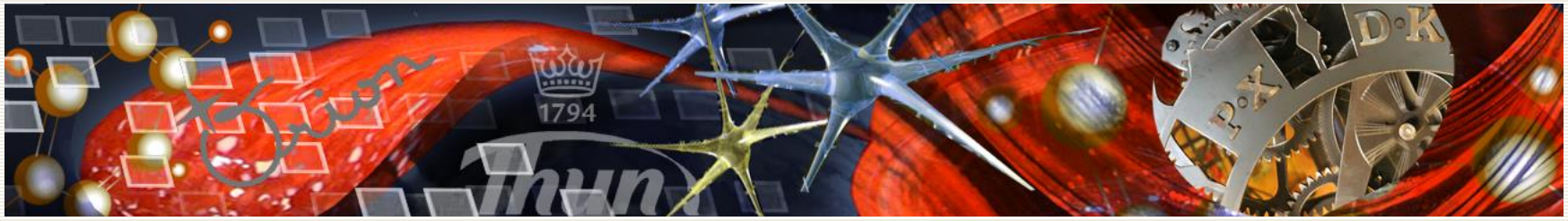
ESPACENET

Hana Churáčková

Praha, 28. 4. 2022



Co je Espacenet?

- Volně přístupná databáze
- Informace o vynálezech a technických řešeních od 18. st. až do současnosti
- Více než 130 mil. patentových dokumentů (patentové přihlášky, patenty užitné vzory od r. 1782….) z celého světa

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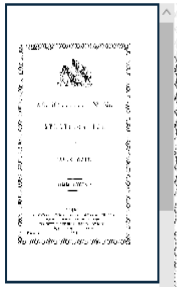


A.D. 1782 . . . . . N° 1321.

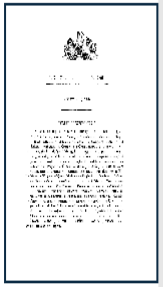
SPECIFICATION

OF

JAMES WATT.

STEAM ENGINES.

LONDON:
PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:
PUBLISHED AT THE GREAT SEAL PATENT OFFICE,
25, SOUTHAMPTON BUILDINGS, HOLBORN.



A.D. 1782 . . . . . N° 1321.

Steam Engines.

WATT'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES WATT, of Birmingham, in the County of Warwick, Engineer, send greeting.

WHEREAS His most Excellent Majesty King George the Third, by His Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Twelfth day of March, in the twenty-second year of His reign, did give and grant unto me, the said James Watt, His especial licence, full power, sole privilege and authority, that I, the said James Watt, my exors, admors, and assigns, should and lawfully might, during the term of years therein expressed, make, use, exercise, and vend, within that part of His Majesty's Kingdom of Great Britain called England, His Dominion of Wales, and Town of Berwick-upon-Tweed, my Invention of "CERTAIN NEW IMPROVEMENTS UPON STEAM OR FIRE ENGINES FOR RAISING WATER, AND OTHER MECHANICAL PURPOSES, AND CERTAIN NEW PIECES OF MECHANISM APPLICABLE TO THE SAME;" in which said recited Letters Patent is contained a proviso obliging me, the said James Watt, by an instrument in writing under my hand and seal, to cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, to be inrolled in His Majesty's High Court of

K čemu Espacenet slouží?

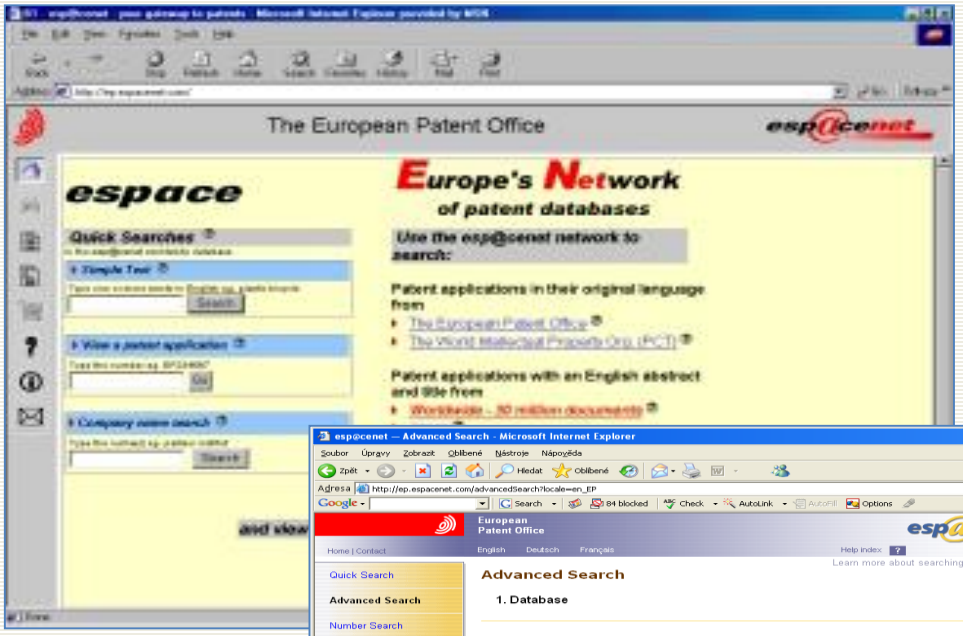
- Sledování nových technologií
- Hledání řešení vašich technických problémů
- Sledování konkurence
- Strojové překlady patentových dokumentů (Patent Translate)

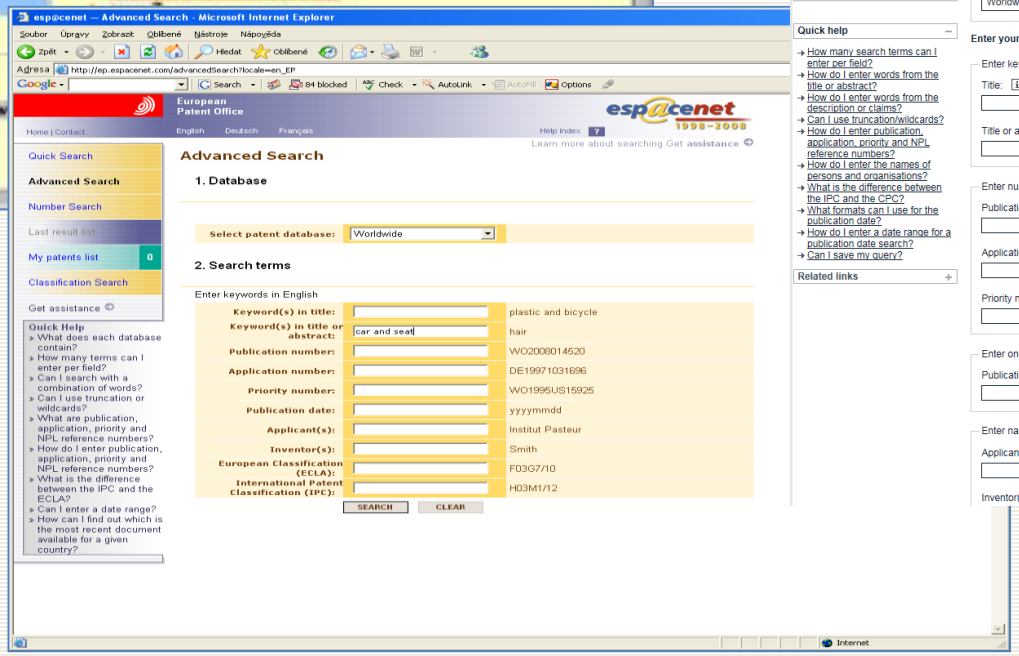
Komu je Espacenet určen?

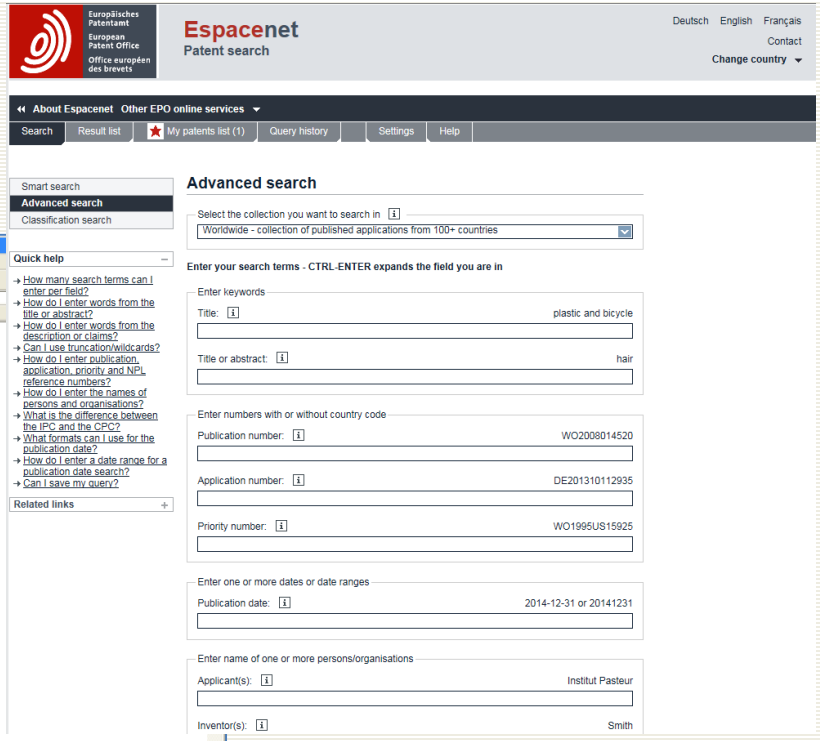
- Začátečníci i profesionálové
- Vědci, výzkumní a vývojoví pracovníci, konstruktéři…..
- Podnikatelé, manažeři…..
- Patentoví examinátoři…..

Espacenet – 19. 10. 1998

www.espacenet.com

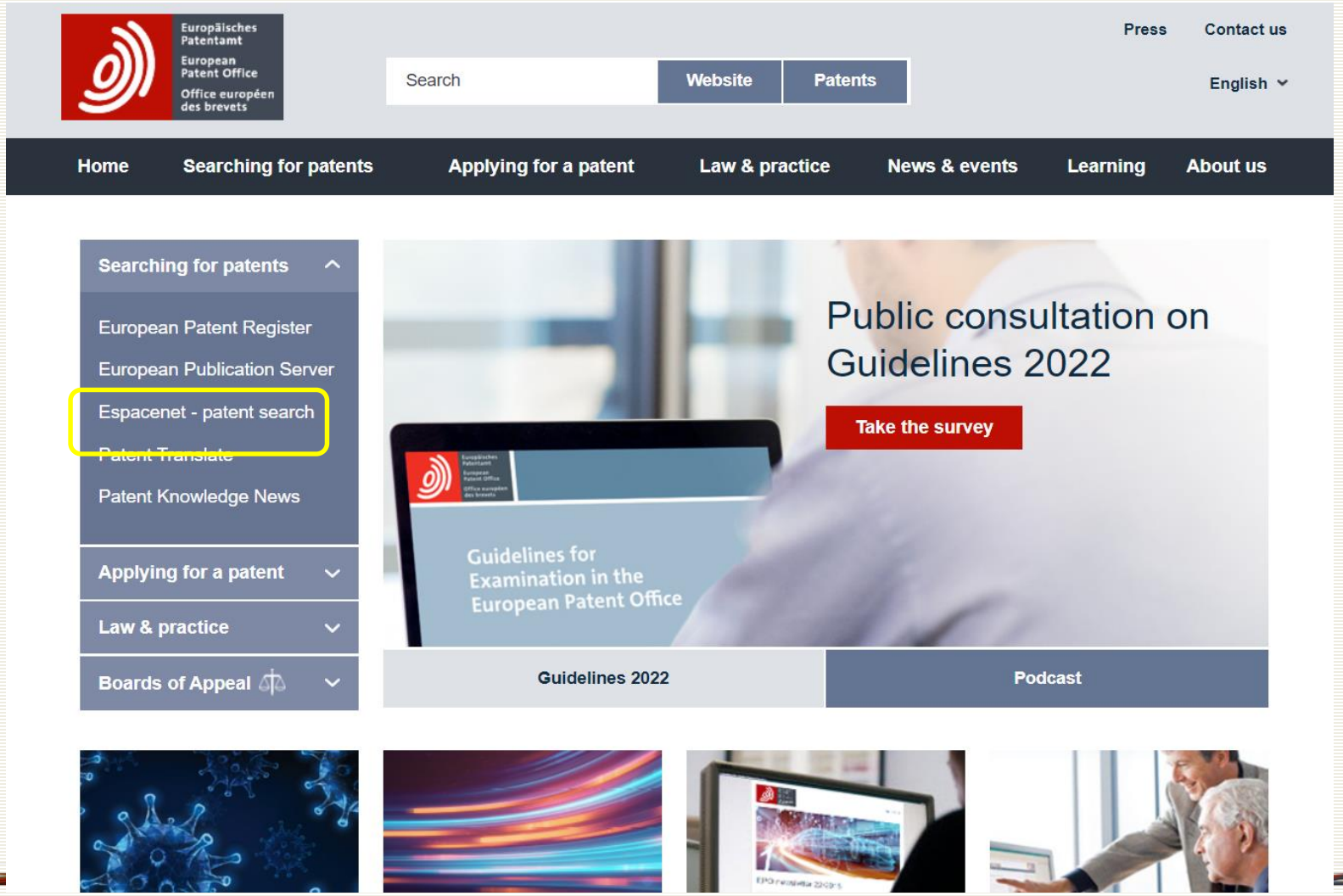






„Nový“ Espacenet
od 19.11.2019

http://www.epo.org
https://worldwide.espacenet.com/



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Searching

Smart search field identifiers and Advanced search fields

Smart search and **Advanced search** have been synchronised. The table below lists the field identifiers that you can use in **Smart search** and their equivalents in **Advanced search**.

