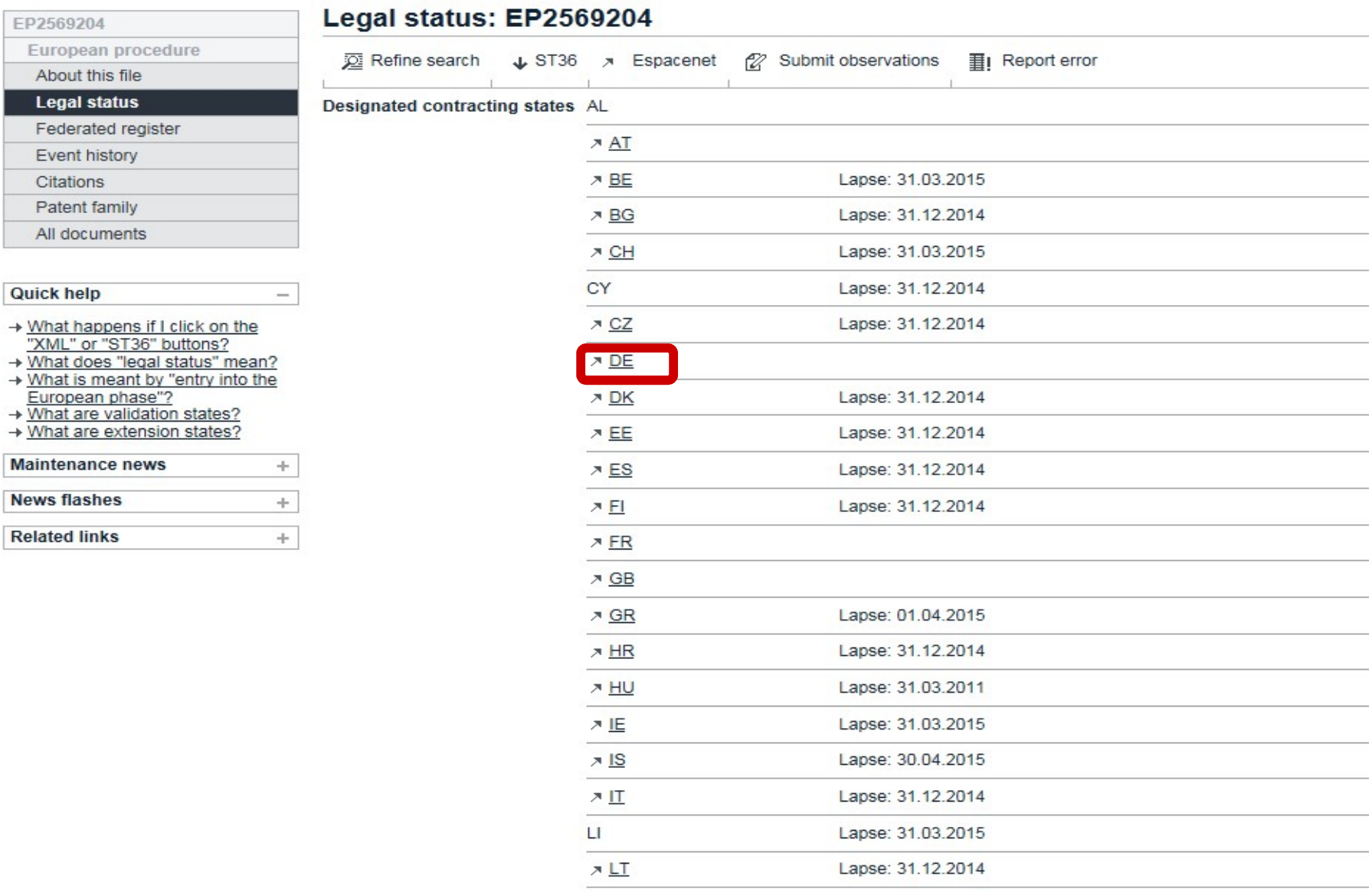
Record: European Patent Register



European Patent Register: Legal status



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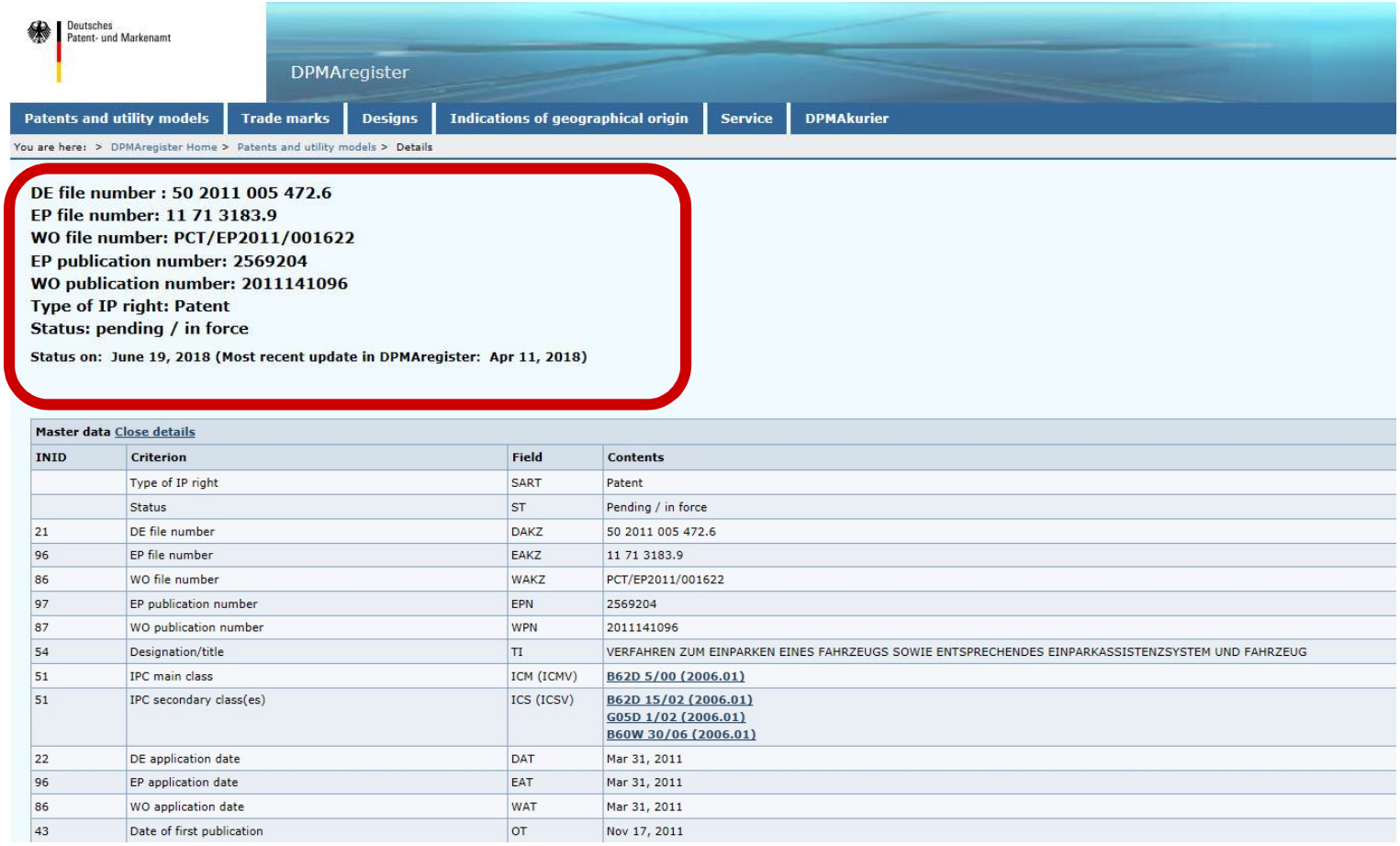

Deutsches Patent- und Markenamt

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)

Master data Close details

INID	Criterion	Field	Contents
	Type of IP right	SART	Patent
	Status	ST	Pending / in force
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

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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 Rühen, DE WUTTKE, Ulrich, 38126 Braunschweig, DE
	Address for service		VOLKSWAGEN Aktiengesellschaft, 38436 Wolfsburg, DE
66 66	Domestic priority	PRN PRD	102010020204 May 12, 2010
	Due date	FT FG	Mar 31, 2019 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	▪ Original document: EP000002569204; Searchable text: EP000002569204 ▪ Original document: EP000002569204B1; Searchable text: EP000002569204B1 ▪ Original document: WO002011141096; Searchable text: WO002011141096
	Day of the first transfer into DPMAregister	EREGT	May 2, 2013
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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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Task breakdown

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- **Review procedural documentation**

