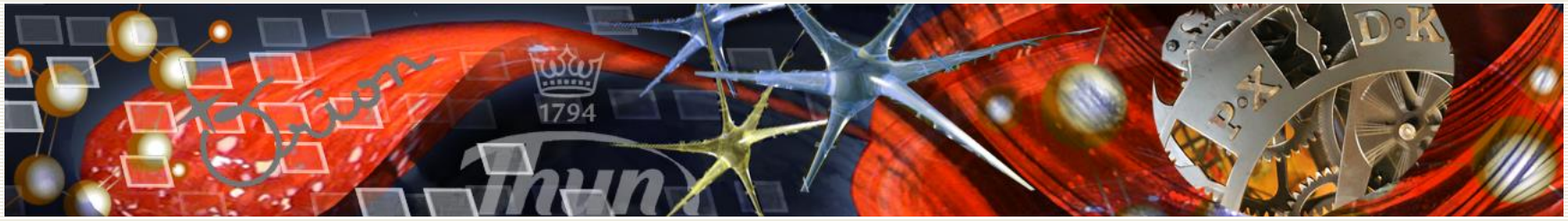
ESPACENET

Hana Churáčková

Praha, 23. 9. 2021



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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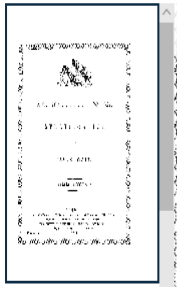


A.D. 1782 . . . . . N° 1321.

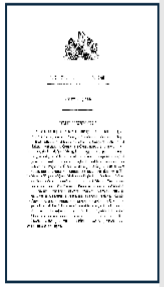
SPECIFICATION

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)

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- Vědci, výzkumní a vývojoví pracovníci, konstruktéři…..
- Podnikatelé, manažeři…..
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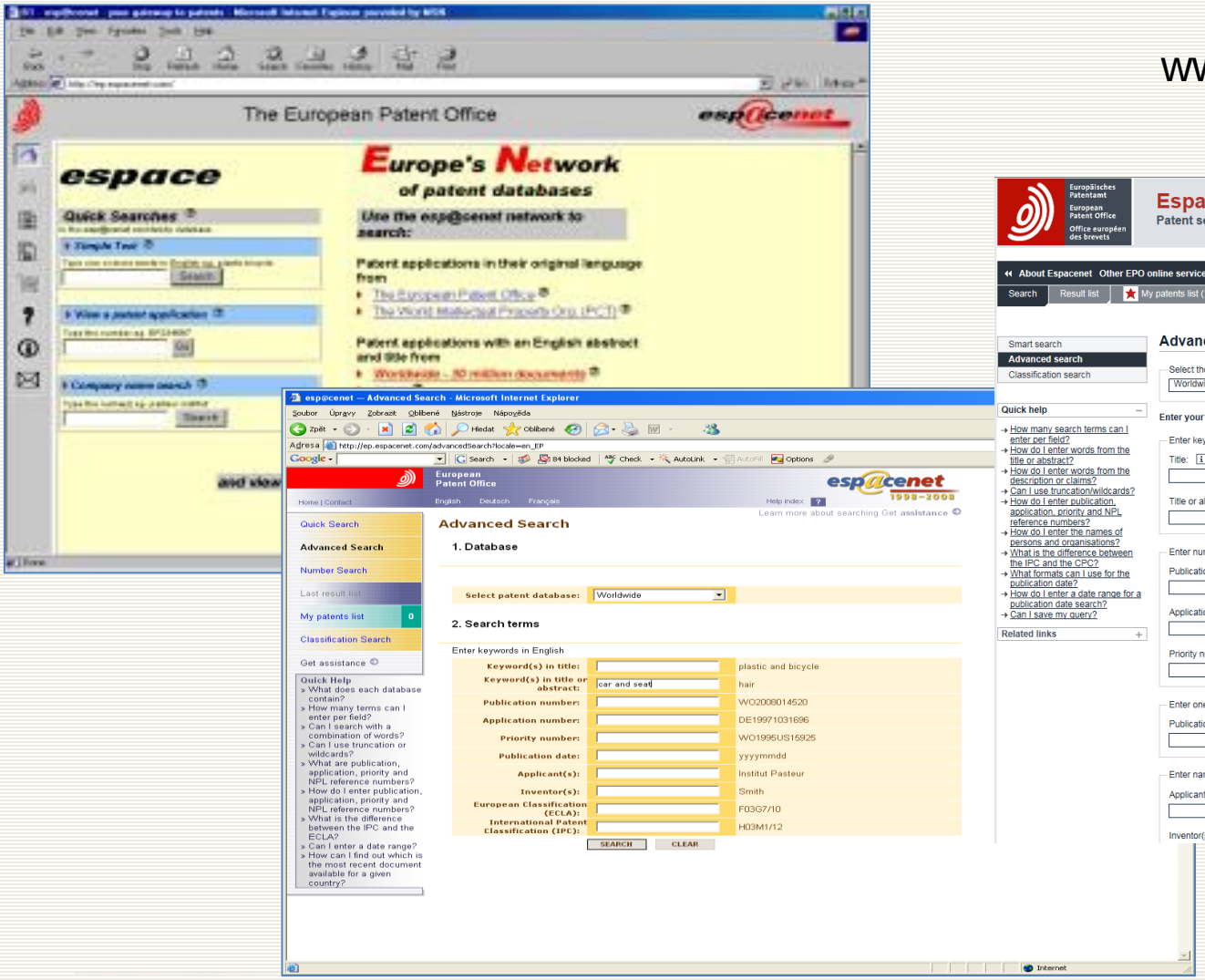