Field identifier in Smart search in new Espacenet	 *in classic Espacenet*	Description / Equivalent search field in Advanced search	Example
nftxt	-	All text fields or names	nftxt="extreme uv lithography"
ntxt	*txt*	Title, abstract or names	ntxt=microscope lens
ti	*ti*	Title	ti="mouse trap"
ab	*ab*	Abstract	ab="mouse trap"
desc	*desc*	Description	desc=lens
claims	*claims*	Claims	claims=laser
ta	*ta*	Title or abstract	ta="laser printer"
ctxt	-	Title, abstract or claims	ctxt=milking ctxt=robots
ftxt	*extftxt*	All text fields (title, abstract, description or claims)	ftxt=nanoparticles
in	*in*	Inventors	in=smith
pa	*pa*	Applicants	pa=siemens
ia	*ia*	Inventors or applicants	ia=apple OR ia="ries klaus"
pd[1]	*pd*	Publication date	pd=20180107
pr	*pr*	Priority number	pr=ep20050104792
pn	*pn*	Publication number	pn=ep1000000 pn=EPB1[2]
ap	*ap*	Application number	ap=jp19890234567
num	*num*	Numbers	num=ep1000000
ipc	*ipc*	IPC	ipc=A63B49/08
cpc	*cpc*	CPC	cpc="A61K31/13"
cpcc	*cpcc*	CPC C-sets	cpcc="C08F297/02"
cl	*cl*	IPC or CPC	cl=C10J3
ct	*ct*	Cited documents	ct=ep1000000

[1] [illegible]

Operators

Operator		Example in Smart search	Description
Boolean operators[3]	AND	pa=bosch AND pa=siemens	will retrieve documents where both **Bosch** and **Siemens** are applicants
	OR	in=smith OR in=huber	will retrieve documents where the inventor's name is **Smith** or **Huber**
	NOT	txt=laser NOT semiconductor	will retrieve documents containing laser, while excluding documents containing **semiconductor**
Proximity operators	prox/distance<nr	mouse prox/distance<3 trap	will retrieve documents where mouse and trap are fewer than three words apart, independently of the order in which mouse and trap appear
	prox/distance<nr/ ordered	mouse prox/distance<3/ordered trap	will retrieve documents where mouse and trap occur in that order and are fewer than three words apart
	prox/ordered	mouse prox/ordered trap	will retrieve documents where mouse appears before trap
	prox/unit=sentence	mouse prox/unit=sentence trap cpc=(C08F220/38 prox/unit=sentence (EP)) cpcc=(C08F218/08 prox/unit=sentence (C08F220/06, US, EP))	will retrieve, in the first example, documents where mouse and trap occur in the same sentence will retrieve, in the second example, documents with the classification symbol **C08F220/38** assigned by **EP** will retrieve, in the third example, documents with the C-sets **C08F218/08** and **C08F220/06** assigned by US and EP
	prox/unit=paragraph	mouse prox/unit=paragraph trap	will retrieve documents where mouse and trap occur in the same paragraph
Comparison operators	all[4]	ti all "paint brush head"	will retrieve documents containing all words entered within quotes but not necessarily in the order in which the words appear
	any[5]	ti any "motor engine"	will retrieve documents containing any of the words entered within quotes
	=	pa=siemens pa = "siemens ag"	will retrieve documents where either Siemens or Siemens AG are applicants
	>	pd > 1998	will retrieve documents having a publication date after 1998
	>=	pd >= 1998	will retrieve documents having a publication date in or after 1998
	<	pd < 1998	will retrieve documents having a publication date before 1998
	<=	pd <= 2018	will retrieve documents having a publication date in or before 2018
	within	pd within "1998 2018" pd within "1998, 2018"	will retrieve documents published between 19980101 and 20181231.

GARÁŽ.CZ Novinky Videa Testy Tipy a rady Veteráni

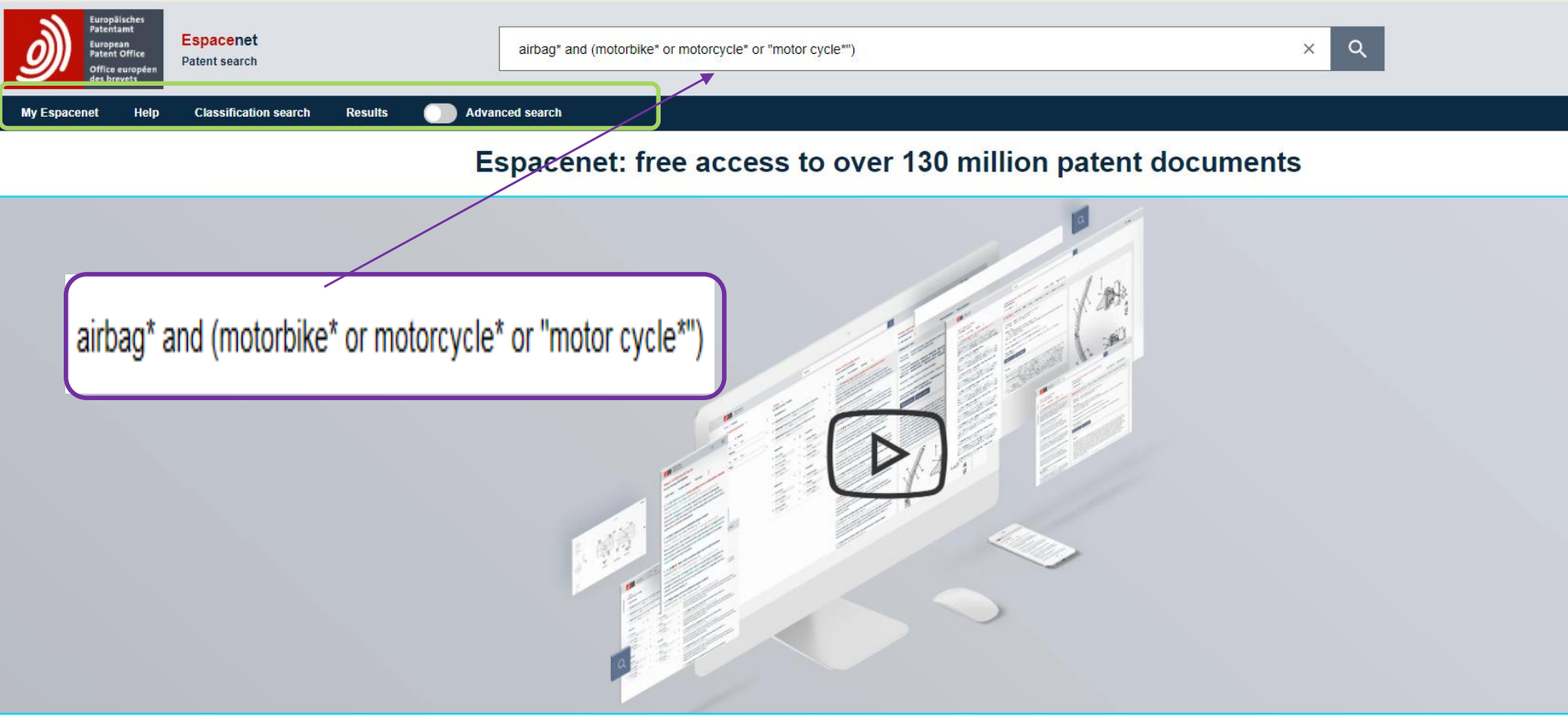
Třetí model Jawy z řady 350 OHC je stylový Scrambler!

Airbag přímo na motorce? Jeden by tu byl

Ano, airbag na motorce skutečně existuje, a skutečně je pouze jeden. Stojí za ním japonská Honda, která ho do svého cestovního modelu Goldwing nainstalovala poprvé v roce 2006. Honda si totiž ze statistik zjistila, že nejvíc nehod motorkářů se zraněním či úmrtím vzniká čelním nárazem, ať už do auta nebo do čehokoliv jiného.

Goldwing má tedy svůj unikátní příplatkový airbag umístěn před jezdcem v místě, kde se normálně nachází nádrž. Jakmile dojde k nárazu, čidla na předku motorky zavelí a před jezdce se během milisekund postaví velká „homole“ airbagu, do níž se při dopředném pohybu zaboří. Nevylétne tak z motorky vpřed, neporaní se o řídítka ani o nic dalšího před sebou.

Zdroj: https://www.garaz.cz/clanek/s-pytlem-na-motorku-jak-se-pouziva-airbag-v-jedne-stope-21001475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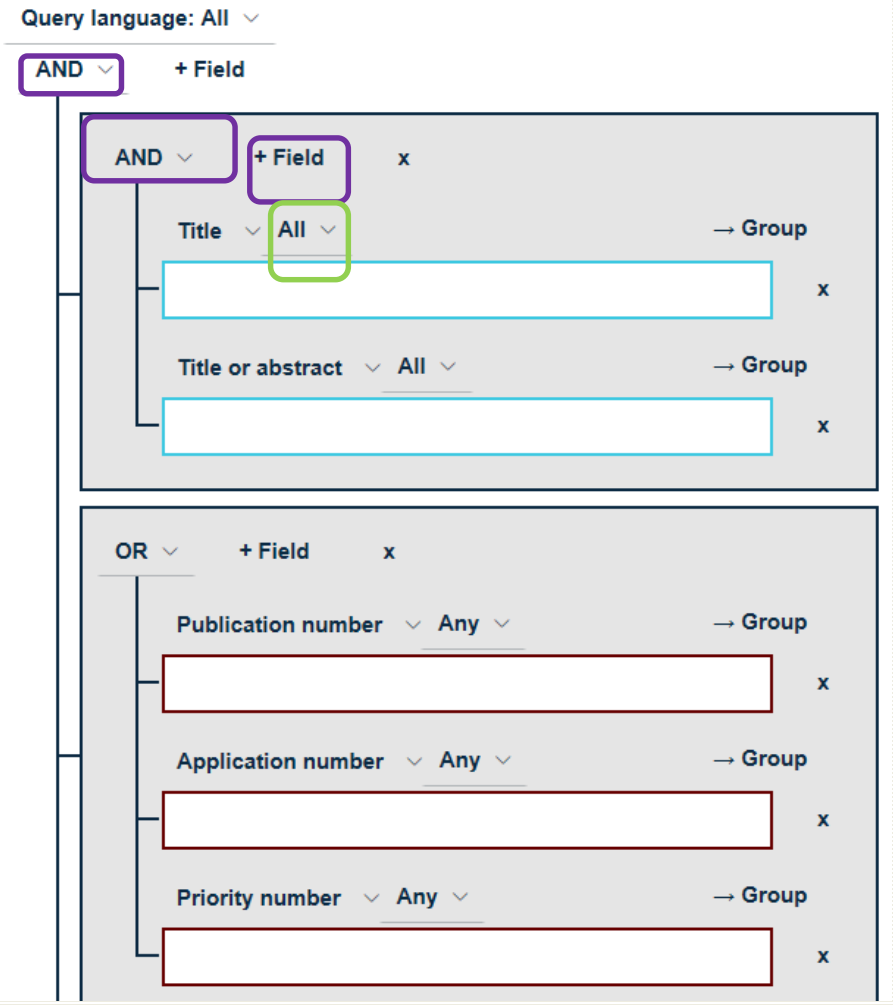
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AND
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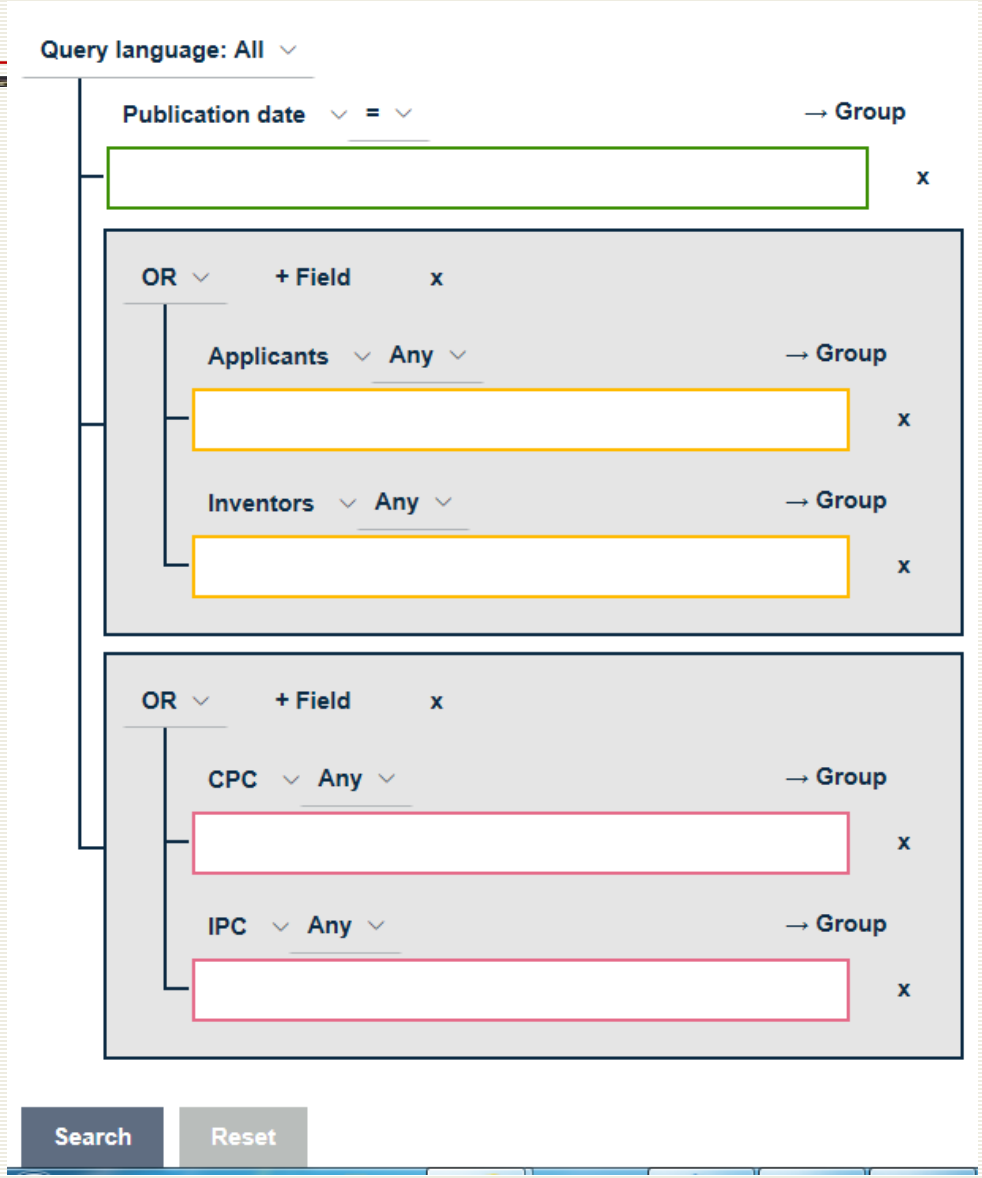
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Publication date
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Applicants
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OR
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IPC
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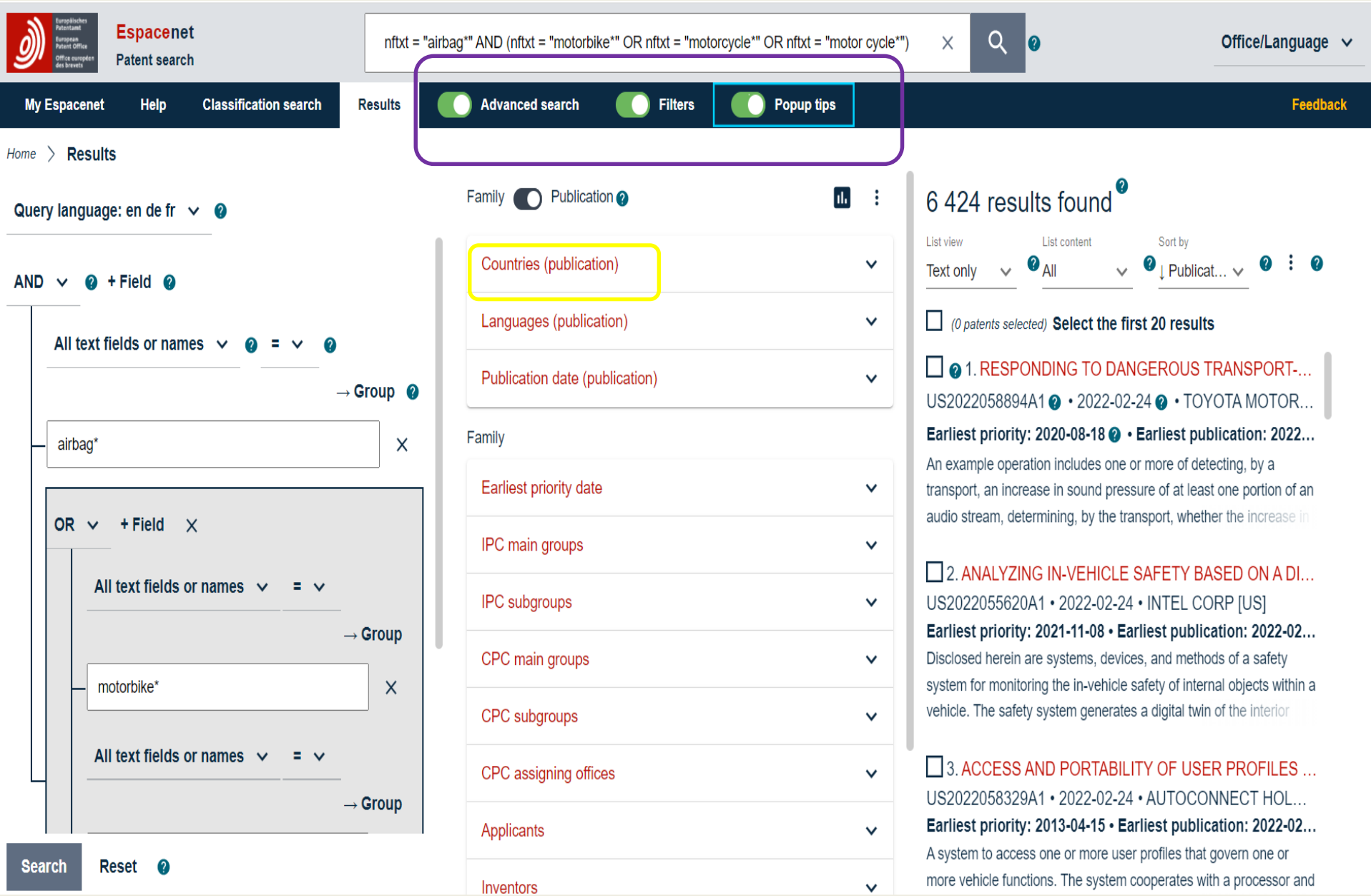
1. RESPONDING TO DANGEROUS TRANSPORT-RE…
US2022058894A1 • 2022-02-24 • TOYOTA MOTOR NOR…
Earliest priority: 2020-08-18 • Earliest publication: 2022-02…
An example operation includes one or more of detecting, by a transport, an increase in sound pressure of at least one portion of an audio stream, determining, by the transport, whether the increase in