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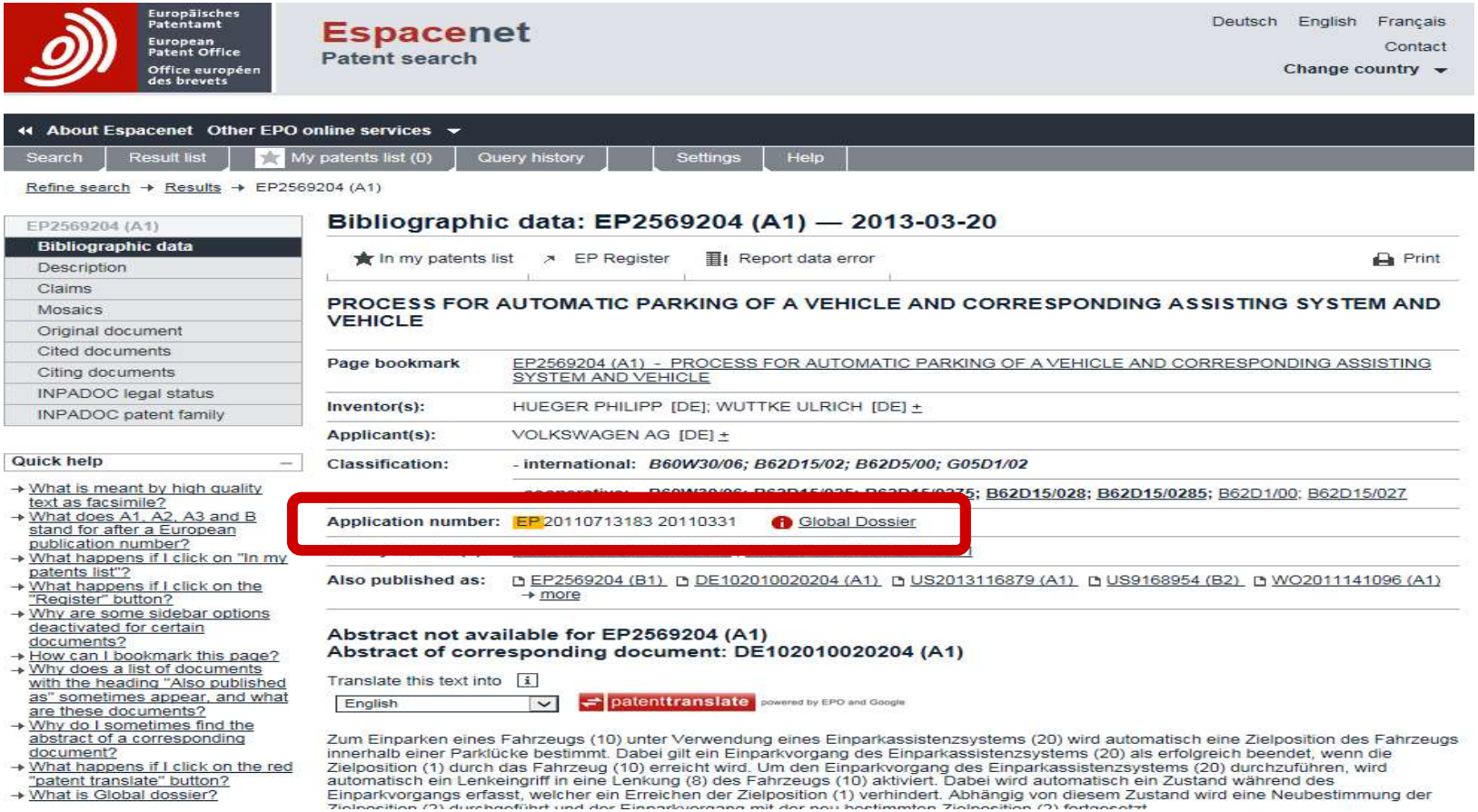

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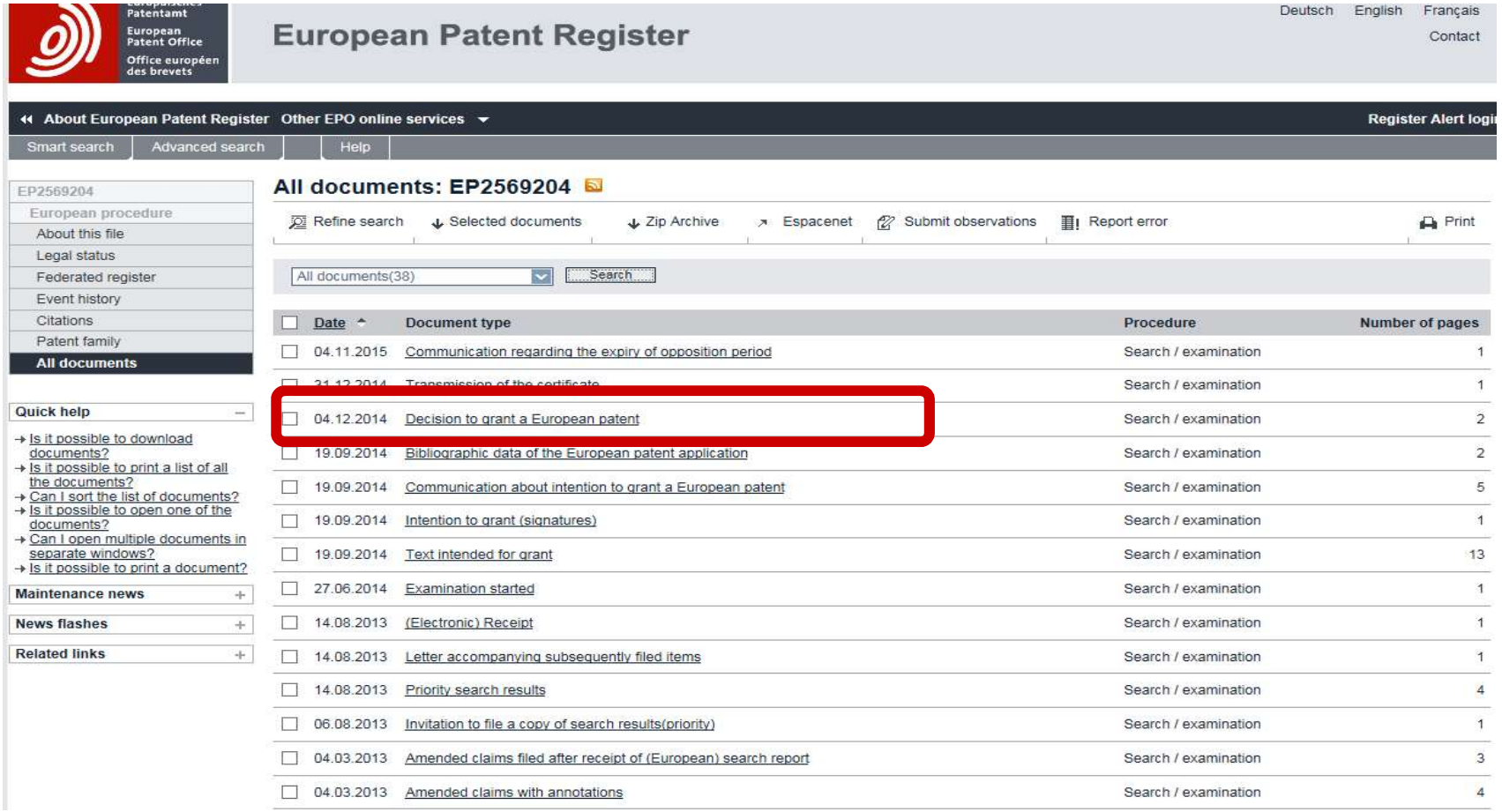

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Volkswagen Aktiengesellschaft
38436 Wolfsburg
ALLEMAGNE

Datum
04.12.14

Zeichen	Anmeldung Nr./Patent Nr.
K17267 WO/EP	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