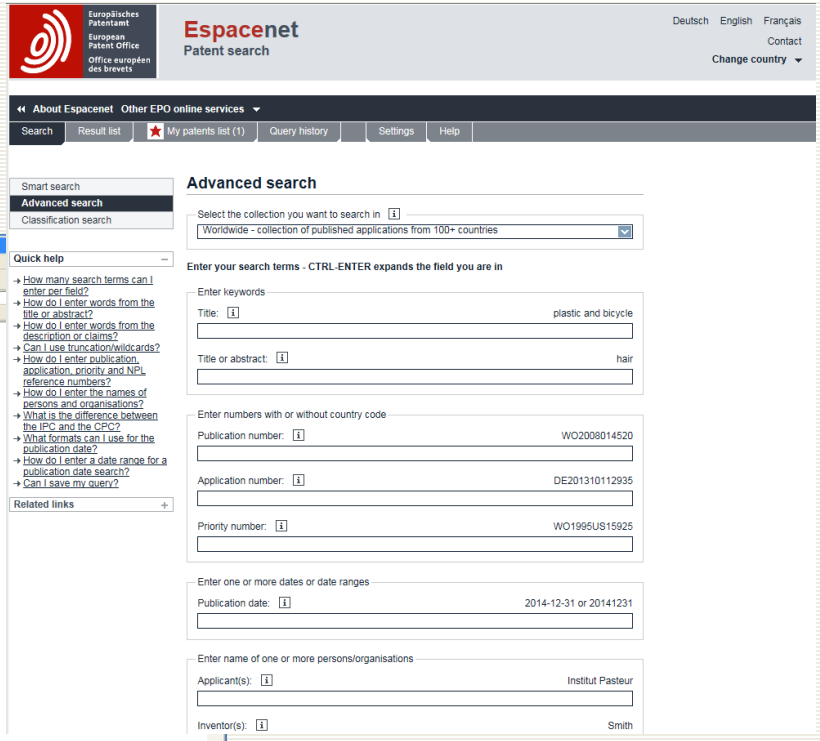

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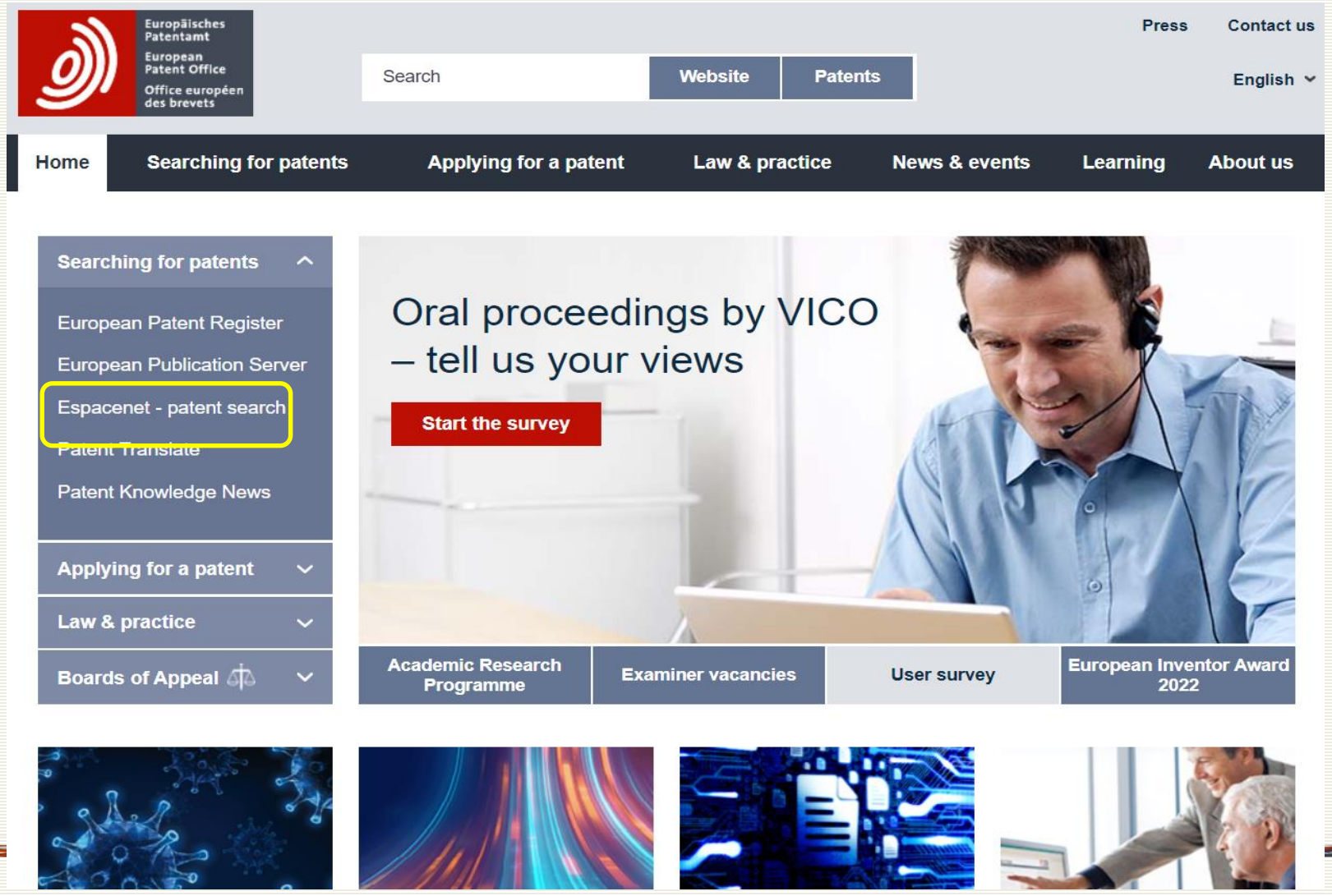

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Smart search field identifiers and Advanced search fields

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

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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airbag* and (motorbike* or motorcycle* or "motor cycle*")