2. ANALYZING IN-VEHICLE SAFETY BASED ON A DI…
US2022055620A1 • 2022-02-24 • INTEL CORP [US]
Earliest priority: 2021-11-08 • Earliest publication: 2022-02…
Disclosed herein are systems, devices, and methods of a safety system for monitoring the in-vehicle safety of internal objects within a vehicle. The safety system generates a digital twin of the interior

3. ACCESS AND PORTABILITY OF USER PROFILES …
US2022058329A1 • 2022-02-24 • AUTOCONNECT HOL…
Earliest priority: 2013-04-15 • Earliest publication: 2022-02…
A system to access one or more user profiles that govern one or more vehicle functions. The system cooperates with a processor and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Query language: en de fr
AND
+ Field
All text fields or names
=
→ Group
airbag*
OR
+ Field
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→ Group
motorbike*
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1. RESPONDING TO DANGEROUS TRANSPORT-...
US2022058894A1 • 2022-02-24 • TOYOTA MOTOR...
Earliest priority: 2020-08-18 • Earliest publication: 2022...
An example operation includes one or more of detecting, by a transport, an increase in sound pressure of at least one portion of an audio stream, determining, by the transport, whether the increase in
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Earliest priority: 2021-11-08 • Earliest publication: 2022-02...
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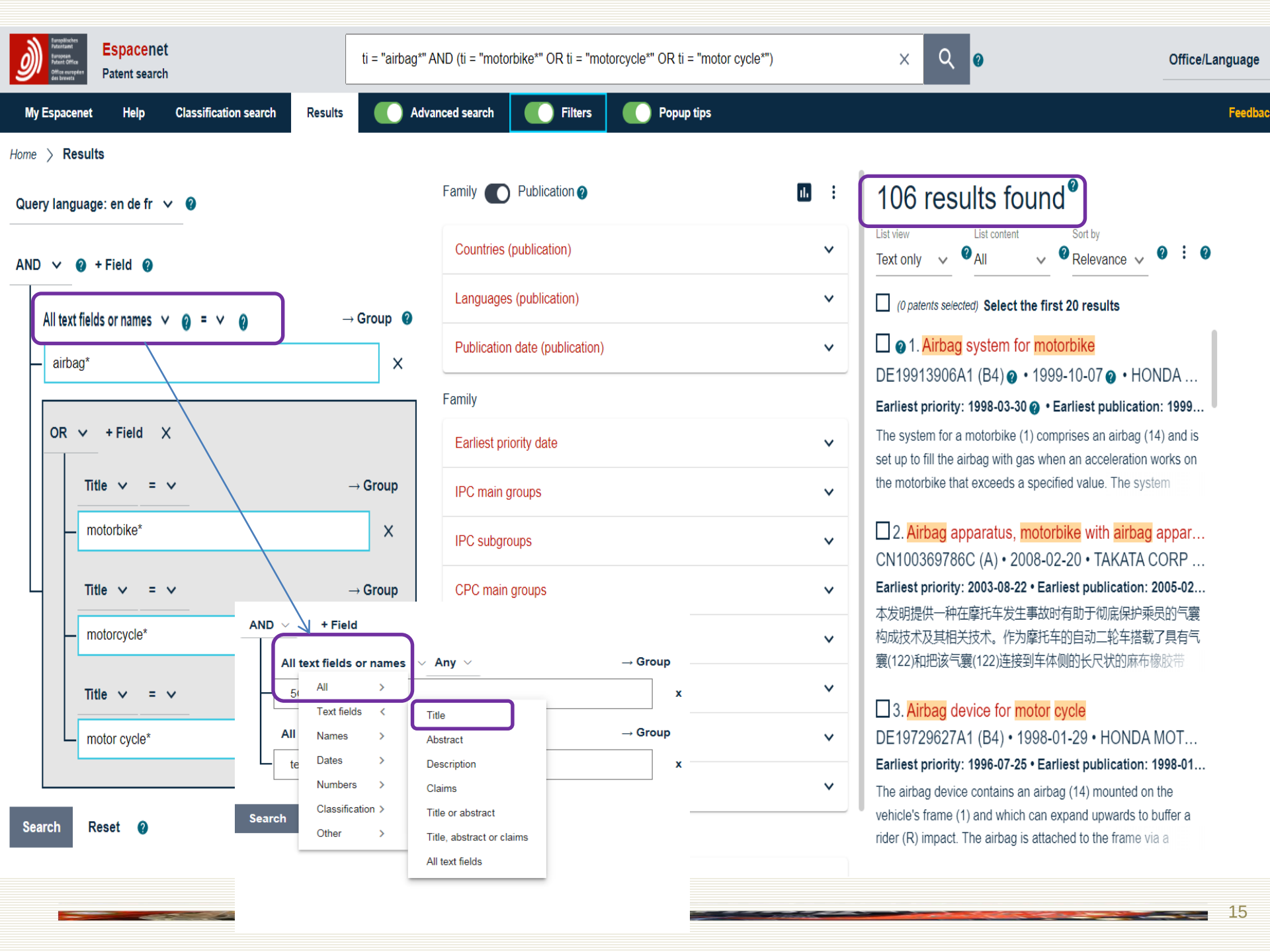
US2022058329A1 • 2022-02-24 • AUTOCONNECT HOL...
Earliest priority: 2013-04-15 • Earliest publication: 2022-02...
A system to access one or more user profiles that govern one or more vehicle functions. The system cooperates with a processor and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ti = "airbag*" AND (ti = "motorbike*" OR ti = "motorcycle*" OR ti = "motor cycle*")
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AND
+ Field
All text fields or names
=
→ Group
airbag*
OR
+ Field
Title
=
→ Group
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→ Group
motorcycle*
Title
=
motor cycle*
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Claims
Title or abstract
Title, abstract or claims
All text fields
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106 results found
List view
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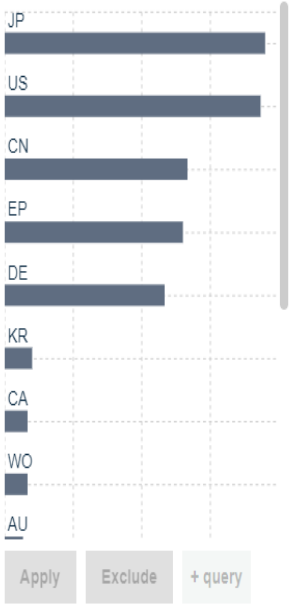
(0 patents selected) Select the first 20 results
1. Airbag system for motorbike
DE19913906A1 (B4) • 1999-10-07 • HONDA ...
Earliest priority: 1998-03-30 • Earliest publication: 1999...
The system for a motorbike (1) comprises an airbag (14) and is set up to fill the airbag with gas when an acceleration works on the motorbike that exceeds a specified value. The system
2. Airbag apparatus, motorbike with airbag appar...
CN100369786C (A) • 2008-02-20 • TAKATA CORP ...
Earliest priority: 2003-08-22 • Earliest publication: 2005-02...
本发明提供一种在摩托车发生事故时有助于彻底保护乘员的气囊构成技术及其相关技术。作为摩托车的自动二轮车搭载了具有气囊(122)和把该气囊(122)连接到车体侧的长尺状的麻布橡胶带
3. Airbag device for motor cycle
DE19729627A1 (B4) • 1998-01-29 • HONDA MOT...
Earliest priority: 1996-07-25 • Earliest publication: 1998-01...
The airbag device contains an airbag (14) mounted on the vehicle's frame (1) and which can expand upwards to buffer a rider (R) impact. The airbag is attached to the frame via a

106 results found for: ti = "airbag*" AND (ti = "motorbike*" OR ti = "motorcycle*" OR ti = "motor cycle*")

Countries (publication)



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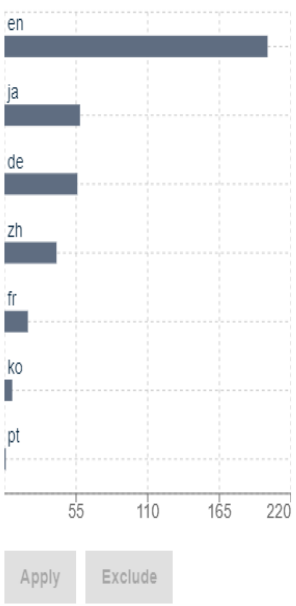
Languages (publication)



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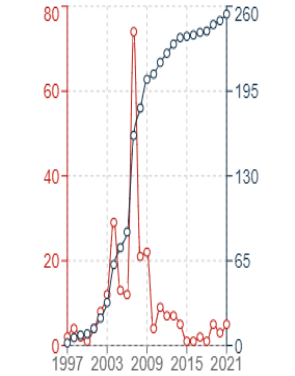
Publication date (publication)

From 1997-01-01

To 2021-12-31

1997 2021



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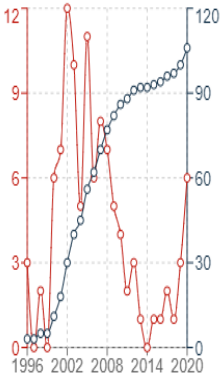
Earliest priority date

From 1996-01-01

To 2020-12-31

1996 2020



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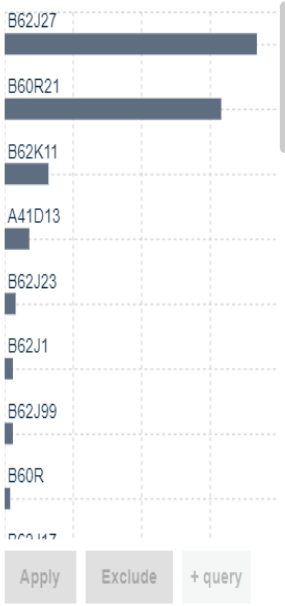

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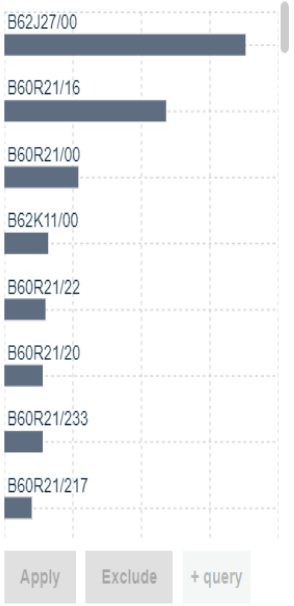
IPC subgroups



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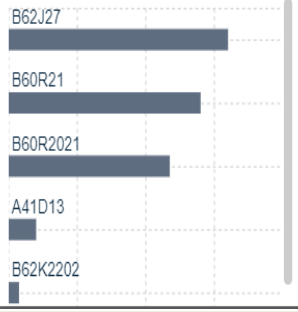
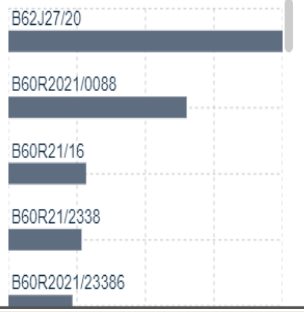
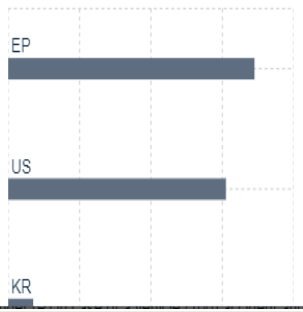
CPC main groups