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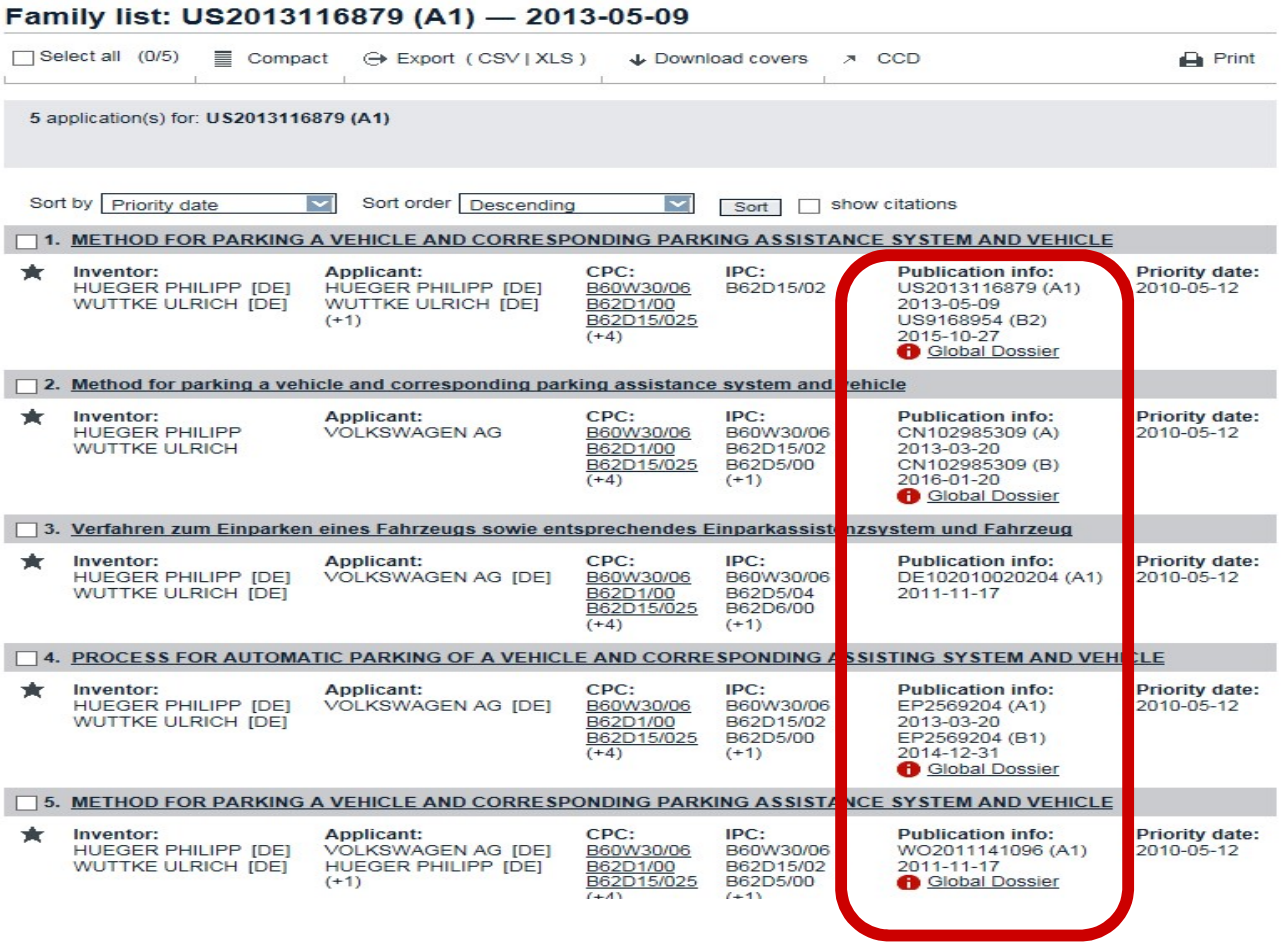

Family list: US2013116879 (A1) — 2013-05-09

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5 application(s) for: **US2013116879 (A1)**

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

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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.
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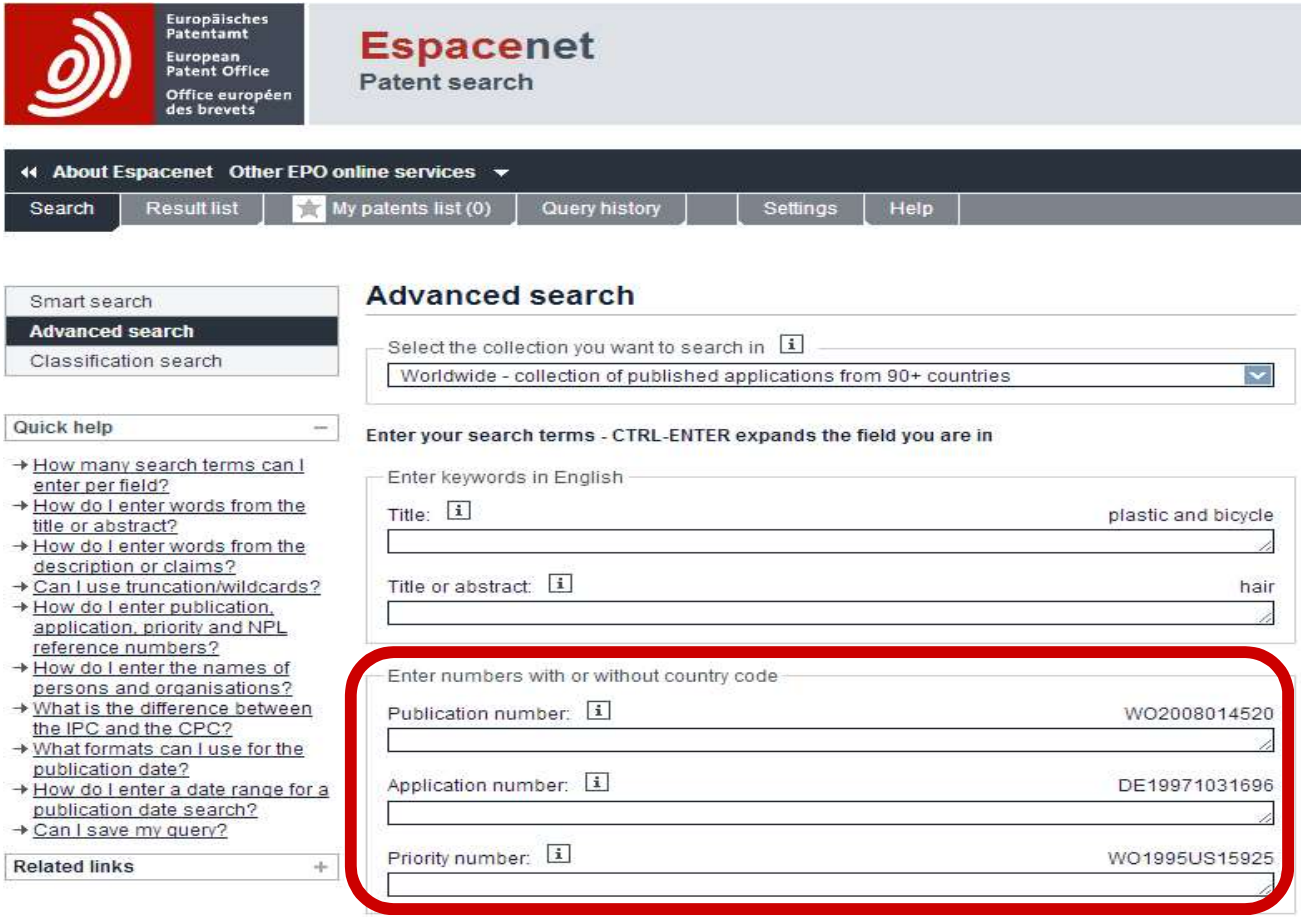

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Question

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

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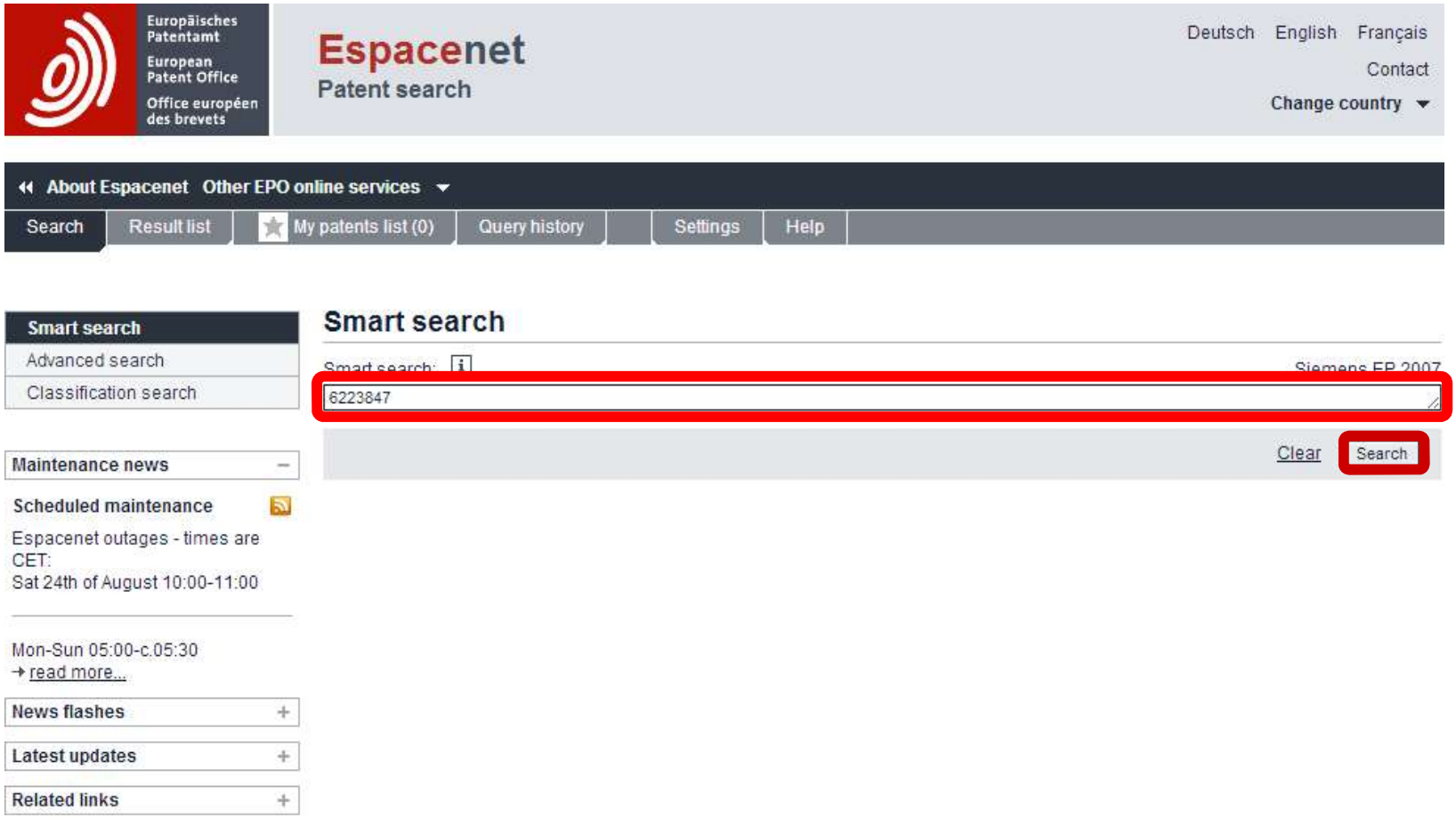