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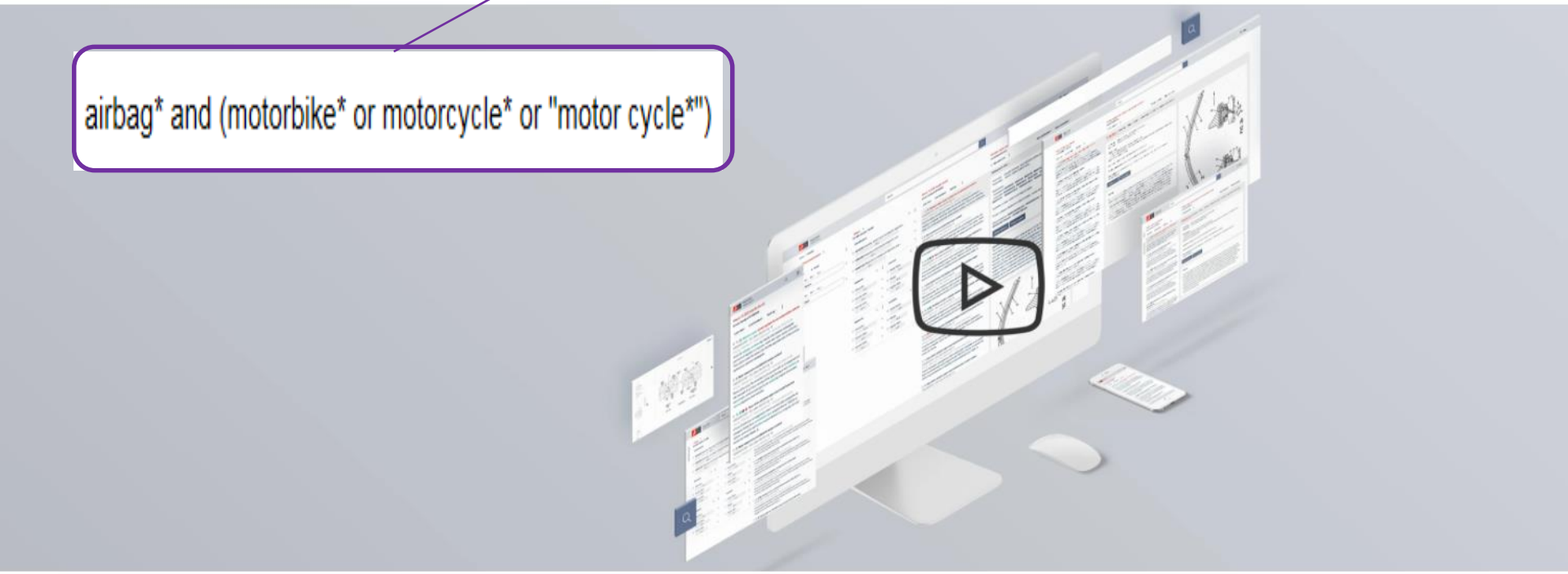