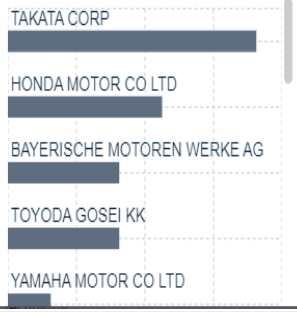
CPC subgroups



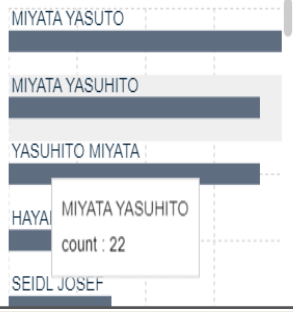
CPC assigning offices



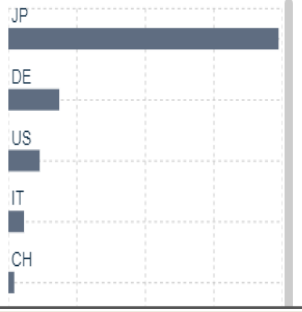
Applicants

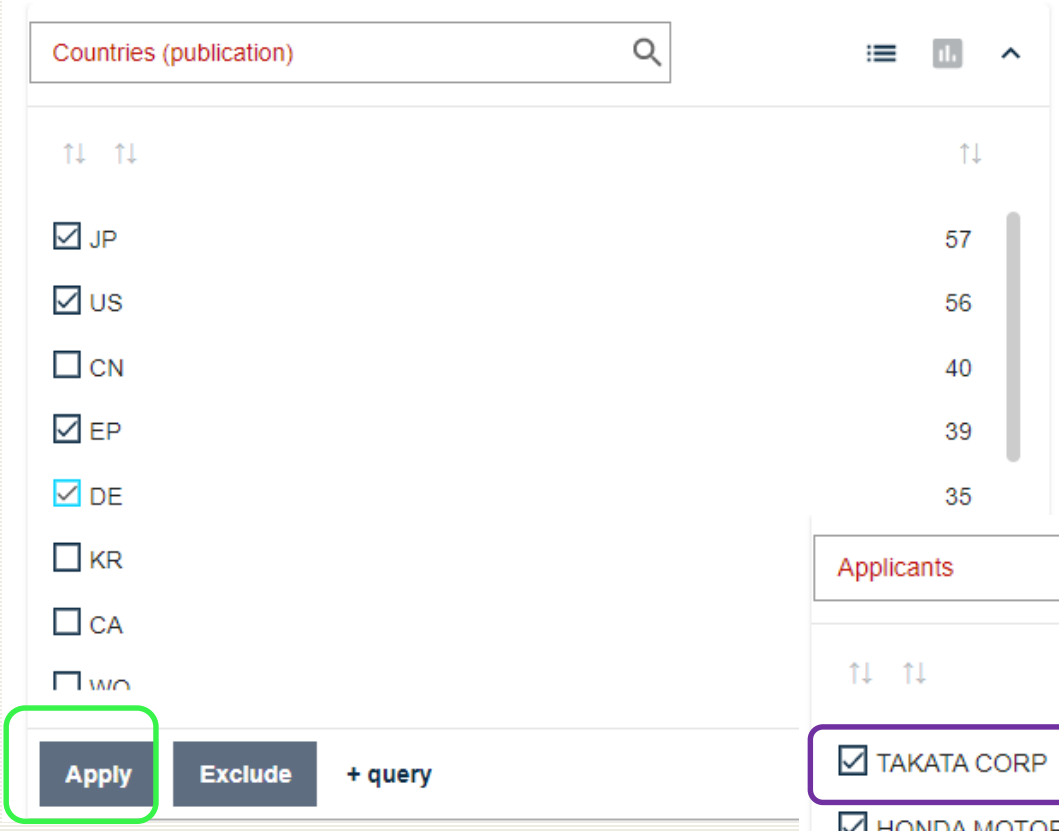


Inventors



Applicants - country

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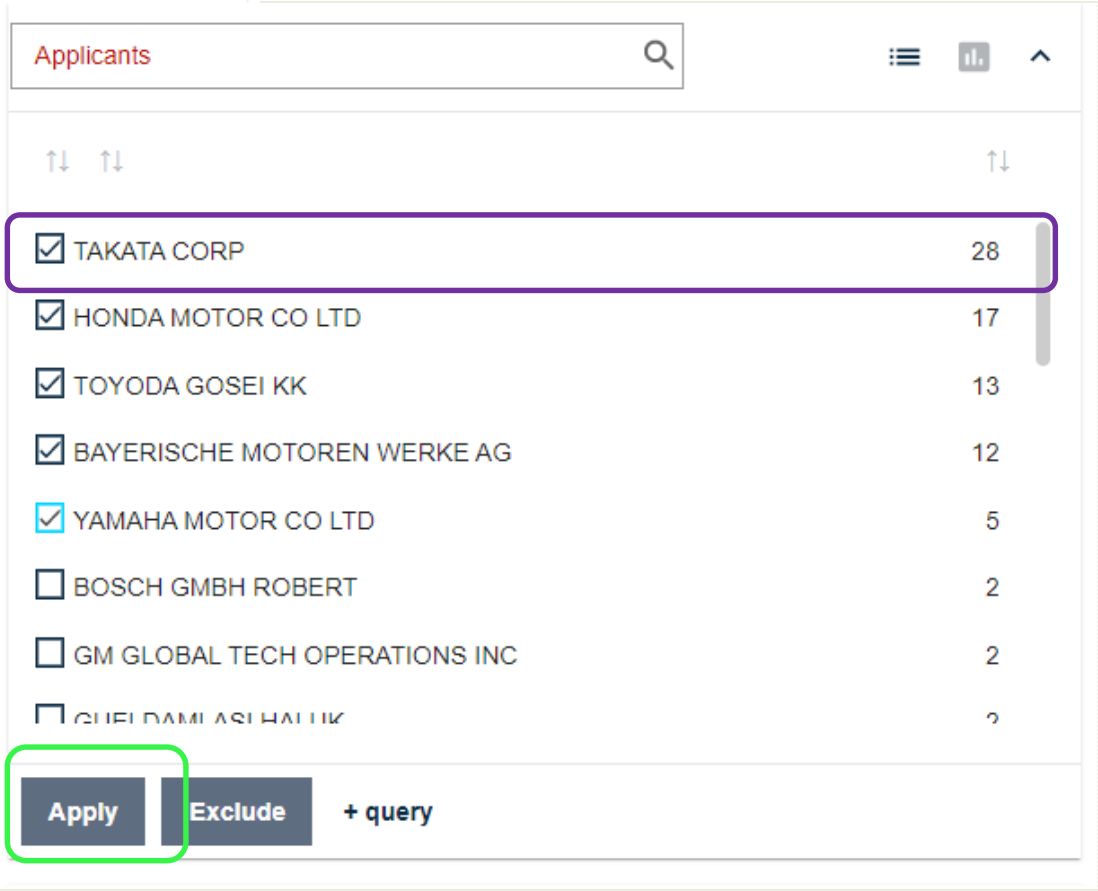
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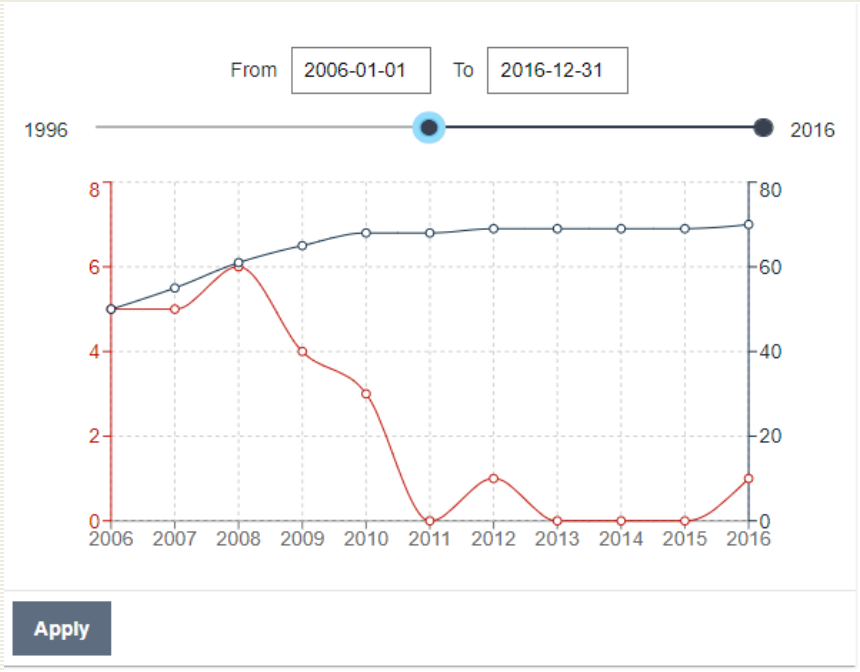
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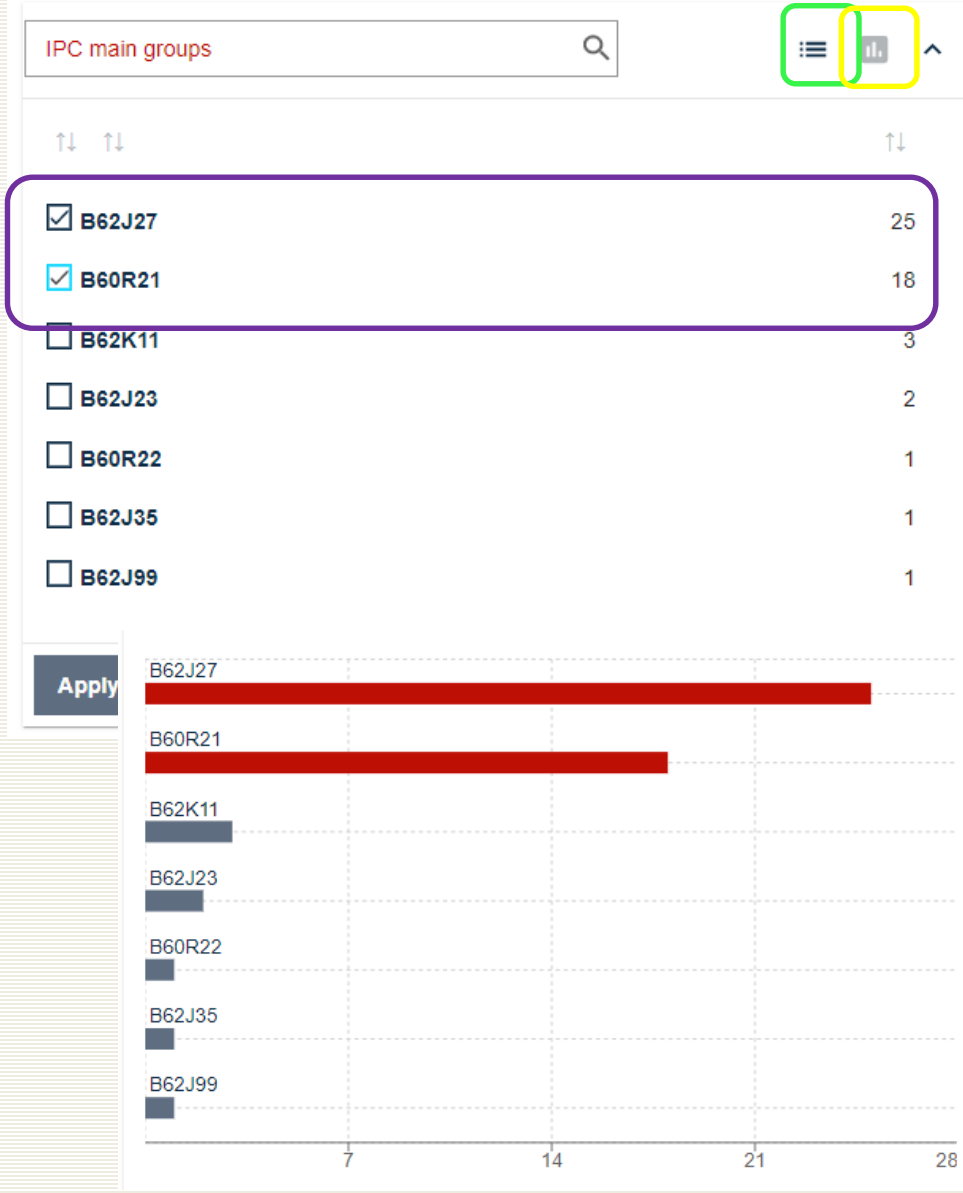
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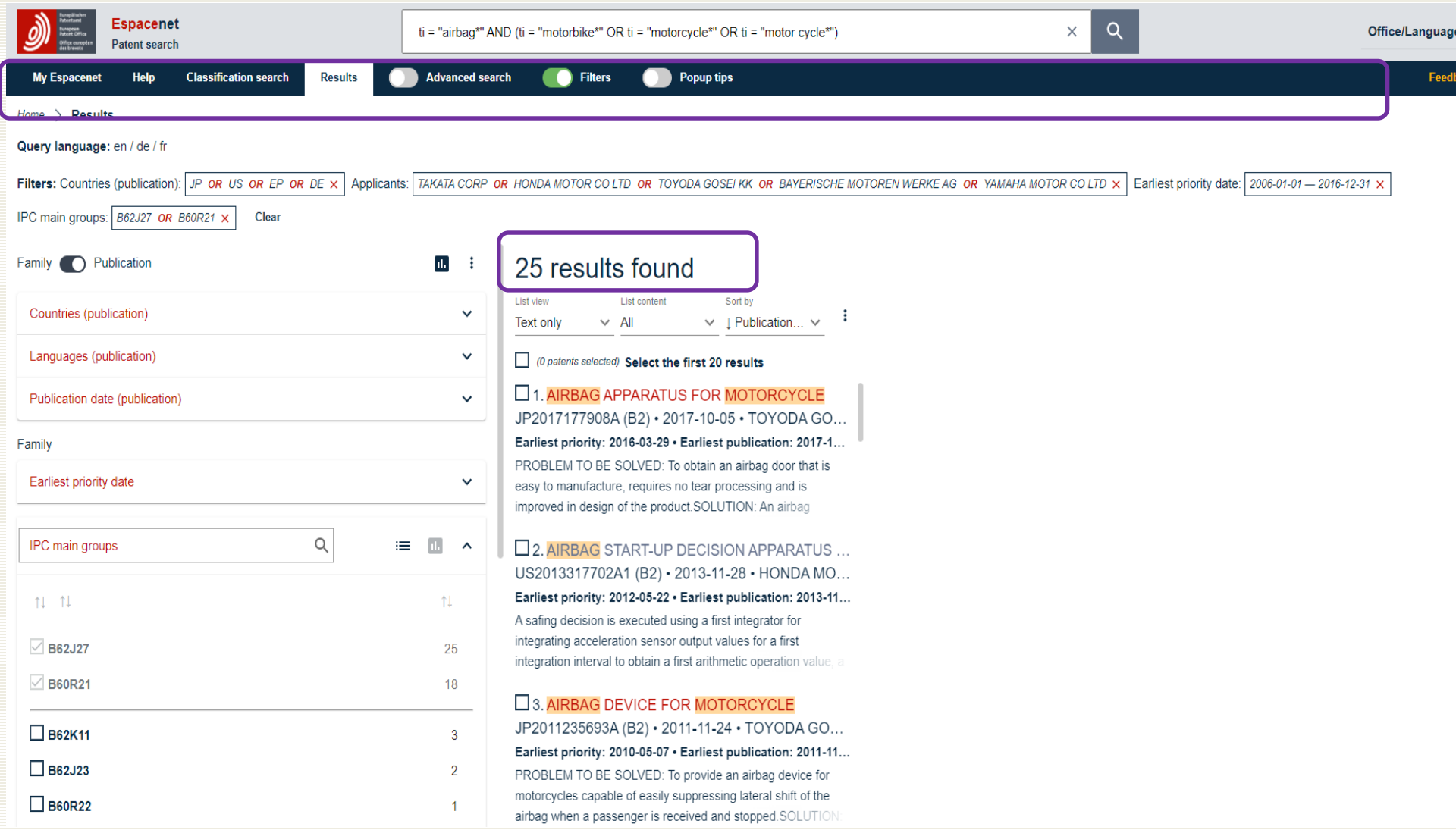
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1. AIRBAG APPARATUS FOR MOTORCYCLE
JP2017177908A (B2) • 2017-10-05 • TOYODA GO...
Earliest priority: 2016-03-29 • Earliest publication: 2017-1...
PROBLEM TO BE SOLVED: To obtain an airbag door that is easy to manufacture, requires no tear processing and is improved in design of the product.SOLUTION: An airbag
2. AIRBAG START-UP DECISION APPARATUS ...
US2013317702A1 (B2) • 2013-11-28 • HONDA MO...
Earliest priority: 2012-05-22 • Earliest publication: 2013-11...
A safing decision is executed using a first integrator for integrating acceleration sensor output values for a first integration interval to obtain a first arithmetic operation value, a
3. AIRBAG DEVICE FOR MOTORCYCLE
JP2011235693A (B2) • 2011-11-24 • TOYODA GO...
Earliest priority: 2010-05-07 • Earliest publication: 2011-11...
PROBLEM TO BE SOLVED: To provide an airbag device for motorcycles capable of easily suppressing lateral shift of the airbag when a passenger is received and stopped.SOLUTION