6,223,847 → 6223847 (or US6223847)

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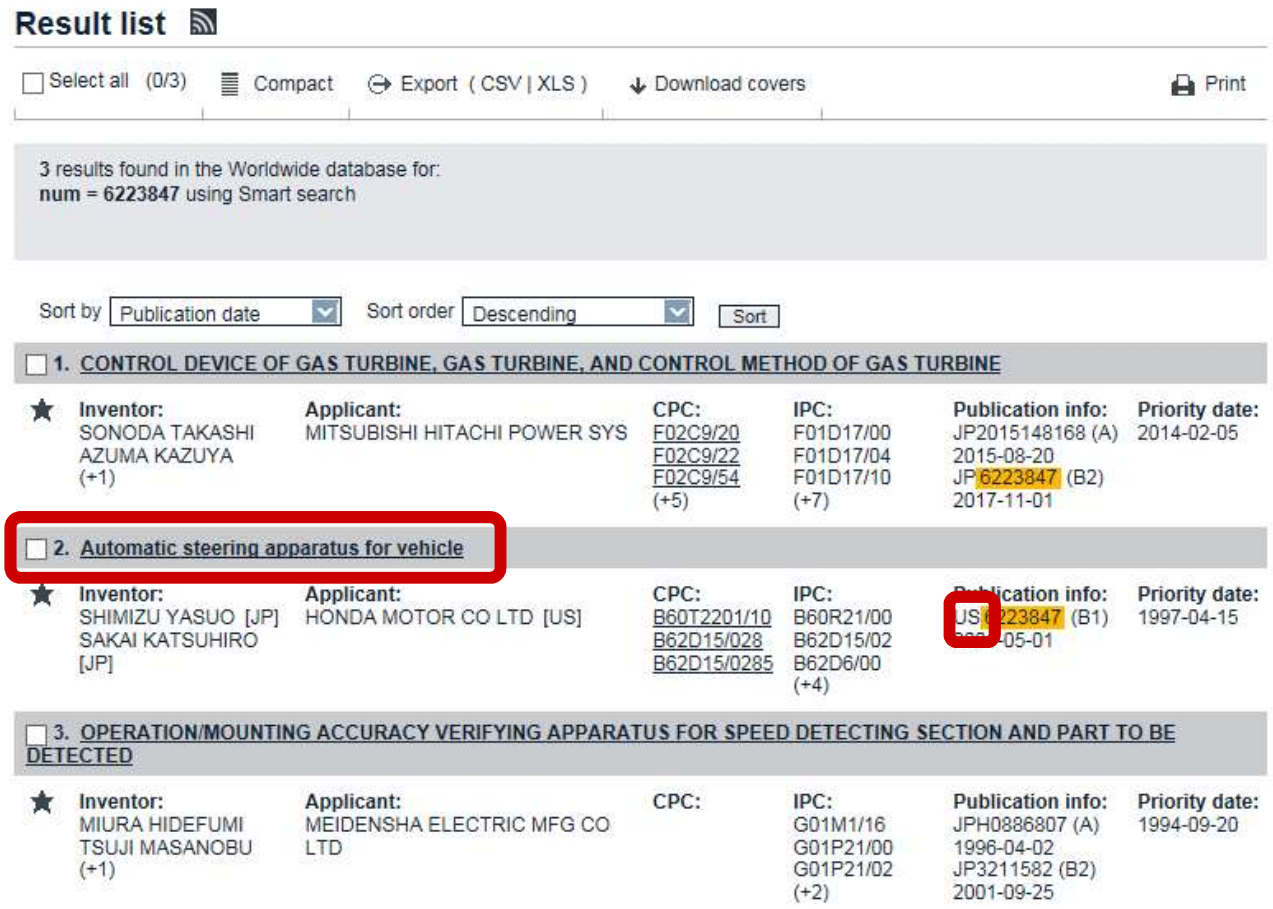

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3 results found in the Worldwide database for:
num = 6223847 using Smart search

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

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

2. Automatic steering apparatus for vehicle

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
SHIMIZU YASUO [JP] SAKAI KATSUHIRO [JP]	HONDA MOTOR CO LTD [US]	B60T2201/10 B62D15/028 B62D15/0285	B60R21/00 B62D15/02 B62D6/00 (+4)	US 6223847 (B1) 2001-05-01	1997-04-15

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

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

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Record

US6223847 (B1)

- Bibliographic data
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Bibliographic data: US6223847 (B1) — 2001-05-01

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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)

Abstract of US6223847 (B1)

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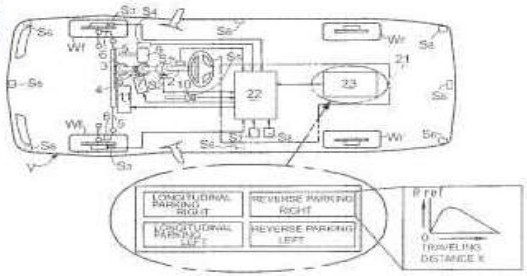
If a driver starts an automatic parking control operation with a vehicle V stopped at a starting position, the vehicle V is guided from the starting position via a reversing position to a target position. Left and right markers are provided on the vehicle V. The vehicle V can be stopped at the starting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



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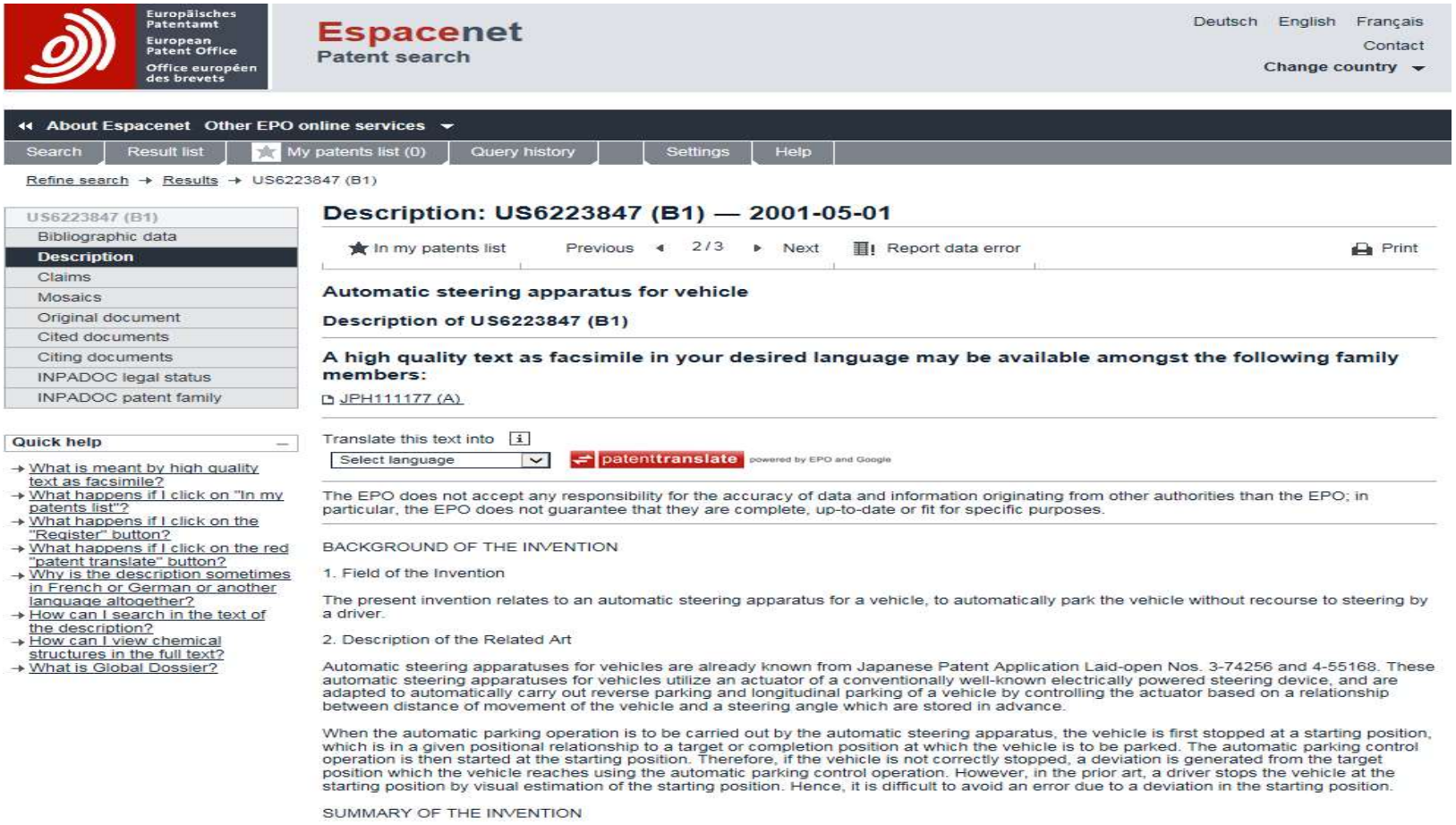