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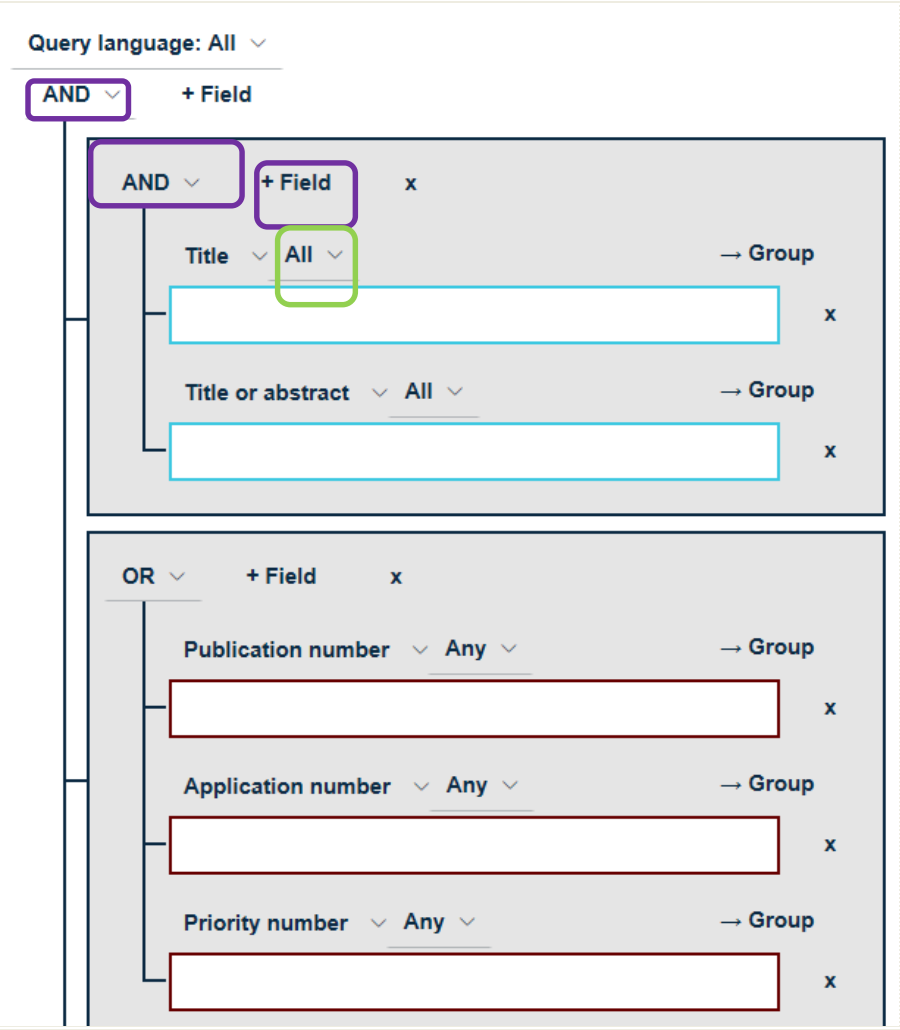
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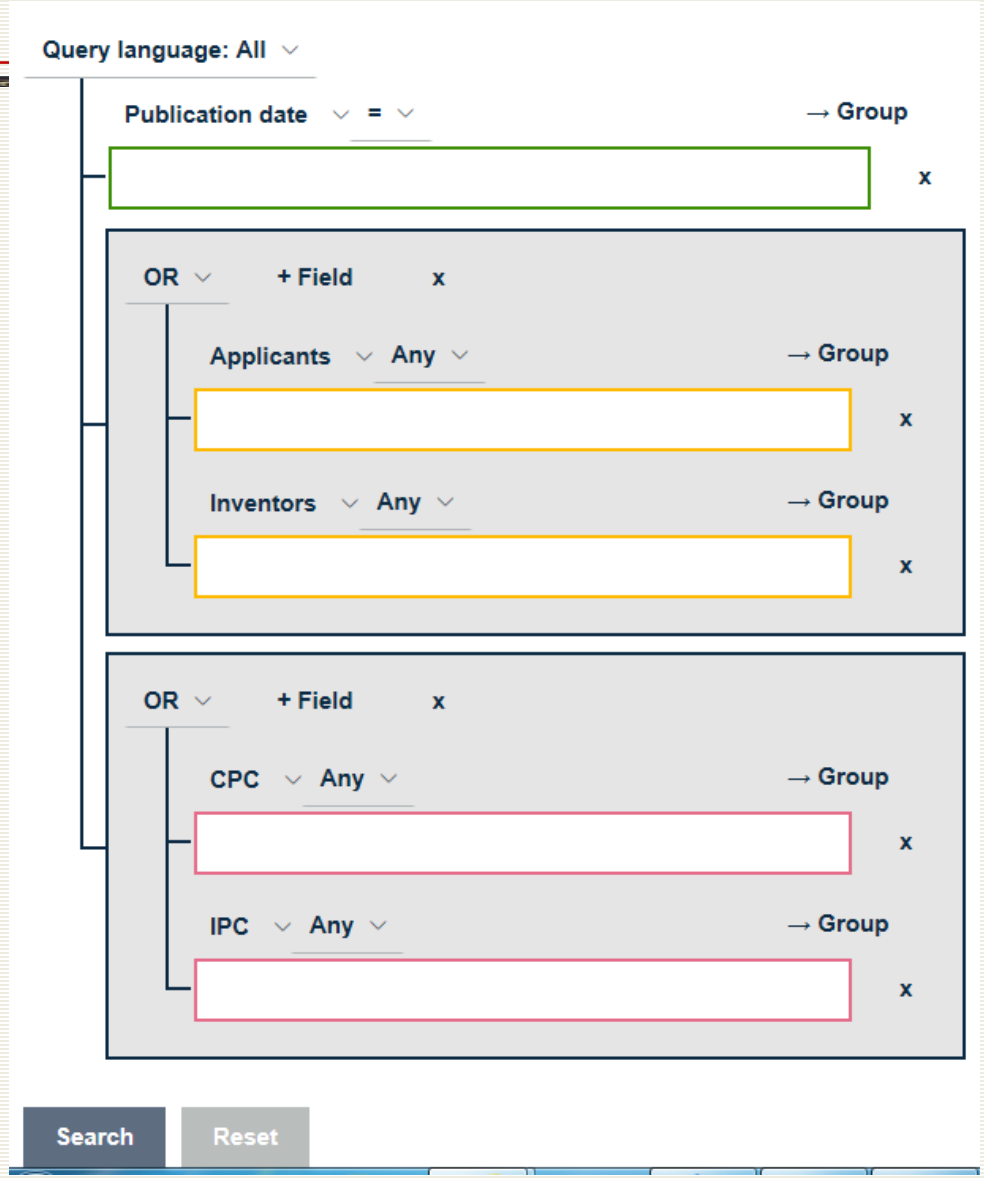
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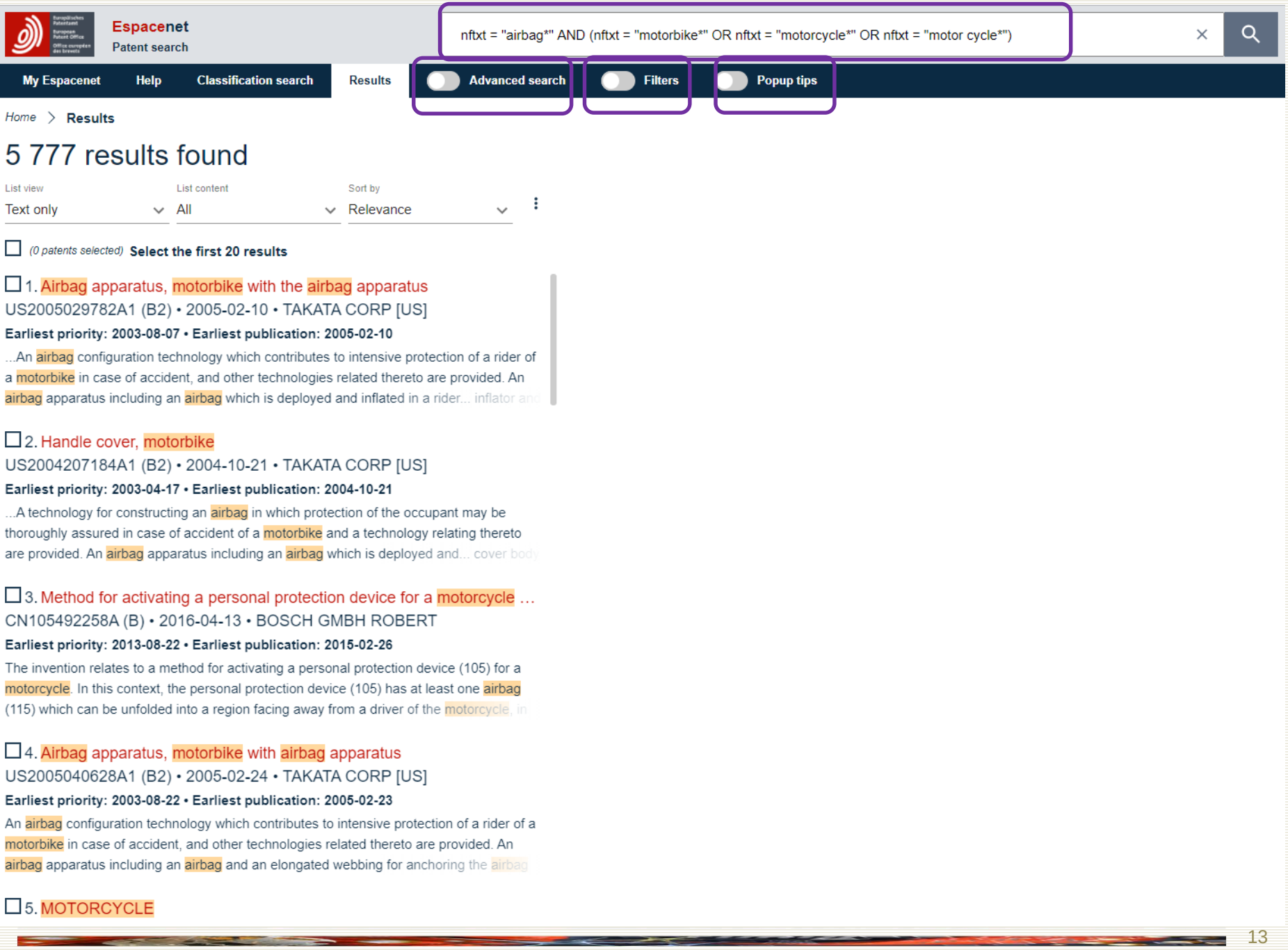
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nftxt = "airbag*" AND (nftxt = "motorbike*" OR nftxt = "motorcycle*" OR nftxt = "motor cycle*")
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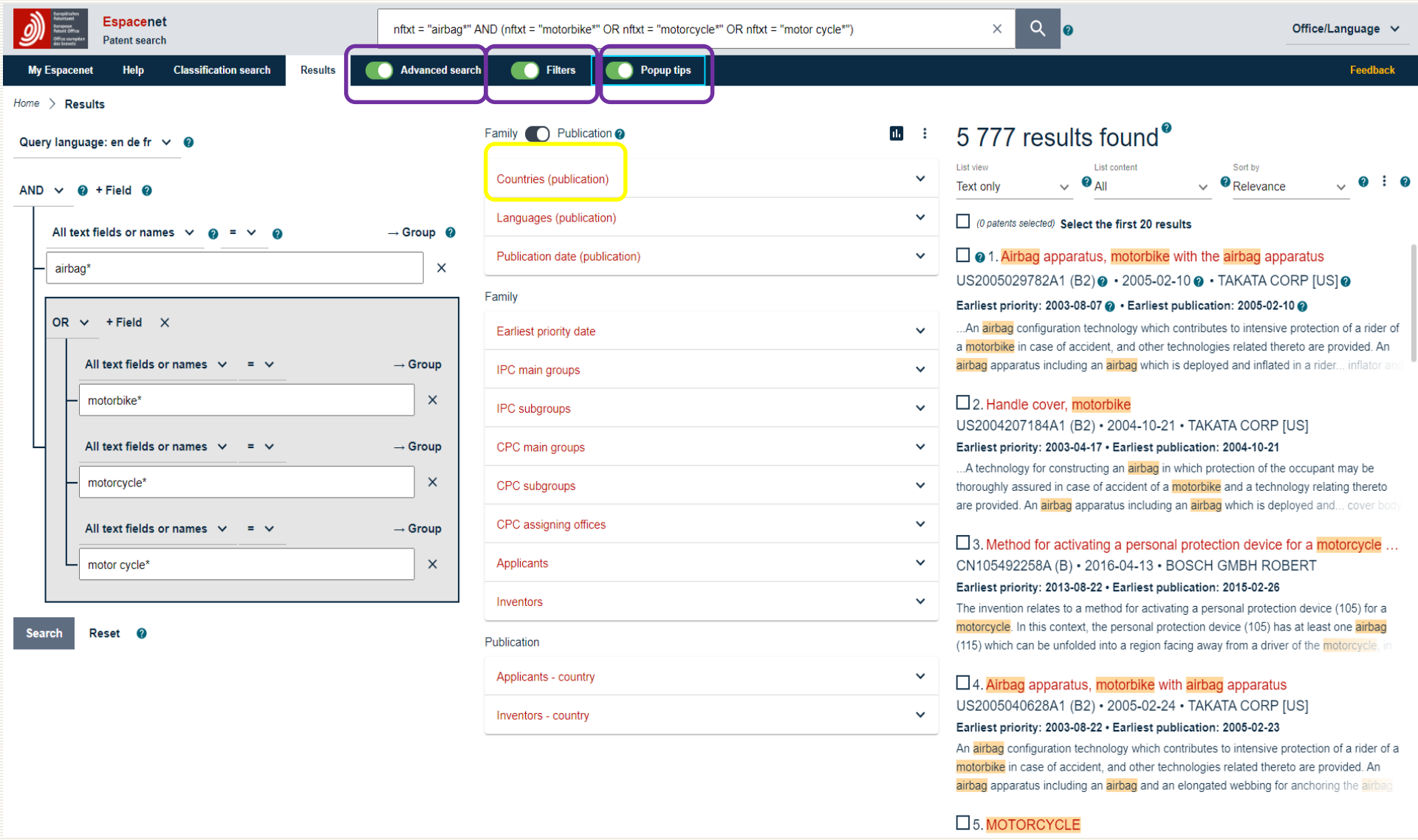
1. Airbag apparatus, motorbike with the airbag apparatus
US2005029782A1 (B2) • 2005-02-10 • TAKATA CORP [US]
Earliest priority: 2003-08-07 • Earliest publication: 2005-02-10
...An airbag configuration technology which contributes to intensive protection of a rider of a motorbike in case of accident, and other technologies related thereto are provided. An airbag apparatus including an airbag which is deployed and inflated in a rider... inflator and
2. Handle cover, motorbike
US2004207184A1 (B2) • 2004-10-21 • TAKATA CORP [US]
Earliest priority: 2003-04-17 • Earliest publication: 2004-10-21
...A technology for constructing an airbag in which protection of the occupant may be thoroughly assured in case of accident of a motorbike and a technology relating thereto are provided. An airbag apparatus including an airbag which is deployed and... cover body
3. Method for activating a personal protection device for a motorcycle ...
CN105492258A (B) • 2016-04-13 • BOSCH GMBH ROBERT