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25. Airbag system and motorcycle with airbag sy...
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Inventors: MIYATA YASUHITO [JP] +

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IPC: ***B60R21/16; B60R21/233; B60R21/2338; B60R21/237; B62J27/00;***

CPC: **B60R21/233 (EP,US); B60R21/2338 (EP,US); B62J27/20 (EP,US);** B60R2021/0088 (EP,US); B60R2021/161 (EP,US); B60R2021/23386 (EP,US)

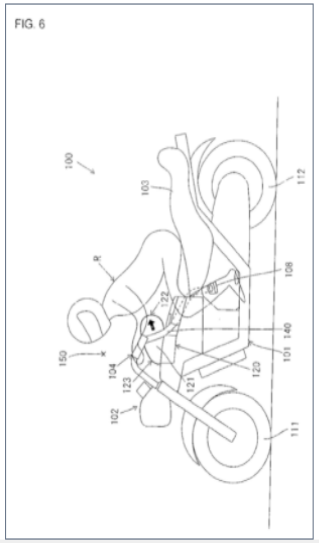
Priorities: JP2006016835A·2006-01-25

Application: EP07000704A·2007-01-15

Publication: EP1813519A2·2007-08-01

Published as: **CN101007556A; CN101007556B;** EP1813519A2;**EP1813519A3; EP1813519B1; JP2007196816A; JP4781828B2; US2007170702A1; US7566070B2**

Front-page drawing from EP1813519A2



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EP1813519A2 (A3,B1) • 2007-08-01 • …
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21. Airbag system for motorcycle
EP1905681A1 (B1) • 2008-04-02 • HONDA MOTOR CO …
Earliest priority: 2006-09-29 • Earliest publication: 2008-03-29

22. AIRBAG DEVICE FOR MOTORCYCLE
JP2008068864A (B2) • 2008-03-27 • HONDA MOTOR C…
Earliest priority: 2007-10-17 • Earliest publication: 2008-03-27

23. Motorcycle airbag system and motorcycle

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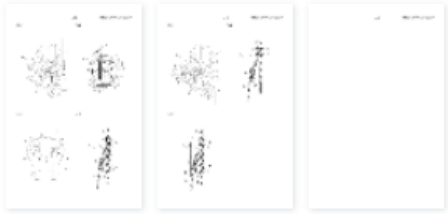
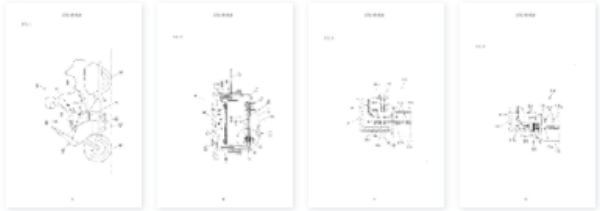


13. Airbag device and motorcycle with airbag device



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Applicants: TAKATA CORP [JP] +

Inventors: MIYATA YASUHITO [JP] +

Classifications

IPC: *B60R21/16; B60R21/233; B60R21/2338; B60R21/237; B62J27/00;*

CPC: **B60R21/233 (EP,US); B60R21/2338 (EP,US); B62J27/20 (EP,US);** B60R2021/0088 (EP,US); B60R2021/161 (EP,US); B60R2021/23386 (EP,US);

Priorities: JP2006016835A 2006-01-25

Application: EP07000704A 2007-01-15

Publication: EP1813519A2 2007-08-01

Published as: **CN101007556A; CN101007556B;** EP1813519A2; **EP1813519A3; EP1813519B1; JP2007196816A; JP4781828B2; US2007170702A1; US7566070B2**

EN DE FR

Motorcycle with airbag system

Abstract

In order to provide a technique effective in improving rider restraint performance of an airbag (121) in an airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) includes airbag restricting means (140) for restricting the deployment of the airbag (121) toward the rider's head at the early stage of the deployment of the airbag (121) in the event of a head-on collision of the vehicle.

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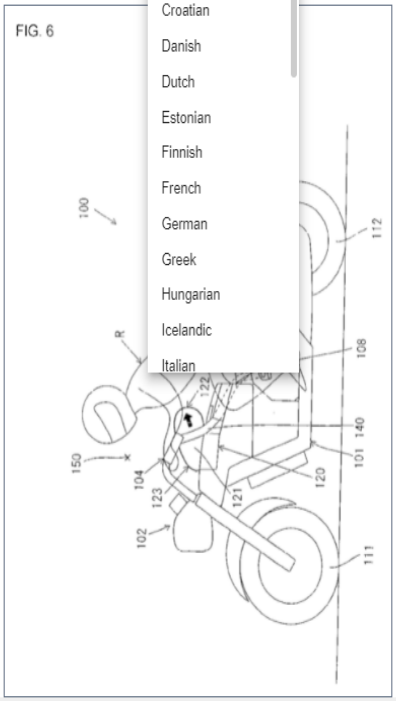
FIG. 6



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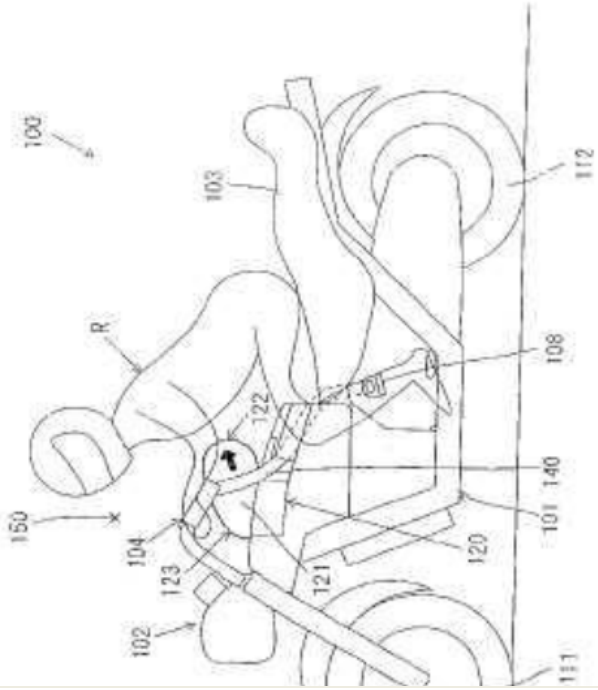
Oznámení

ANOTACE EP1813519A2

[0001]

Za účelem poskytnutí techniky účinné pro zlepšení zadržovacího výkonu airbagu (121) pro jezdce v systému airbagů (120), který má být namontován na motocykl (100), je systém airbagů (120) namontován na motocykl (100) zahrnuje prostředky (140) omezující airbag pro omezení rozvinutí airbagu (121) směrem k hlavě jezdce v rané fázi rozvinutí airbagu (121) v případě čelní srážky vozidla.

FIG. 6



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EP1813519A2 Motorcycle with airbag system

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Priorities: JP2006016835A 2006-01-25

Application: EP07000704A 2007-01-15

Publication: EP1813519A2 2007-08-01

Published as: **CN101007556A; CN101007556B;** EP1813519A2; **EP1813519A3; EP1813519B1; JP2007196816A; JP4781828B2; US2007170702A1; US7566070B2**

EN DE FR

Motorcycle with airbag system

Abstract

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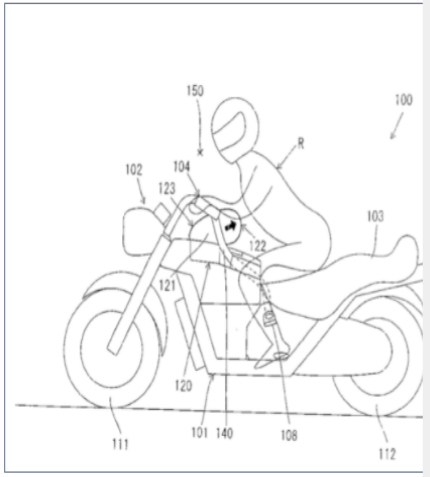
Front-page drawing from EP1813519A2



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EN

[Technical Field]

[0001] The present invention relates to a technique of constructing an airbag system to be mounted to a motorcycle.

[Background Art]

[0002] Various techniques for restraining the rider of a motorcycle with an airbag system mounted to the motorcycle are known. For example, known techniques include a technique of restraining the rider of a motorcycle in the event of a head-on collision by inflating an airbag housed in a case mounted to the body frame (refer to Japanese Unexamined Patent Application Publication No. 2002-137777). The technique presents the possibility of providing a wide restraint area of the airbag. However, for an airbag system to be mounted to a vehicle in which the periphery of the rider is open, such as a motorcycle, there is a great demand for improving the performance of restraining the rider by inflating the airbag in a desired state in the event of a head-on collision.

[Disclosure of the Invention][Problems to be Solved by the Invention]

[0003] The present invention is made in view of this point. Accordingly, it is an object of the invention to provide a technique effective in improving the performance of restraining a rider by an airbag in an airbag system to be mounted to a motorcycle.

[Means for Solving the Problems]

[0004] According to the present invention, this object is achieved by an airbag system as defined in claim 1 and a motorcycle as defined in claim 5. The dependent claims define preferred and advantageous embodiments of the invention.

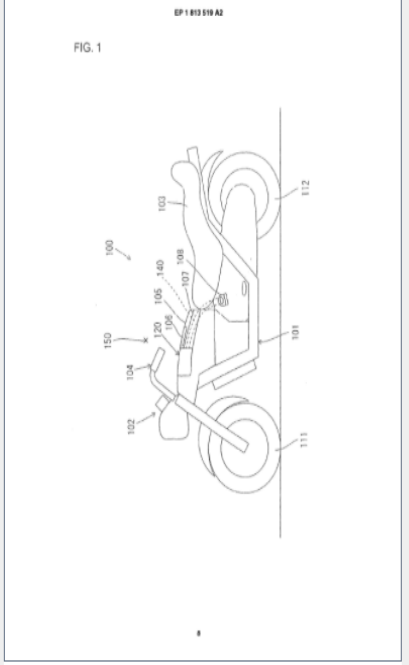
[0005] In order to attain the above object, the invention described in the following claims is provided. The invention described in the claims is typically applicable to the construction of the airbag system to be mounted in various kinds of motorcycle. In this specification, "a motorcycle", a typical example of vehicles, includes various straddle-type vehicles that a rider straddles, such as touring motorcycles having a fuel tank in front of a rider seat and motor scooters having a space between a rider seat and a handlebar-supporting head pipe. In addition to the motorcycles, the "motorcycle" includes vehicles that riders straddle and that have three or more running wheels (e.g., three-wheel motorbikes for use in home delivery service and three- or four-wheel buggies for bad roads) and vehicles that riders ride on and that run by sleighs or caterpillars, such as snow mobiles.

[0006] According to a first aspect of the present invention for solving the problems, an airbag system is provided. The airbag system is to be mounted to a motorcycle, and includes at least an airbag, gas supply means, and airbag restricting means.

[0007] The airbag of the invention is an airbag for restraining a rider, which restrains a rider by deploying toward a rider restraint region in front of the rider in a head-on collision of the motorcycle.

[0008] The gas supply means of the invention supplies airbag-inflation gas to the airbag so as to deploy the airbag toward the rider restraint region in front of the rider in a head-on collision of the motorcycle. Typically, the gas supply means of the invention has the mechanism of generating airbag-inflation gas when sensing the head-on collision of the motorcycle and guiding the airbag-inflation gas into the airbag. The "head-on collision" here broadly includes collisions with a running or still object in front of the motorcycle, for example, another vehicle, a pedestrian, or an obstacle. The "rider restraint region" here is defined as a space extending in the direction of the forward movement of a rider, for restraining the rider who is flung ahead of the motorcycle by a kinetic energy during a head-on collision.

[0009] It is desirable for the airbag system of this type to be mounted to a motorcycle that the airbag not only inflates to the rider restraint region in front of the rider but also inflates according to the situation. Specifically, when the airbag first inflates toward



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1. An airbag system (120) to be mounted to a motorcycle (100), comprising:

an airbag (121) for restraining a rider (R);

gas supply means (124) for supplying airbag-inflation gas to the airbag (121) to deploy the airbag (121) toward a rider restraint region (150) in front of the rider (R) in a head-on collision of the motorcycle (100); and

airbag restricting means (140) for restricting the deployment of the airbag (121) toward the rider's head in the early stage of the deployment of the airbag (121) in the head-on collision of the motorcycle (100).

2. The airbag system (120) according to Claim 1, wherein
the airbag restricting means (140) restricts the deployment of the airbag (121) toward the rider's head to thereby first deploy a rider-side airbag part (122) of the airbag facing the rider (R) toward the rider's chest to push the rider's chest toward the rear of the motorcycle (100) by the rider-side airbag part (122), thereby raising the upper body of the rider (R), and then to deploy the rider-side airbag part (122) facing the rider (R) toward the rider's head.

3. The airbag system (120) according to Claim 1 or 2, wherein
the airbag (121) is housed in an airbag housing portion (125) in a specified folded state, and protrudes toward the rider restraint region (150) through an airbag opening (125c) on the top of the airbag housing portion (125) to thereby restrain the rider's head by the rider's head restraint portion (122a) deploying toward the rider's head; and
the airbag restricting means (140) is disposed inside the outer shape of the airbag housing portion (125) and on the plane of the airbag opening (125c) and attached to the rider's head restraint portion (122a) with the airbag (121) housed in the airbag housing portion (125) so as to restrict the deployment of the airbag (121) toward the rider's head in the early stage of the deployment of the airbag (121).

4. The airbag system according to any one of Claims 1 to 3, wherein the airbag (121) is housed in an airbag housing portion (125) in a folded state, in which a rider-side airbag part (122) is accordion-pleated such that the pleats are piled in a vertical direction, and a front airbag part (123) is rolled up toward the front of the motorcycle.

5. A motorcycle (100) equipped with an airbag system (120) in which an airbag (121) deploys into a rider restraint region (150) in front of the rider (R) to restrain the rider (R) when supplied with airbag-inflation gas in a head-on collision of the motorcycle (100), wherein
the airbag system (120) is according to any one of Claims 1 to 4.