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Claims

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Claims: US6223847 (B1) — 2001-05-01

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Automatic steering apparatus for vehicle

Claims of US6223847 (B1)

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JPH111177 (A)

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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.

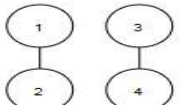
What is claimed is:

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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Automatic steering apparatus for vehicle

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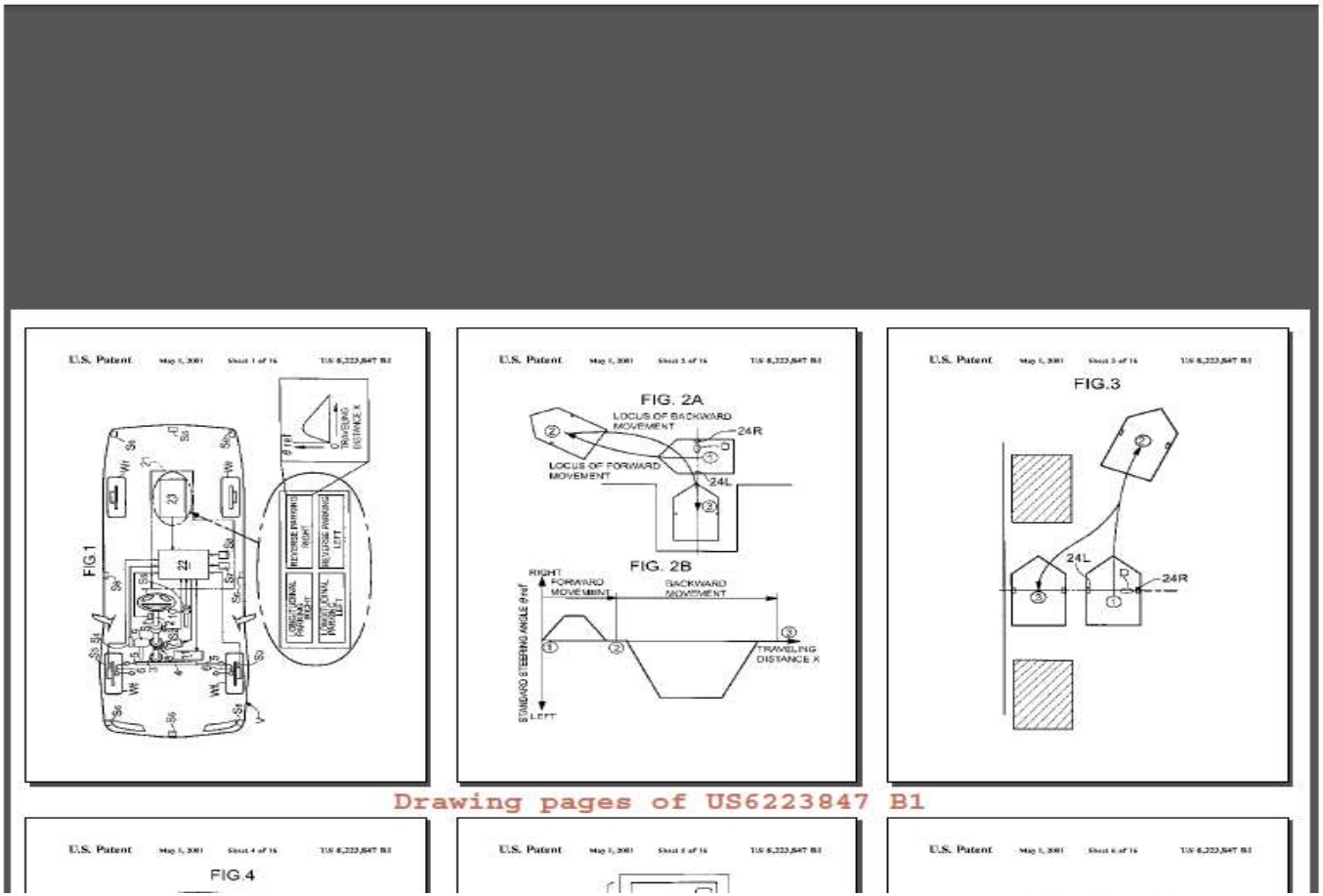

Drawing pages of US6223847 B1

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Automatic steering apparatus for vehicle

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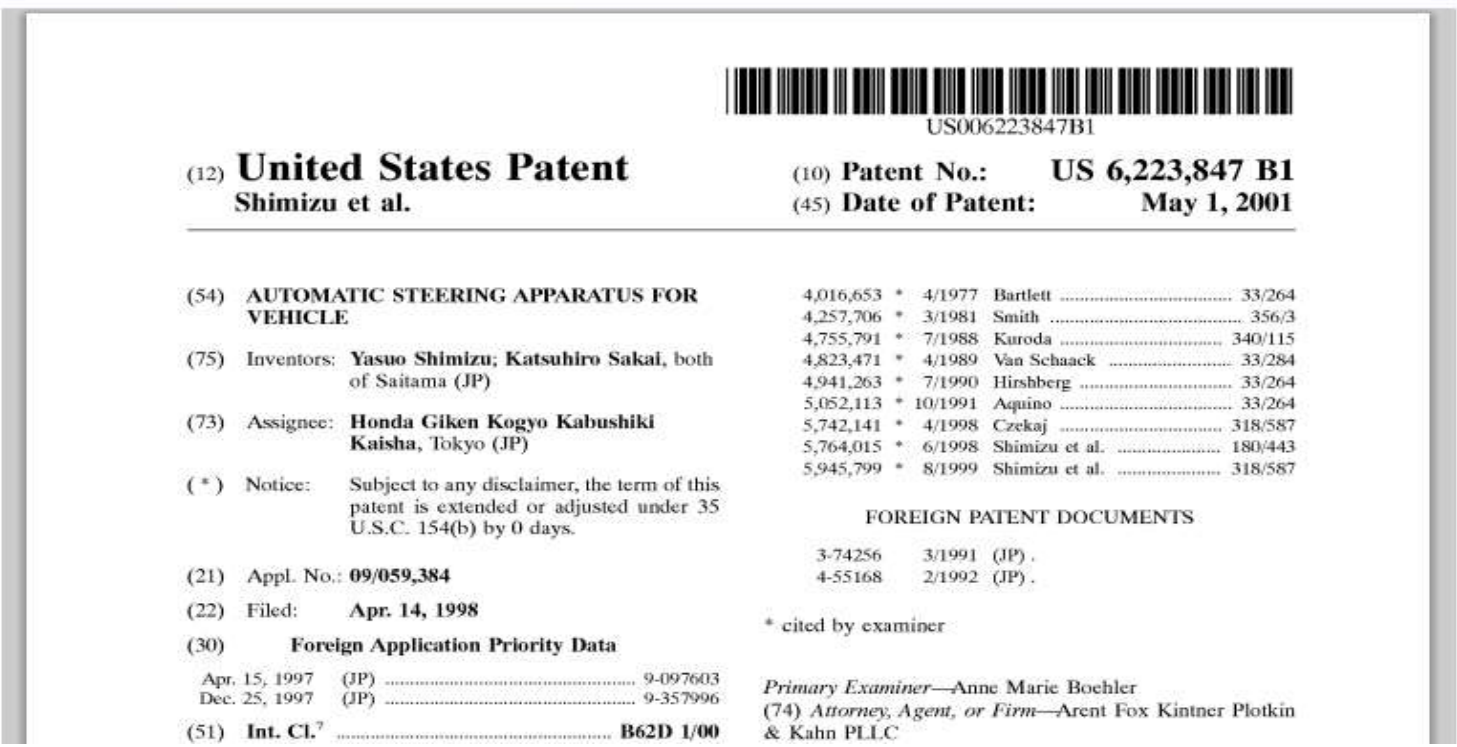

US006223847B1

(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**; **Katsuhiro 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

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3-74256	3/1991	(JP) .
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Primary Examiner—Anne Marie Boehler
(74) *Attorney, Agent, or Firm*—Arent Fox Kintner Plotkin & Kahn PLLC

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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**; **Katsuhiro 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.