Earliest priority: 2013-08-22 • Earliest publication: 2015-02-26
The invention relates to a method for activating a personal protection device (105) for a motorcycle. In this context, the personal protection device (105) has at least one airbag (115) which can be unfolded into a region facing away from a driver of the motorcycle, in
4. Airbag apparatus, motorbike with airbag apparatus
US2005040628A1 (B2) • 2005-02-24 • TAKATA CORP [US]
Earliest priority: 2003-08-22 • Earliest publication: 2005-02-23
An airbag configuration technology which contributes to intensive protection of a rider of a motorbike in case of accident, and other technologies related thereto are provided. An airbag apparatus including an airbag and an elongated webbing for anchoring the airbag
5. MOTORCYCLE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Earliest priority: 2003-08-07 • Earliest publication: 2005-02-10
...An airbag configuration technology which contributes to intensive protection of a rider of a motorbike in case of accident, and other technologies related thereto are provided. An airbag apparatus including an airbag which is deployed and inflated in a rider... inflator and
2. Handle cover, motorbike
US2004207184A1 (B2) • 2004-10-21 • TAKATA CORP [US]
Earliest priority: 2003-04-17 • Earliest publication: 2004-10-21
...A technology for constructing an airbag in which protection of the occupant may be thoroughly assured in case of accident of a motorbike and a technology relating thereto are provided. An airbag apparatus including an airbag which is deployed and... cover body