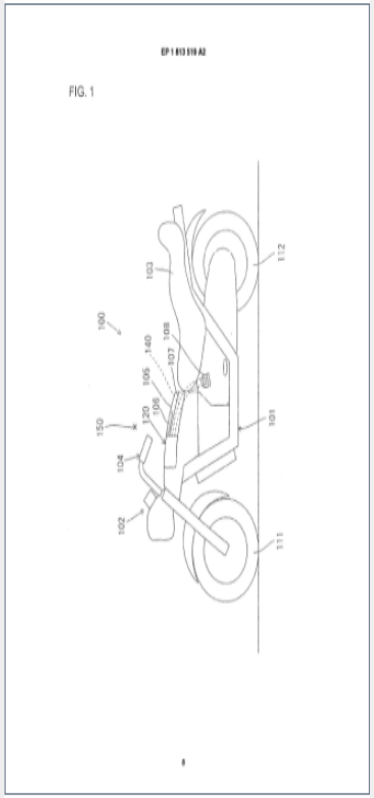

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FIG. 1

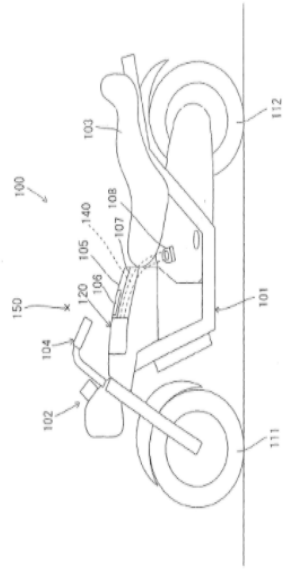

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FIG. 2

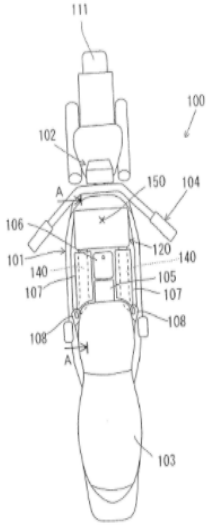

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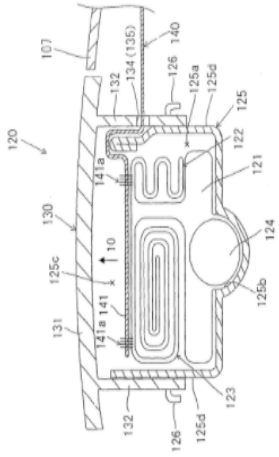
FIG. 3



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☆ EP1813519A2 Motorcycle with airbag system

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(11) **EP 1 813 519 A2**

(12) **EUROPEAN PATENT APPLICATION**

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01.08.2007 Bulletin 2007/31

(51) Int Cl.:
B62J 27/00 *(2006.01)*

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK YU

(30) Priority: **25.01.2006 JP 2006016835**

(71) Applicant: **TAKATA CORPORATION**
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Tokyo 106-8510 (JP)

(72) Inventor: **Miyata, Yasuhito**
Tokyo 106-8510 (JP)

(74) Representative: **Banzer, Hans-Jörg et al**
Kraus & Weisert,
Thomas-Wimmer-Ring 15
80539 München (DE)

(54) **Airbag system and motorcycle with airbag system**

(57) In order to provide a technique effective in im-

Description

[Technical Field]

[0001] The present invention relates to a technique of constructing an airbag system to be mounted to a motorcycle.

[Background Art]

[0002] Various techniques for restraining the rider of a motorcycle with an airbag system mounted to the motorcycle are known. For example, known techniques include a technique of restraining the rider of a motorcycle in the event of a head-on collision by inflating an airbag housed in a case mounted to the body frame (refer to Japanese Unexamined Patent Application Publication No. 2002-137777). The technique presents the possibility of providing a wide restraint area of the airbag. However, for an airbag system to be mounted to a vehicle in which the periphery of the rider is open, such as a motorcycle, there is a great demand for improving the performance of restraining the rider by inflating the airbag in a desired state in the event of a head-on collision.

[Disclosure of the Invention]

[Problems to be Solved by the Invention]

[0006] According to a first aspect of the present invention for solving the problems, an airbag system is provided. The airbag system is to be mounted to a motorcycle, and includes at least an airbag, gas supply means, and airbag restricting means.

[0007] The airbag of the invention is an airbag for restraining a rider, which restrains a rider by deploying toward a rider restraint region in front of the rider in a head-on collision of the motorcycle.

[0008] The gas supply means of the invention supplies airbag-inflation gas to the airbag so as to deploy the airbag toward the rider restraint region in front of the rider in a head-on collision of the motorcycle. Typically, the gas supply means of the invention has the mechanism of generating airbag-inflation gas when sensing the head-on collision of the motorcycle and guiding the airbag-inflation gas into the airbag. The "head-on collision" here broadly includes collisions with a running or still object in front of the motorcycle, for example, another vehicle, a pedestrian, or an obstacle. The "rider restraint region" here is defined as a space extending in the direction of the forward movement of a rider, for restraining the rider who is flung ahead of the motorcycle by a kinetic energy during a head-on collision.

[0009] It is desirable for the airbag system of this type to be mounted to a motorcycle that the airbag not only inflates to the rider restraint region in front of the rider but

24. EP1813519A2 Motorcycle with airbag system

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Cited documents | EP1813519A2 | Citing documents

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Citation origin	Publication	Title	Earliest priority date	Publication date	Applicants	IPC	CPC
APP	JP2002137777A	SADDLE TYPE AIRBAG DEVICE FOR VEHICLE	2000-11-01	2002-05-14	TOYODA GOSEI KK	B60R21/16, B62J27/00	
SEA	EP1375323A2	Airbag apparatus, motorcycle with airbag apparatus, and method of manufacturing airbag apparatus	2002-06-27	2004-01-02	TAKATA CORP [JP]	B62J27/00, B60R21/16	B62J27/20 (EP,US)
SEA	US2005040628A1	Airbag apparatus, motorbike with airbag apparatus	2003-08-22	2005-02-24	TAKATA CORP [US], TAKATA CORP [JP]	B60R21/16, B62J27/00, B60R21/233	B60R21/2338 (EP,US), B62J27/20 (EP,US), B60R2021/23386 (EP,US), B62K2202/00 (EP,US)
SEA	US2004256848A1	Airbag apparatus, motorcycle equipped with airbag apparatus and manufacturing method of airbag apparatus	2003-06-19	2004-12-23	TAKATA CORP [US], TAKATA CORP [JP]	B60R21/16, B60R21/233, B62J27/00, B60R21/00, B60R21/235, B60R21/237	B60R21/233 (EP,US), B60R21/2338 (EP,US), B62J27/20 (EP,US), B60R2021/0088 (EP,US), B60R2021/23382 (EP,US), B60R2021/23538 (EP,US), B60R21/237 (EP,US)
SEA	US2004207189A1	Airbag device and motorcycle with the airbag device	2003-04-16	2004-10-21	TAKATA CORP [US], TAKATA CORP [JP]	B60R21/16, B62J27/00, B60R21/00, B60R21/233, B60R21/239	B60R21/16 (EP,US), B60R21/2338 (EP,US), B62J27/20 (EP,US), B60R2021/0088 (EP,US), B60R2021/23382 (EP,US), B60R2021/23386 (EP,US), B60R21/239 (EP,US), B62K2202/00 (EP,US)

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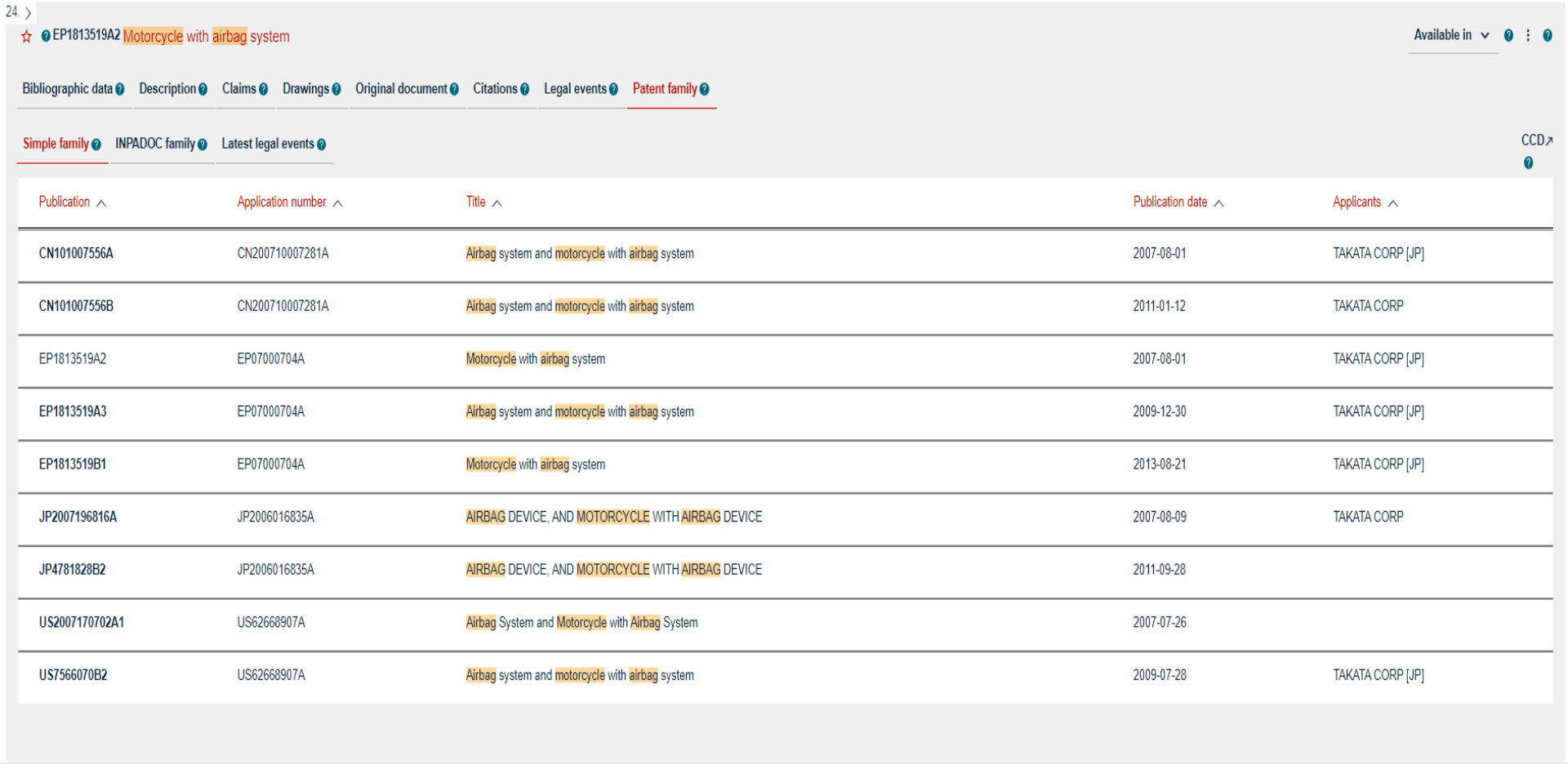
Event indicator	Category	Event description	Countries	Event date	Effective date	Details
EP PUAI	Q: Document publication	PUBLIC REFERENCE MADE UNDER ARTICLE 153(3) EPC TO A PUBLISHED INTERNATIONAL APPLICATION THAT HAS ENTERED THE EUROPEAN PHASE		2007-06-29		**Further information** ORIGINAL CODE: 0009012
EP AK	W: Other	DESIGNATED CONTRACTING STATES	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR	2007-08-01		**Reference document** Kind: A2
EP AX	W: Other	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	AL BA HR MK YU	2007-08-01		
EP PUAL	D: Search and examination	SEARCH REPORT DESPATCHED		2009-11-27		**Further information** ORIGINAL CODE: 0009013
EP AK	W: Other	DESIGNATED CONTRACTING STATES	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR	2009-12-30		**Reference document** Kind: A3
EP AX	W: Other	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	AL BA HR MK RS	2009-12-30		
EP RIC1	Y: Correction/deletion of event information	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT		2009-12-30		**Classification details** IPC B62J 27/00 20060101AFI20070509BHEP
EP RIC1	Y: Correction/deletion of event information	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT		2009-12-30		**Classification details** IPC B60R 21/233 20060101ALI20091125BHEP
EP 17P	D: Search and examination	REQUEST FOR EXAMINATION FILED		2010-03-24	2010-02-08	



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Publication	Application number	Title	Publication date	Applicants
CN101007556A	CN200710007281A	Airbag system and motorcycle with airbag system	2007-08-01	TAKATA CORP [JP]
CN101007556B	CN200710007281A	Airbag system and motorcycle with airbag system	2011-01-12	TAKATA CORP
EP1813519A2	EP07000704A	Motorcycle with airbag system	2007-08-01	TAKATA CORP [JP]
EP1813519A3	EP07000704A	Airbag system and motorcycle with airbag system	2009-12-30	TAKATA CORP [JP]
EP1813519B1	EP07000704A	Motorcycle with airbag system	2013-08-21	TAKATA CORP [JP]
JP2007196816A	JP2006016835A	AIRBAG DEVICE, AND MOTORCYCLE WITH AIRBAG DEVICE	2007-08-09	TAKATA CORP
JP4781828B2	JP2006016835A	AIRBAG DEVICE, AND MOTORCYCLE WITH AIRBAG DEVICE	2011-09-28	
US2007170702A1	US62668907A	Airbag System and Motorcycle with Airbag System	2007-07-26	
US7566070B2	US62668907A	Airbag system and motorcycle with airbag system	2009-07-28	TAKATA CORP [JP]

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Date	Document type	Number of pages
25.06.2014	Communication regarding the expiry of opposition period	1
23.08.2013	Transmission of the certificate for a European patent pursuant to F	1
25.07.2013	Decision to grant a European patent	2
09.07.2013	Filing of the translations of the claims	1
09.07.2013	French translation of claims	2
09.07.2013	German translation of the claims	2
09.07.2013	Payment of fees and costs	1
19.03.2013	Bibliographic data of the European patent application	1
19.03.2013	Communication about intention to grant a European patent	5
19.03.2013	Intention to grant (signatures)	1
19.03.2013	Text intended for grant	30
05.03.2013	Description	2
05.03.2013	Reply to communication from the Examining Division	1