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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

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5,052,113 * 10/1991 Aquino 33/264
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5,764,015 * 6/1998 Shimizu et al. 180/443
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3-74256 3/1991 (JP) .
4-55168 2/1992 (JP) .

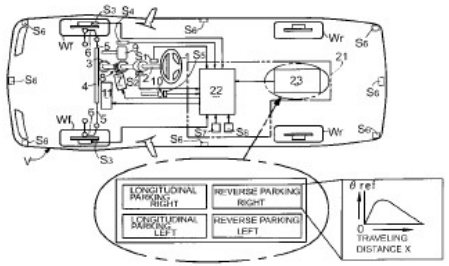
* cited by examiner

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

(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.

4 Claims, 16 Drawing Sheets



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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)

Abstract of US6223847 (B1)

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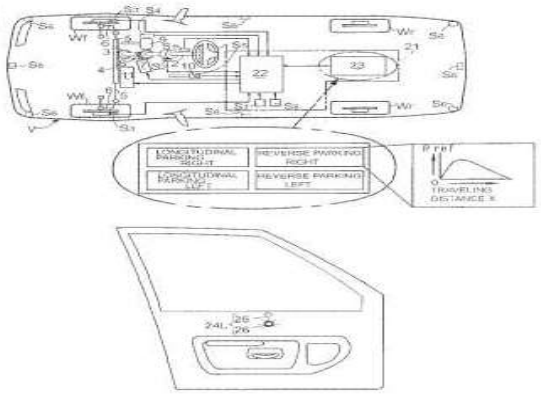
V is guided from the starting position via a reversing
eft and right markers are provided on the vehicle V.
at the starting position by aligning any of the
f a parking position.



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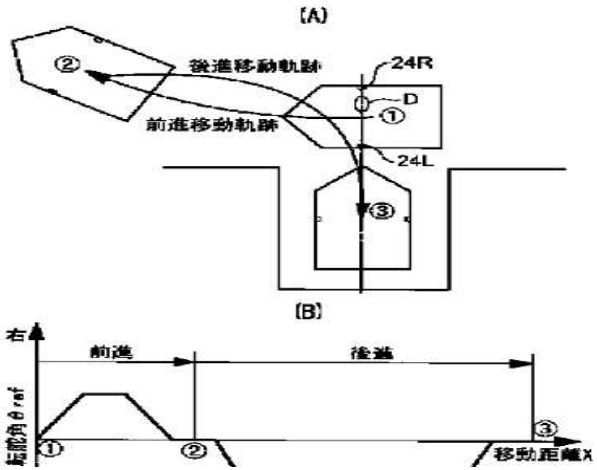
РЕФЕРАТ US6223847

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



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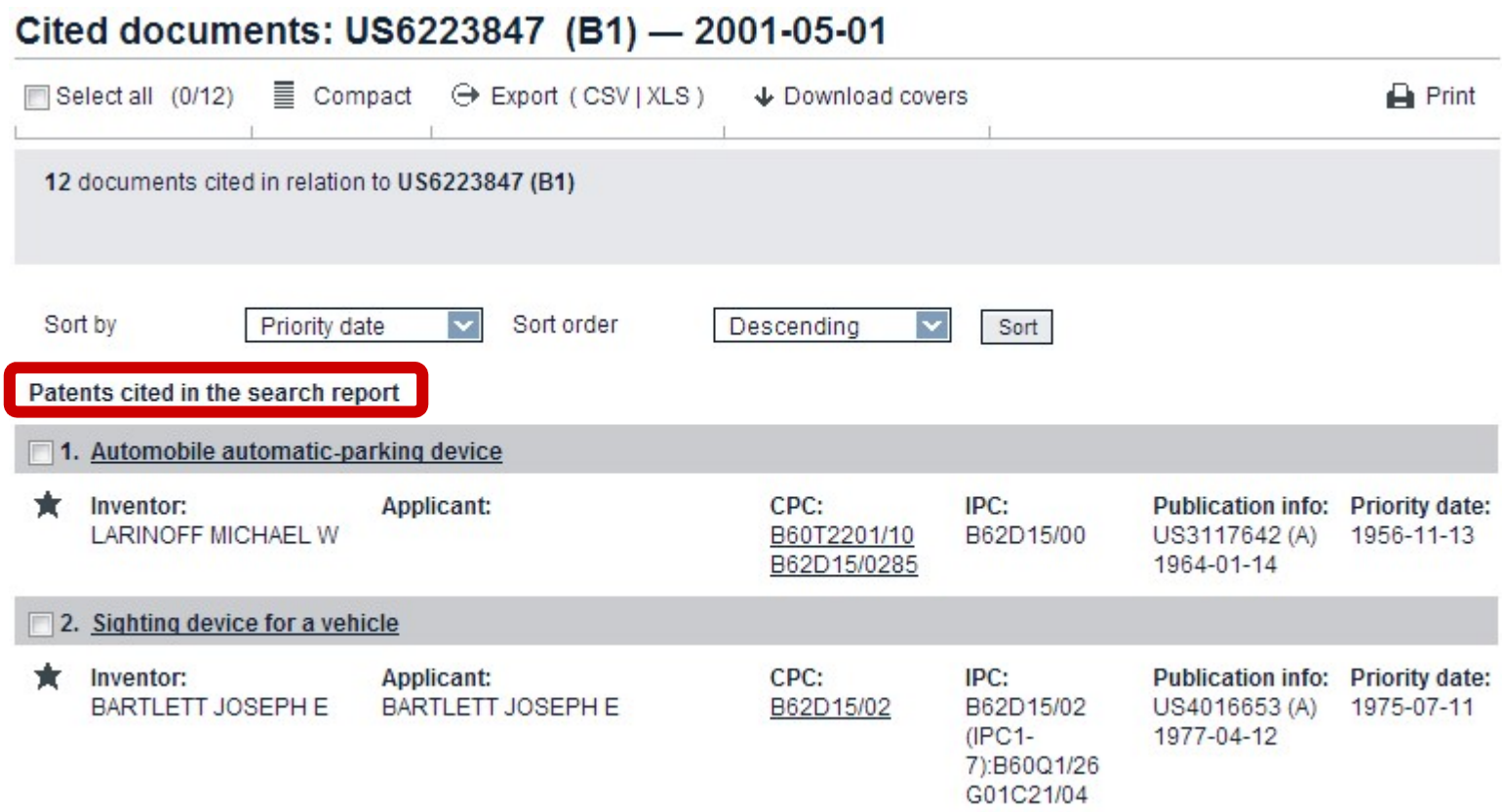

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12 documents cited in relation to **US6223847 (B1)**

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Patents cited in the search report

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
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:** B60T2201/10 B62D15/0285	**IPC:** B60R21/00 B62D15/02 B62D5/04 (+3)	**Publication info:** US5945799 (A) 1999-08-31	**Priority date:** 1996-10-09