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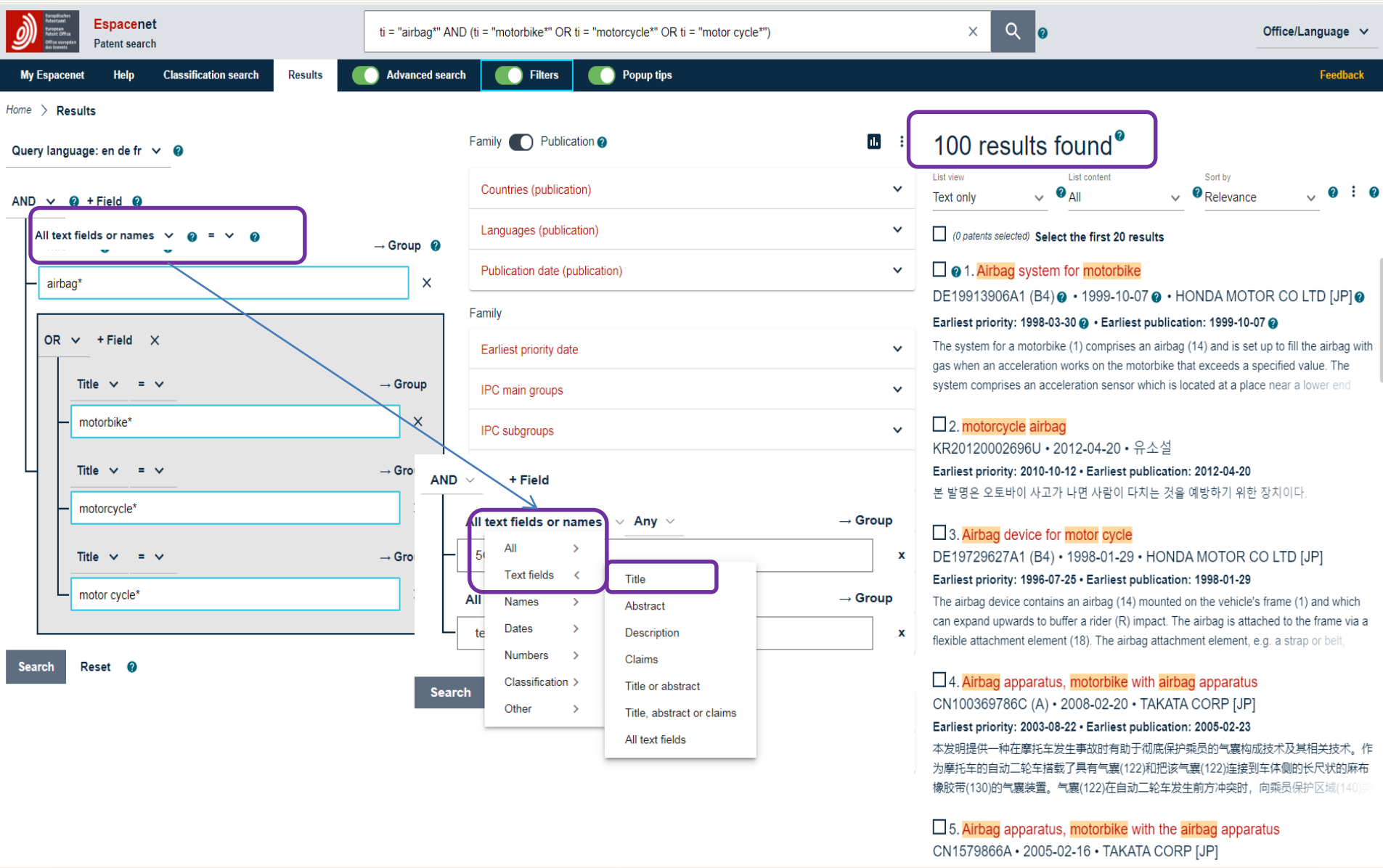
An airbag configuration technology which contributes to intensive protection of a rider of a motorbike in case of accident, and other technologies related thereto are provided. An airbag apparatus including an airbag and an elongated webbing for anchoring the airbag
5. MOTORCYCLE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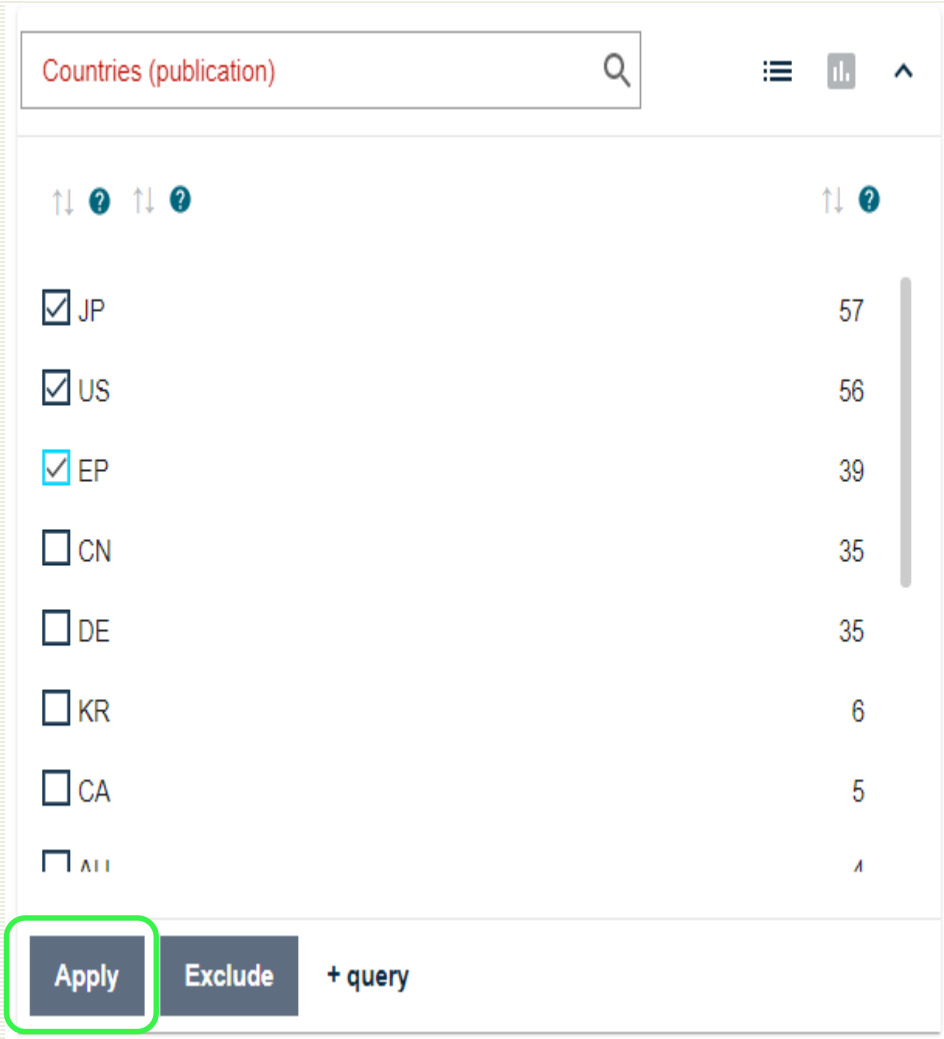
1. Airbag system for motorbike
DE19913906A1 (B4) • 1999-10-07 • HONDA MOTOR CO LTD [JP]
Earliest priority: 1998-03-30 • Earliest publication: 1999-10-07
The system for a motorbike (1) comprises an airbag (14) and is set up to fill the airbag with gas when an acceleration works on the motorbike that exceeds a specified value. The system comprises an acceleration sensor which is located at a place near a lower end
2. motorcycle airbag
KR20120002696U • 2012-04-20 • 유소설
Earliest priority: 2010-10-12 • Earliest publication: 2012-04-20
본 발명은 오토바이 사고가 나면 사람이 다치는 것을 예방하기 위한 장치이다.
3. Airbag device for motor cycle
DE19729627A1 (B4) • 1998-01-29 • HONDA MOTOR CO LTD [JP]
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 (18). The airbag attachment element, e.g. a strap or belt,
4. 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(122)在自动二轮车发生前方冲突时，向乘员保护区域(140)
5. Airbag apparatus, motorbike with the airbag apparatus
CN1579866A • 2005-02-16 • TAKATA CORP [JP]