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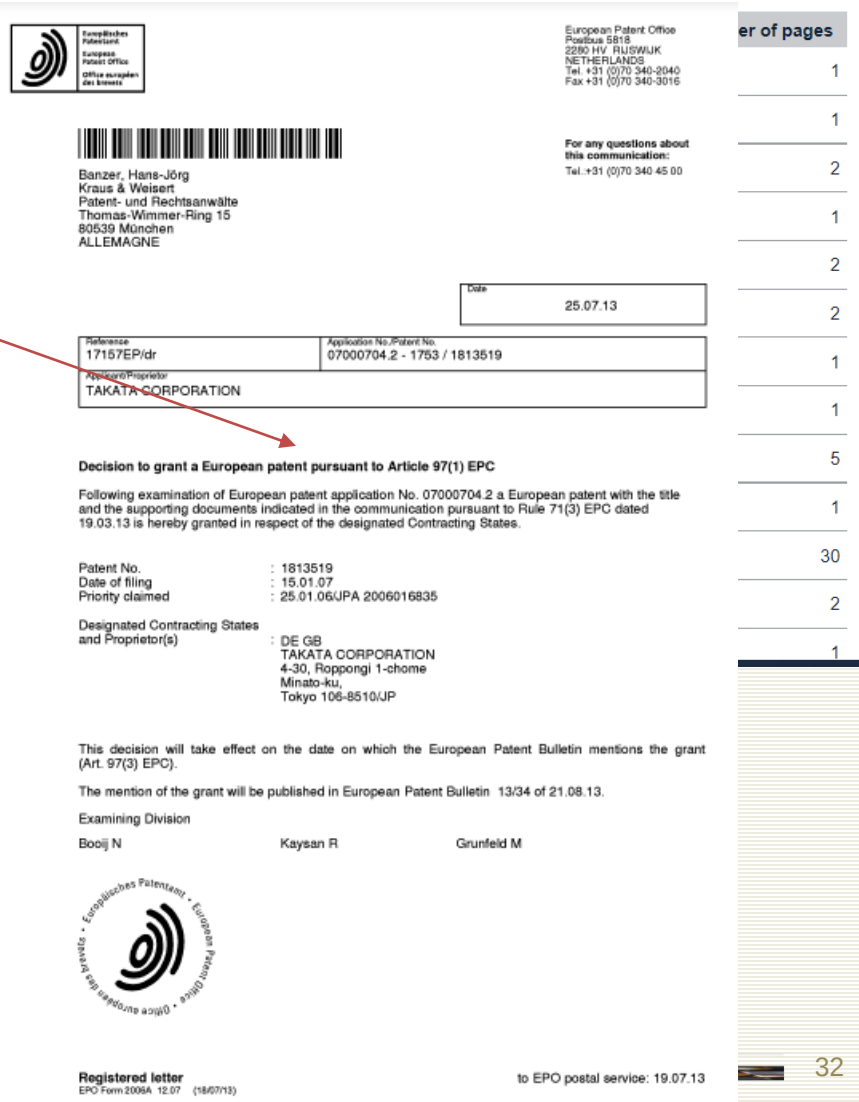

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Banzer, Hans-Jörg
Kraus & Weisert
Patent- und Rechtsanwälte
Thomas-Wimmer-Ring 15
80539 München
ALLEMAGNE

Date: 25.07.13

Reference: 17157EP/dr
Application No./Patent No.: 07000704.2 - 1753 / 1813519
Applicant/Proprietor: TAKATA CORPORATION

Decision to grant a European patent pursuant to Article 97(1) EPC

Following examination of European patent application No. 07000704.2 a European patent with the title and the supporting documents indicated in the communication pursuant to Rule 71(3) EPC dated 19.03.13 is hereby granted in respect of the designated Contracting States.

Patent No. : 1813519
Date of filing : 15.01.07
Priority claimed : 25.01.06/JPA 2006016835

Designated Contracting States and Proprietor(s) : DE GB
TAKATA CORPORATION
4-30, Roppongi 1-chome
Minato-ku,
Tokyo 106-8510/JP

This decision will take effect on the date on which the European Patent Bulletin mentions the grant (Art. 97(3) EPC).

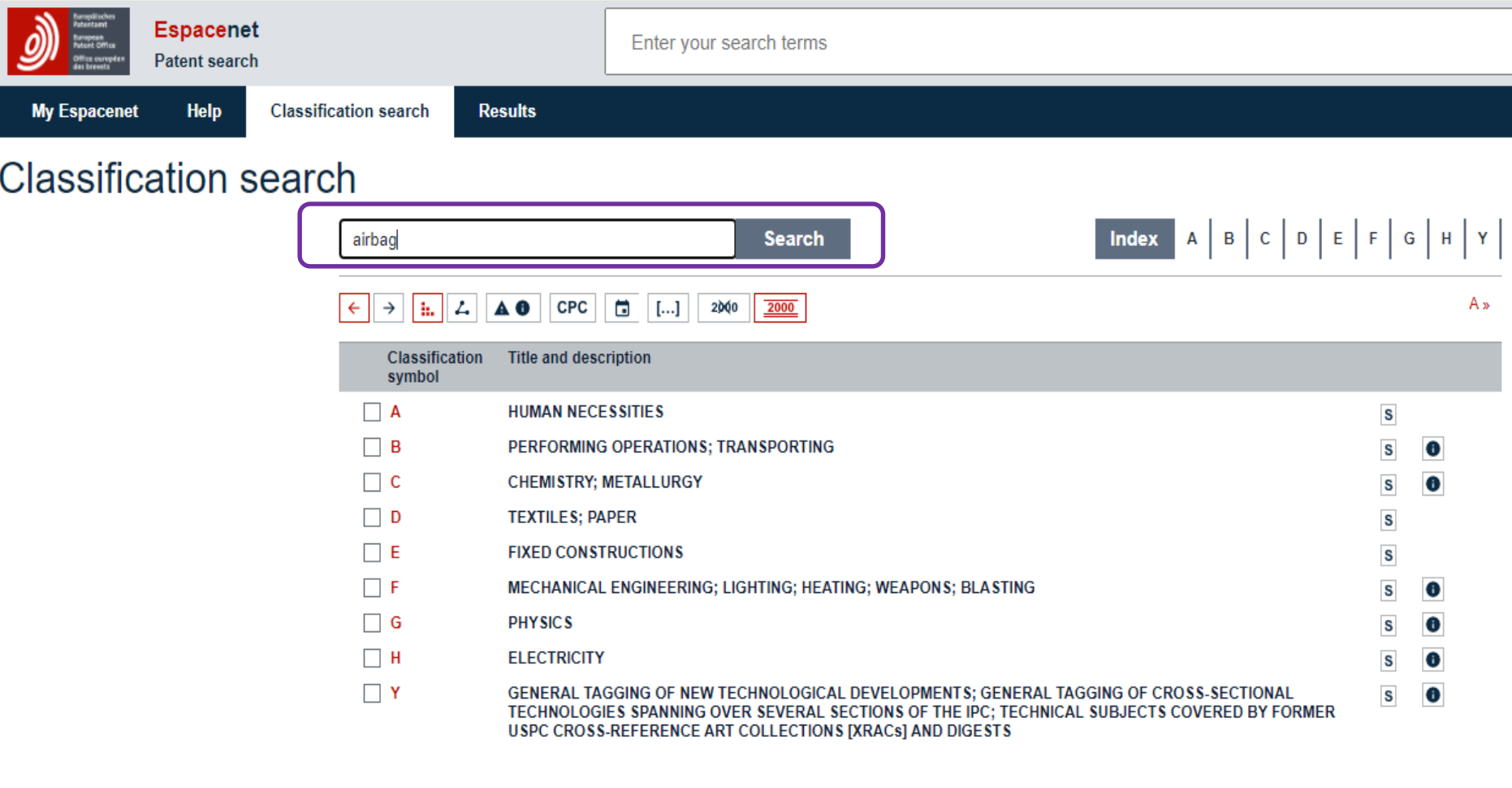
The mention of the grant will be published in European Patent Bulletin 13/34 of 21.08.13.

Examining Division

Booij N Kaysan R Grunfeld M

Registered letter
EPO Form 2006A 12.07 (18/07/13)

to EPO postal service: 19.07.13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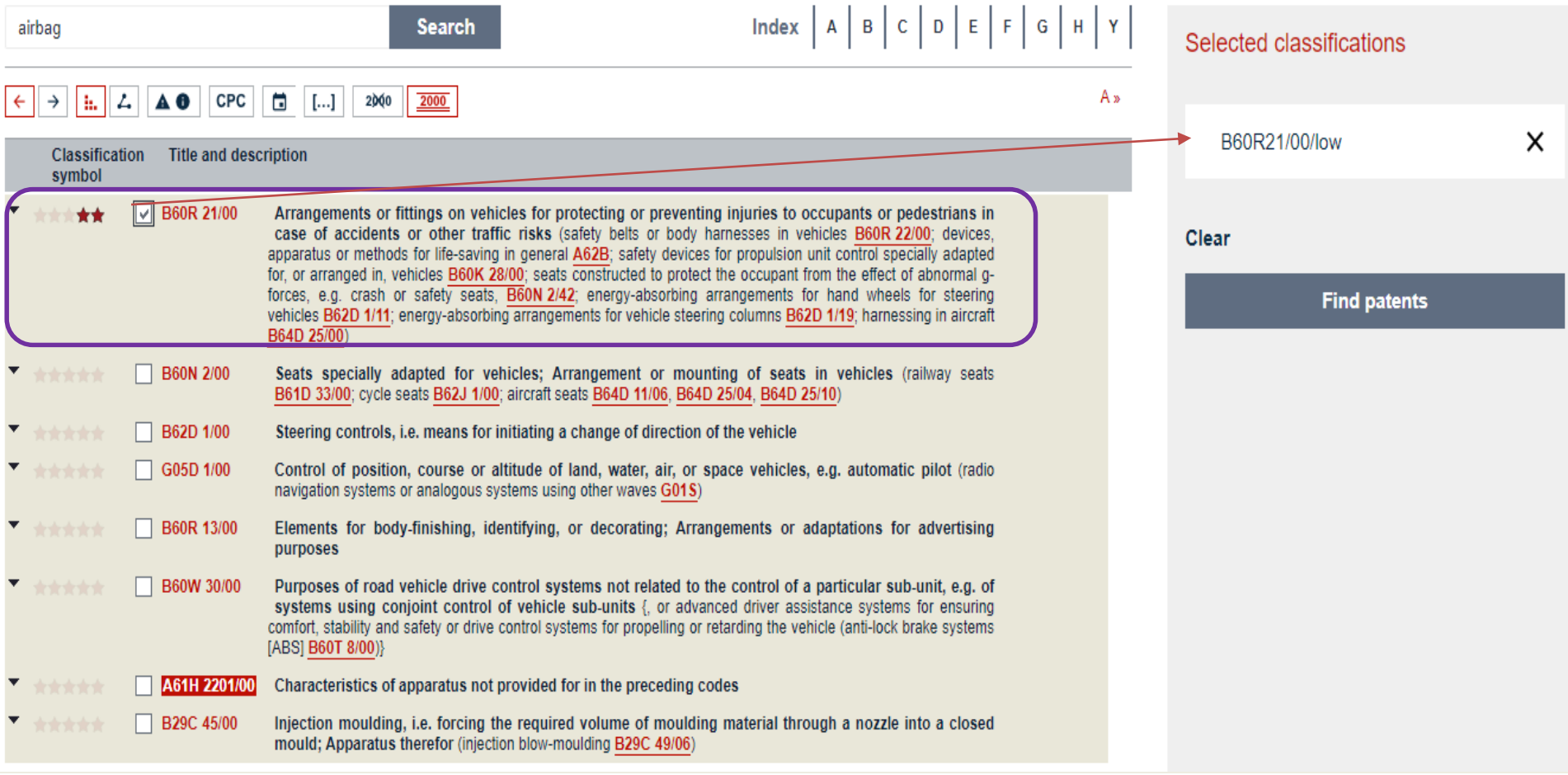
airbag
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Title and description
B60R 21/00
Arrangements or fittings on vehicles for protecting or preventing injuries to occupants or pedestrians in case of accidents or other traffic risks (safety belts or body harnesses in vehicles B60R 22/00; devices, apparatus or methods for life-saving in general A62B; safety devices for propulsion unit control specially adapted for, or arranged in, vehicles B60K 28/00; seats constructed to protect the occupant from the effect of abnormal g-forces, e.g. crash or safety seats, B60N 2/42; energy-absorbing arrangements for hand wheels for steering vehicles B62D 1/11; energy-absorbing arrangements for vehicle steering columns B62D 1/19; harnessing in aircraft B64D 25/00)
B60N 2/00
Seats specially adapted for vehicles; Arrangement or mounting of seats in vehicles (railway seats B61D 33/00; cycle seats B62J 1/00; aircraft seats B64D 11/06, B64D 25/04, B64D 25/10)
B62D 1/00
Steering controls, i.e. means for initiating a change of direction of the vehicle
G05D 1/00
Control of position, course or altitude of land, water, air, or space vehicles, e.g. automatic pilot (radio navigation systems or analogous systems using other waves G01S)
B60R 13/00
Elements for body-finishing, identifying, or decorating; Arrangements or adaptations for advertising purposes
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)}
A61H 2201/00
Characteristics of apparatus not provided for in the preceding codes
B29C 45/00
Injection moulding, i.e. forcing the required volume of moulding material through a nozzle into a closed mould; Apparatus therefor (injection blow-moulding B29C 49/06)
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1. OVERHEAD AIRBAG ASSEMBLIES

WO2018142382A1 • 2018-08-09 • AUTOLIV ASP INC [US]…

Earliest priority: 2017-02-03 • Earliest publication: 2018-08-09

of the Disclosure Airbag assemblies including a housing assembly to be mounted above a vehicle occupant position, an inflator, and an inflatable cushion are provided. The inflatable cushion can include first and second

2. Inflator system

US2007228703A1 (B2) • 2007-10-04 • AUTOMOTIVE TECH INT

Earliest priority: 1991-07-09 • Earliest publication: 2007-10-04

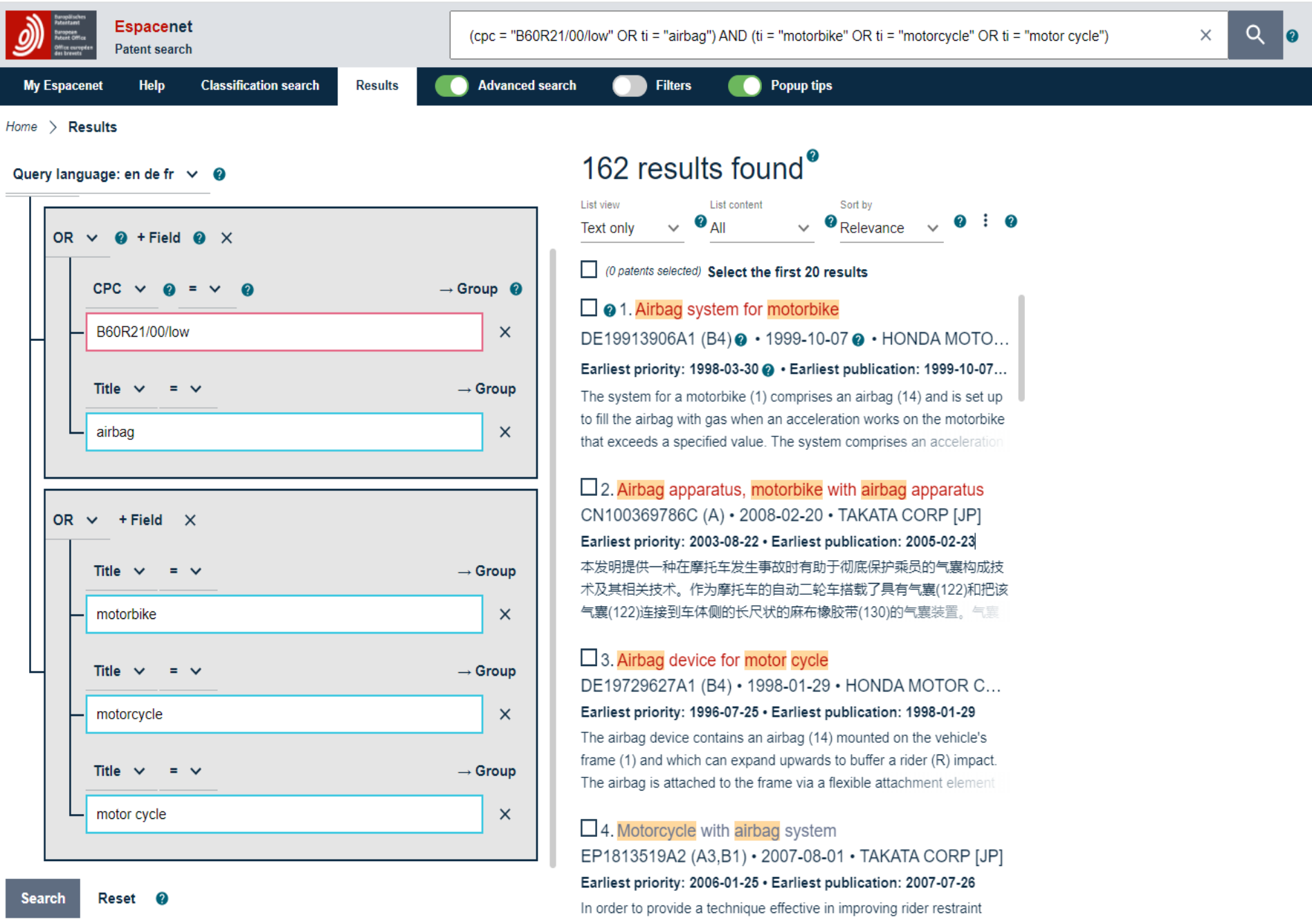
Method for inflating an airbag in a vehicle to protect an occupant in the event of a crash involving the vehicle in which an inflator having a propellant is arranged in the vehicle, the propellant is ignited after determination of a