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:** B62D1/286	**IPC:** B62D1/28 B62D5/04 B62D6/00 (+6)	**Publication info:** JPH0374256 (A) 1991-03-28	**Priority date:** 1989-06-08
12. STEERING DEVICE AND AUTOMATIC STEERING SYSTEM						
★	**Inventor:** MASAKI RYOZO MORINAGA SHIGEKI (+2)	**Applicant:** HITACHI LTD	**CPC:** B62D1/286 B62D15/0285	**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. 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
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
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
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
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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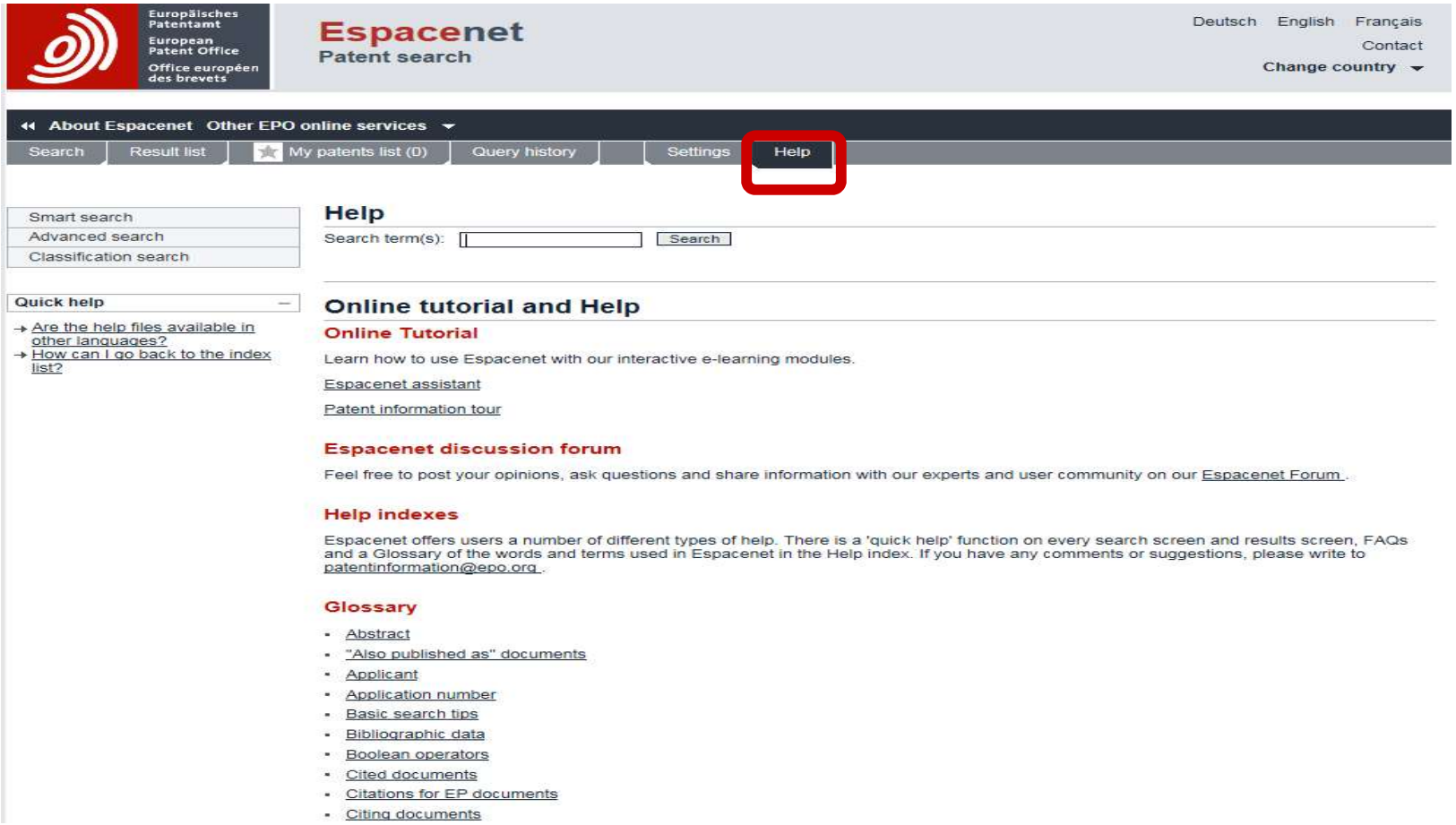

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Field identifier	Description	Examples
in	inventor	in=smith
pa	applicant	pa=siemens
ti	title	ti="mouse trap"
ab	abstract	ab="mouse trap"
pr	priority number	pr=ep20050104792
pn	publication number	pn=ep1000000
ap	application number	ap=jp19890234567
pd	publication date	pd=20080107 OR pd="07/01/2008" OR pd=07/01/2008
ct	citation/ cited document	ct=ep1000000
cpc	Cooperative Patent Classification	cpc="A61K31/13"
cpcc	classification combination	cpcc="C08F8/30", cpcc="C08F297/02"
desc	description	desc=lens
claims	claims	claims=laser
ftxt	full text	ftxt=microscope
extftxt	full text, title and abstract	extftxt=nanoparticle
ia	inventor and applicant	ia=Apple OR ia="Ries Klaus"
ta	title and abstract	ta="laser printer"
txt	title, abstract, inventor and applicant	txt=microscope lens

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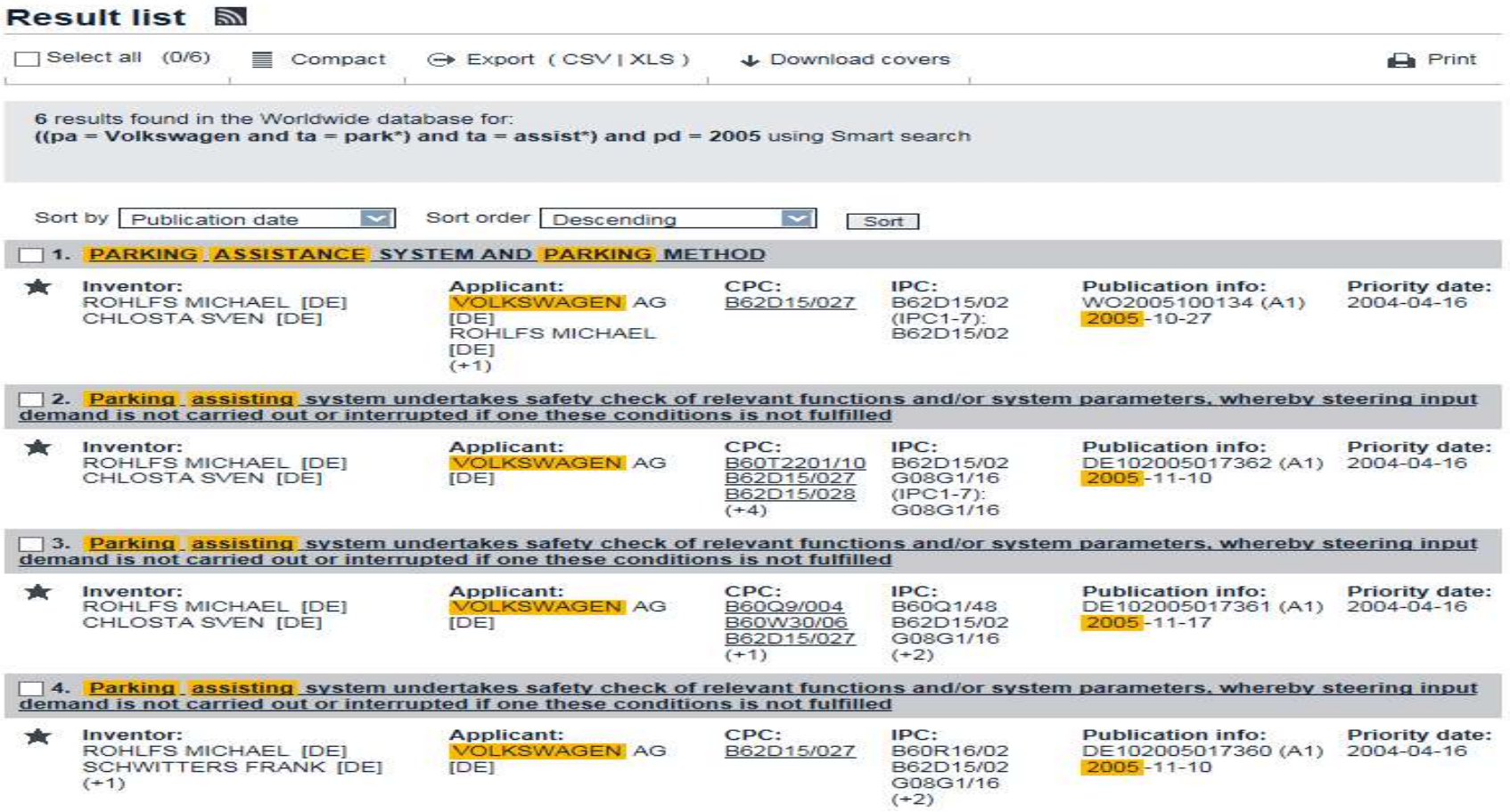

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((pa = Volkswagen and ta = park*) and ta = assist*) and pd = 2005 using Smart search

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1. PARKING ASSISTANCE SYSTEM AND PARKING METHOD

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ROHLFS MICHAEL [DE] CHLOSTA SVEN [DE]	VOLKSWAGEN AG [DE] ROHLFS MICHAEL [DE] (+1)	B62D15/027	B62D15/02 (IPC1-7): B62D15/02	WO2005100134 (A1) 2005-10-27	2004-04-16

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:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ROHLFS MICHAEL [DE] CHLOSTA SVEN [DE]	VOLKSWAGEN AG [DE]	B60T2201/10 B62D15/027 B62D15/028 (+4)	B62D15/02 G08G1/16 (IPC1-7): G08G1/16	DE102005017362 (A1) 2005-11-10	2004-04-16

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:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ROHLFS MICHAEL [DE] CHLOSTA SVEN [DE]	VOLKSWAGEN AG [DE]	B60Q9/004 B60W30/06 B62D15/027 (+1)	B60Q1/48 B62D15/02 G08G1/16 (+2)	DE102005017361 (A1) 2005-11-17	2004-04-16