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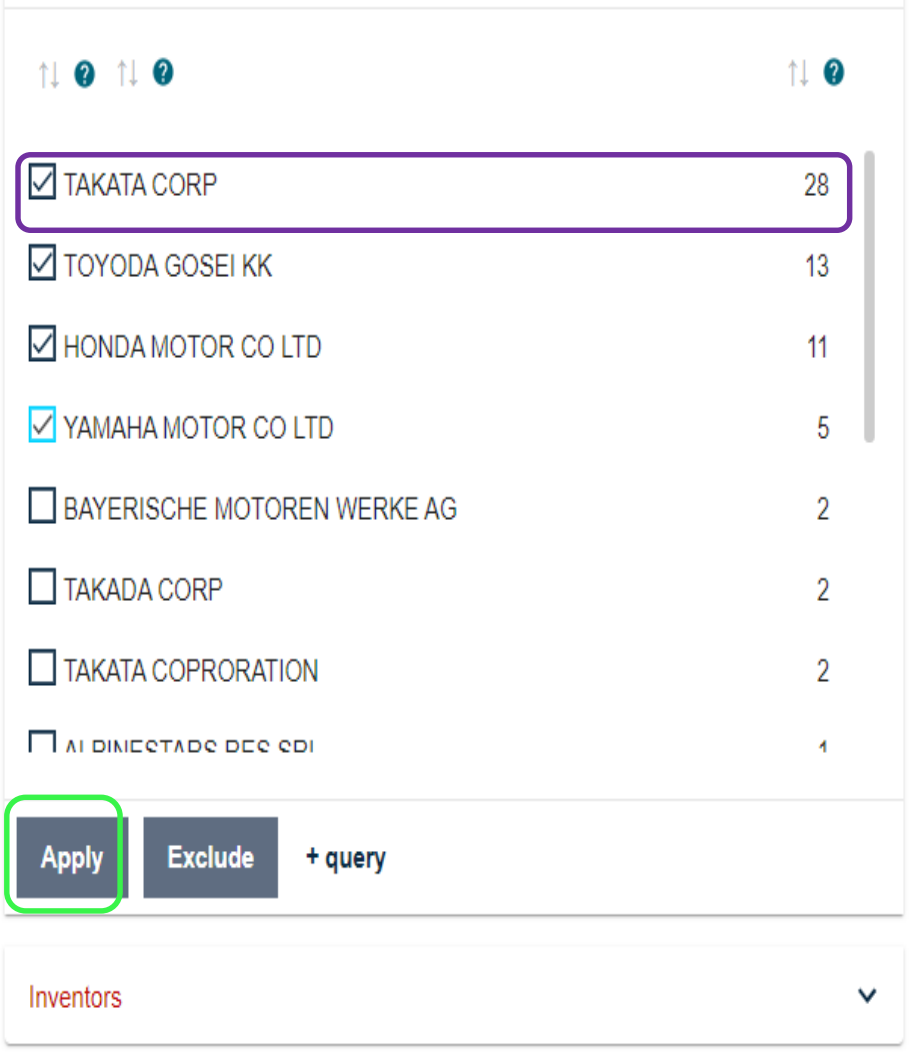
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Inventors