3. Temperature-Compensated Airbag Inflator

US2008284145A1 (B2) • 2008-11-20 • AUTOMOTIVE TECH INT…

Earliest priority: 1995-12-12 • Earliest publication: 2008-10-02

Airbag inflator system includes an inflatable airbag, a housing and a gas generating system arranged in the housing for generating gas. The gas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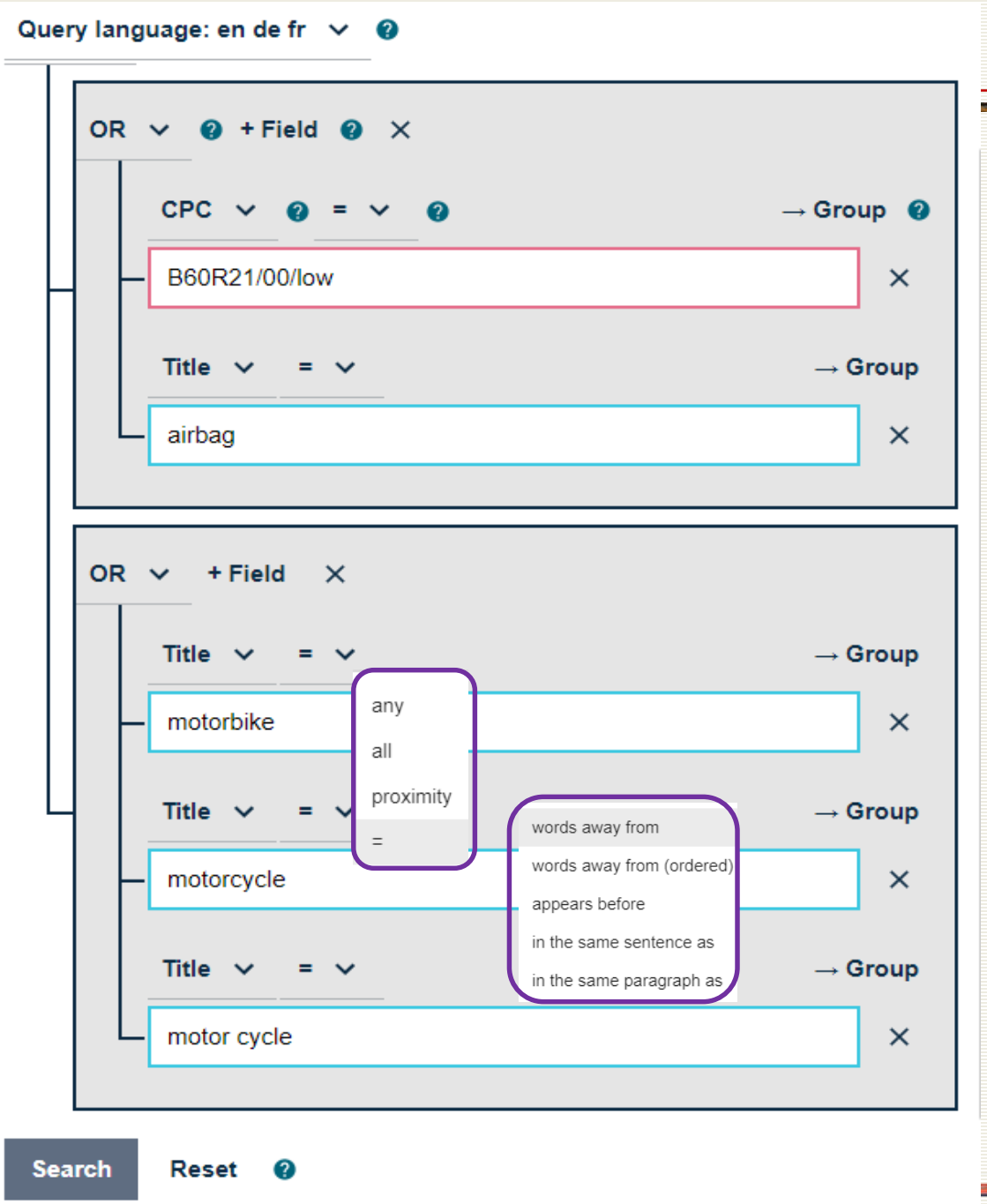
1. Airbag system for motorbike
DE19913906A1 (B4) • 1999-10-07 • HONDA MOTO…
Earliest priority: 1998-03-30 • Earliest publication: 1999-10-07…
The system for a motorbike (1) comprises an airbag (14) and is set up to fill the airbag with gas when an acceleration works on the motorbike that exceeds a specified value. The system comprises an acceleration
2. Airbag apparatus, motorbike with airbag apparatus
CN100369786C (A) • 2008-02-20 • TAKATA CORP [JP]
Earliest priority: 2003-08-22 • Earliest publication: 2005-02-23
本发明提供一种在摩托车发生事故时有助于彻底保护乘员的气囊构成技术及其相关技术。作为摩托车的自动二轮车搭载了具有气囊(122)和把该气囊(122)连接到车体侧的长尺状的麻布橡胶带(130)的气囊装置。气囊
3. Airbag device for motor cycle
DE19729627A1 (B4) • 1998-01-29 • HONDA MOTOR C…
Earliest priority: 1996-07-25 • Earliest publication: 1998-01-29
The airbag device contains an airbag (14) mounted on the vehicle's frame (1) and which can expand upwards to buffer a rider (R) impact. The airbag is attached to the frame via a flexible attachment element
4. Motorcycle with airbag system
EP1813519A2 (A3,B1) • 2007-08-01 • TAKATA CORP [JP]
Earliest priority: 2006-01-25 • Earliest publication: 2007-07-26
In order to provide a technique effective in improving rider restraint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WO2021140922A1 MOTORCYCLE AIRBAG DEVICE

Patent Translate

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Register ↗ | Global Dossier ↗

Applicants: AUTOLIV DEV [SE]; FUMA MAKOTO [JP]; MURAKAMI SHO [JP]; ISHIGAKI RYOTA [JP]; HABU MASARU [JP] +

Inventors: FUMA MAKOTO [JP]; MURAKAMI SHO [JP]; ISHIGAKI RYOTA [JP]; HABU MASARU [JP] +

Classifications

IPC: ***B60R21/231; B62J27/20;***

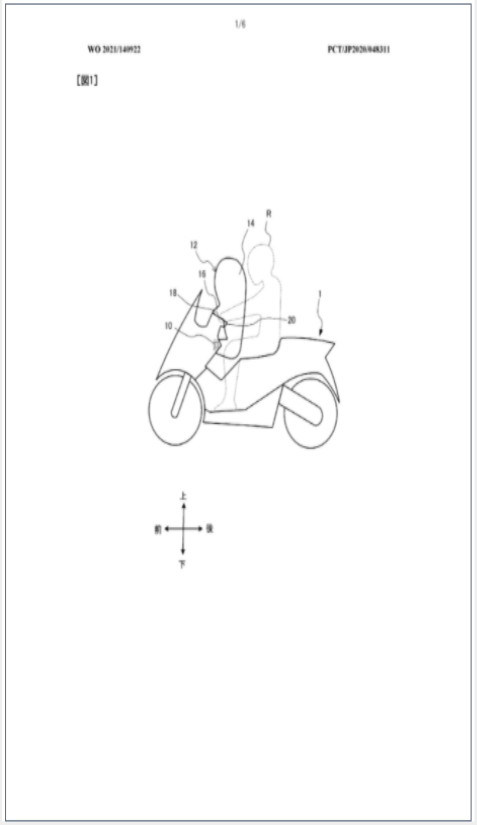
CPC: **B60R21/231 (EP); B62J27/20 (EP);**

Priorities: JP2020003281A·2020-01-11

Application: JP2020048311W·2020-12-23

Publication: WO2021140922A1·2021-07-15

Published as: WO2021140922A1



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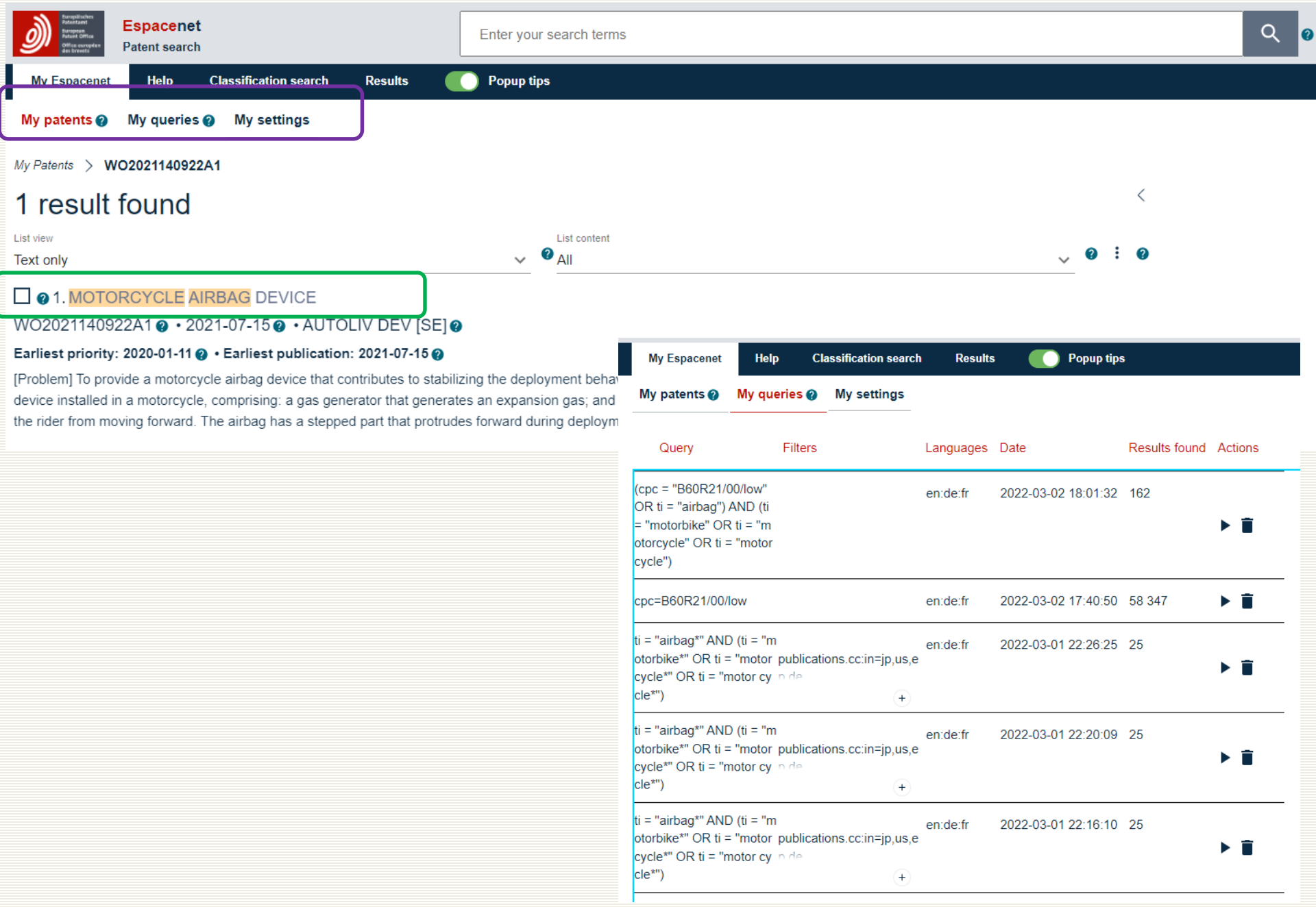
MOTORCYCLE AIRBAG DEVICE

Abstract

[Problem] To provide a motorcycle airbag device that contributes to stabilizing the deployment behavior and deployment attitude of an airbag. [Solution] The present invention is an airbag device installed in a motorcycle, comprising: a gas generator that generates an expansion gas; and an airbag that is inflated by the expansion gas and deploys in front of a rider to restrain the rider from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1. MOTORCYCLE AIRBAG DEVICE
WO2021140922A1 • 2021-07-15 • AUTOLIV DEV [SE]
Earliest priority: 2020-01-11 • Earliest publication: 2021-07-15
[Problem] To provide a motorcycle airbag device that contributes to stabilizing the deployment beha
device installed in a motorcycle, comprising: a gas generator that generates an expansion gas; and
the rider from moving forward. The airbag has a stepped part that protrudes forward during deploym
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ti = "airbag*" AND (ti = "motorbike*" OR ti = "motorcycle*" OR ti = "motor cycle*")
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- What happens if I click the ST36 button?
- What kind of information can be found if I click on the "Show history" button?
- What kind of information can be found under "Status"?
- What do the digits in square brackets refer to?
- What does N/P stand for?
- What does the letter in square brackets stand for in the "Documents cited" part?
- Is it possible to navigate in the result list?
- What kind of information can be found under "Lapses during opposition"?
- What are validation states?
- What are extension states?
- What does "RE Reissue of A/B-publication/specification" in the Publication field mean?

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15.07.2021	FTPAM	-
15.07.2021	Application Body	-
15.07.2021	Notification Concerning Submission Or Transmittal Of Priority Document	-
15.07.2021	International Search Report	-
15.07.2021	Written Opinion of the International Search Authority	-
15.07.2021	RO/101	-
15.07.2021	FTWOS	-
15.07.2021	FTISR	-
15.07.2021	Published International Application	-
15.07.2021	English Translation of the ISR	-
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