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

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- Boolean operators : AND, OR, NOT
- Comparison operators
- Range operator
- Wildcard operators

  ? (zero or one characters)

  # (one character exactly)

  * (any number of characters)

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  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* → electr**ic**, electr**on**, electr**onic** …

- Zero or one characters (stackable) : ?

  forge? → forge, forge**s**, forge**t** …

  car?? → car, car**s**, car**t**, car**ts** … (not car**pet**)

- One character exactly : #

  ri# → ri**d**, ri**p**, ri**m** …

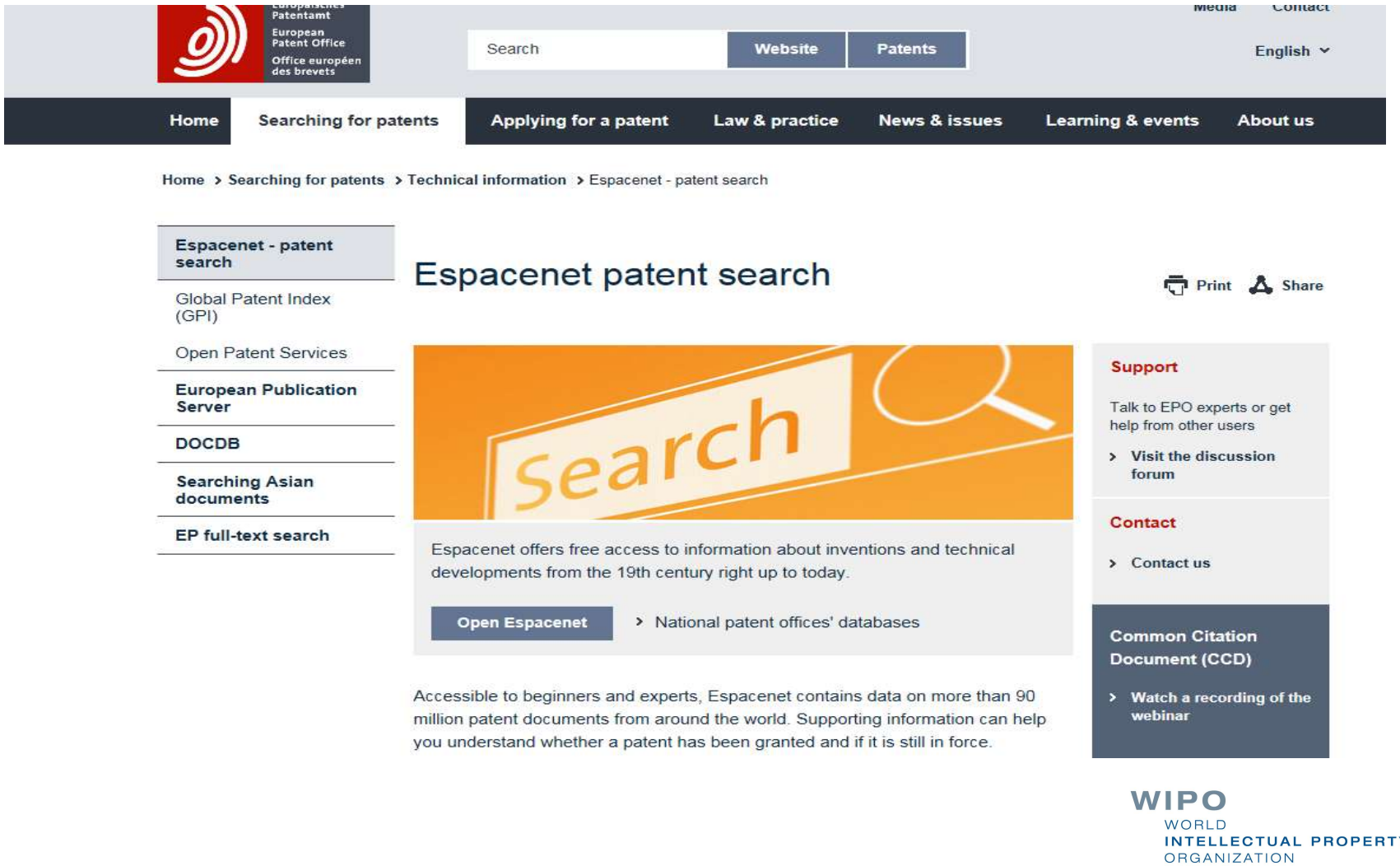
  foc## → foc**us**, foc**al** …

- Can only be used at the end of a term

Collections and coverage

- Currently, over 100 million patent documents
  - International patent applications (PCT)
  - Over 100 national collections
  - Five regional collections (ARIPO, EAPO, EPO, GCC, OAPI)

Coverage



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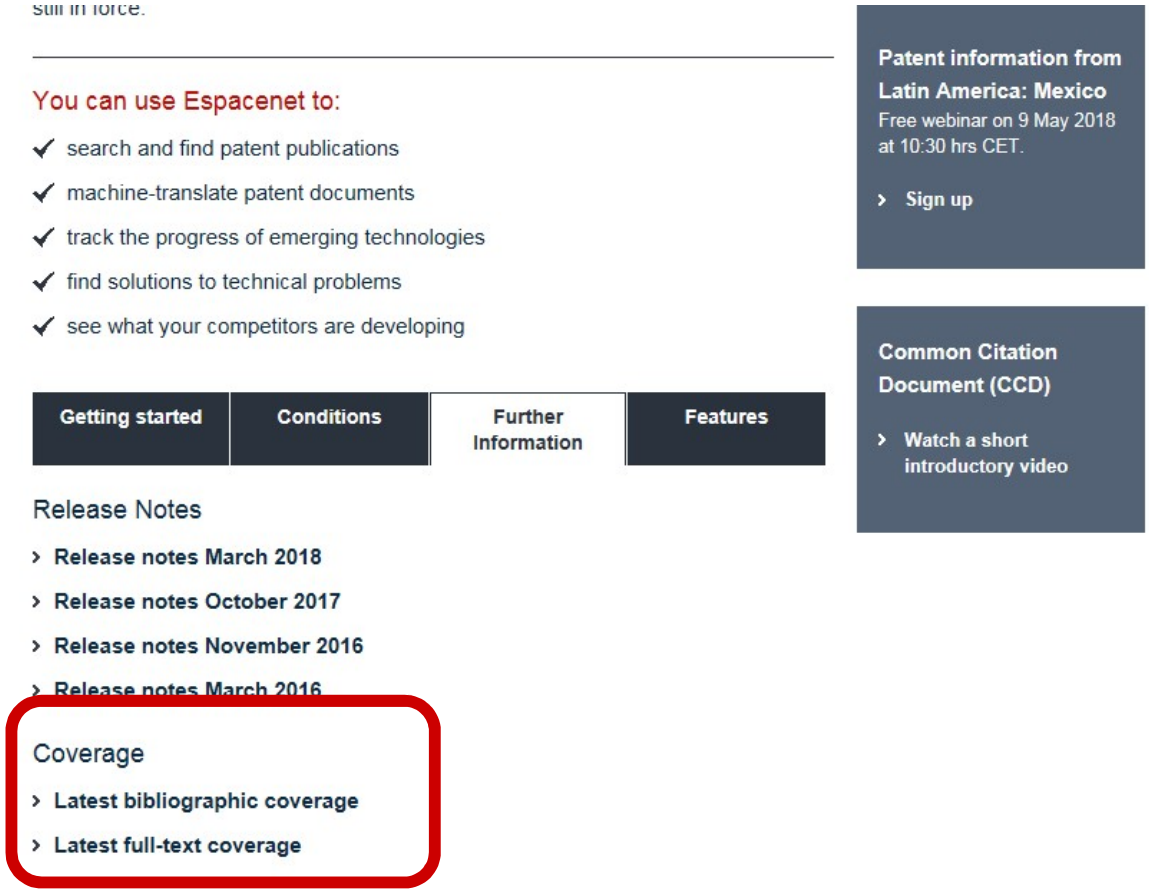
Coverage



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Bibliographic coverage

Latest bibliographic coverage

This is an automated daily update of the coverage provided by the EPO's bibliographic database.

Coloured rows indicate that the data has changed compared to the previous day. The details of the changes are indicated in green. If a new row of data is created, all entries are in green. If gaps in coverage are filled without any change of the first/latest publication, only the total number of documents is in green.

Snapshot date: 19.6.2018 / Total count: 106.597.753

☐ Show only changes

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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Full-text coverage

Latest full-text coverage

This is an automated daily update of the coverage provided by the EPO's full-text databases.

Coloured rows indicate that the data has changed compared to the previous day. The details of the changes are indicated in green. If a new row of data is created, all entries are in green. If gaps in coverage are filled without any change of the first/latest publication, only the total number of documents is in green.

Snapshot date: 19.6.2018 / Total count: 80.474.975

☐ Show only changes

Country code	Kind	Language	First publication	Latest publication	Total coverage
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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For more information, please contact:

tisc@wipo.int

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