Earliest priority date

From 2000-01-01 To 2016-12-31

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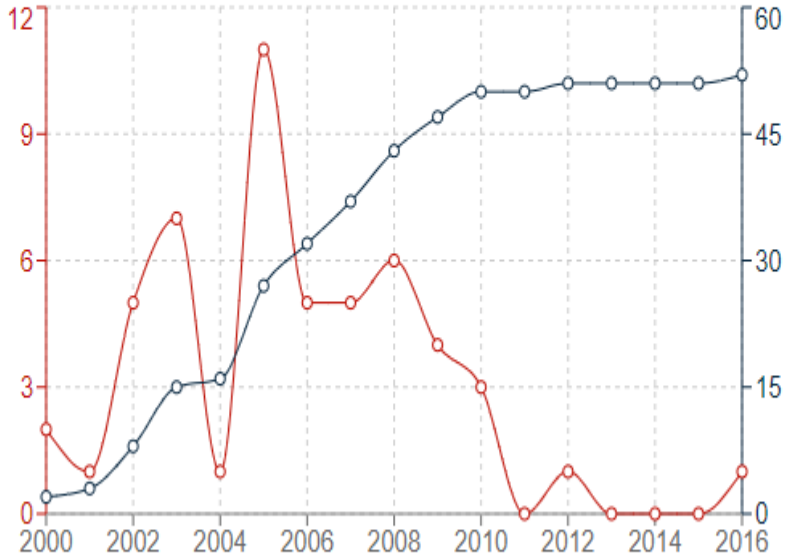

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B62J27	52
B60R21	44
B62K11	15
B62J23	3
B60R22	1
B62J	1
B62J1	1
B62J29	1

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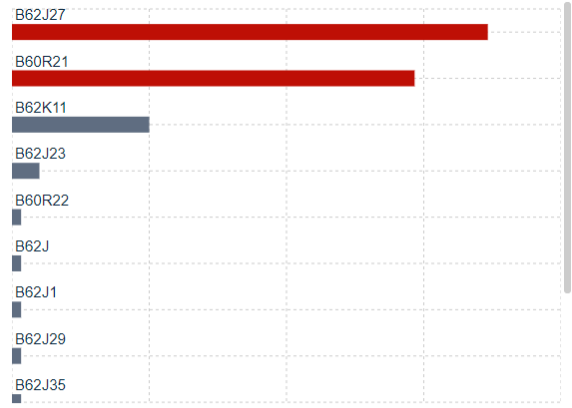

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Query language: en / de / fr **Filters:** Countries (publication): JP OR US OR EP × Applicants: TAKATA CORP OR TOYODA GOSEI KK OR HONDA MOTOR CO LTD OR YAMAHA MOTOR CO LTD × Clear

Family Publication

Countries (publication)

Languages (publication)

Publication date (publication)

Family

Earliest priority date

IPC main groups

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1. Airbag apparatus, motorbike with airbag apparatus
US2005040628A1 (B2) • 2005-02-24 • TAKATA CORP [US]
Earliest priority: 2003-08-22 • Earliest publication: 2005-02-23
An airbag configuration technology which contributes to intensive protection of a rider of a motorbike in case of accident, and other technologies related thereto are provided. An airbag apparatus including an airbag and an elongated webbing for anchoring the airbag

2. Airbag apparatus, motorbike with the airbag apparatus
US2005029782A1 (B2) • 2005-02-10 • TAKATA CORP [US]
Earliest priority: 2003-08-07 • Earliest publication: 2005-02-10
An airbag configuration technology which contributes to intensive protection of a rider of a motorbike in case of accident, and other technologies related thereto are provided. An airbag apparatus including an airbag which is deployed and inflated in a rider protecting

3. MOTORCYCLE AIRBAG MODULE
US2008224456A1 (B2) • 2008-09-18 • HONDA MOTOR CO LTD [JP]
Earliest priority: 2007-03-15 • Earliest publication: 2008-09-18
A motorcycle airbag module includes an inflatable airbag, which is deployed between the rider's seat and the steering handlebar of a motorcycle. First and second recessed portions are formed in the front face of the airbag, when in an inflated and deployed state

4. Motorcycle airbag system and motorcycle
EP1813517A1 (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 restraining performance of an airbag (121) in a motorcycle airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) restricts the deployment of the

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23. Motorcycle airbag system and motorcycle
EP1813517A1 (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 restraining performance of an airbag (121) in a motorcycle airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) restricts the deployment of the

24. Airbag system and motorcycle with airbag system
EP1813518A2 (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 restraining performance of an airbag (121) in a motorcycle airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) is constructed such that the way

25. AIRBAG DEVICE, AND MOTORCYCLE WITH AIRBAG DEVICE
JP2007196816A (B2) • 2007-08-09 • TAKATA CORP
Earliest priority: 2006-01-25 • Earliest publication: 2007-07-26
PROBLEM TO BE SOLVED: To provide a technology capable of effectively enhancing the rider constraining property by an airbag in an airbag device fitted to a motorcycle. SOLUTION: An airbag device 120 fitted to a motorcycle 100 has an airbag regulation

26. AIRBAG DEVICE FOR MOTORCYCLE
JP2007125983A (B2) • 2007-05-24 • TOYODA GOSEI KK
Earliest priority: 2005-11-02 • Earliest publication: 2007-05-24
PROBLEM TO BE SOLVED: To provide an airbag device suitable for a motorcycle. SOLUTION: In the airbag device 10 for motorcycle, an inflated airbag 11 is arranged on a front side of an occupant D seated in a seat 7 when the device is operated, and a

☆ EP1813517A1 Motorcycle airbag system and motorcycle

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Bibliographic data | Description | Claims | Drawings | Original document | Citations | Legal events | Patent family

Register ↗ | Global Dossier ↗

Applicants: TAKATA CORP [JP] +

Inventors: MIYATA YASUHITO [JP] +

Classifications

IPC: ***B60R21/16; B60R21/18; B60R21/2338; B62J27/00;***

CPC: **B62J27/00 (EP);** B60R2021/0088 (EP); B60R2021/23316 (EP);

Priorities: JP2006016838A 2006-01-25

Application: EP07000702A 2007-01-15

Publication: EP1813517A1 2007-08-01

Published as: **CN101007555A; CN101007555B;** EP1813517A1; **EP1813517B1; JP2007196817A; JP4679376B2; US2007170704A1; US7686328B2**

EN | DE | FR

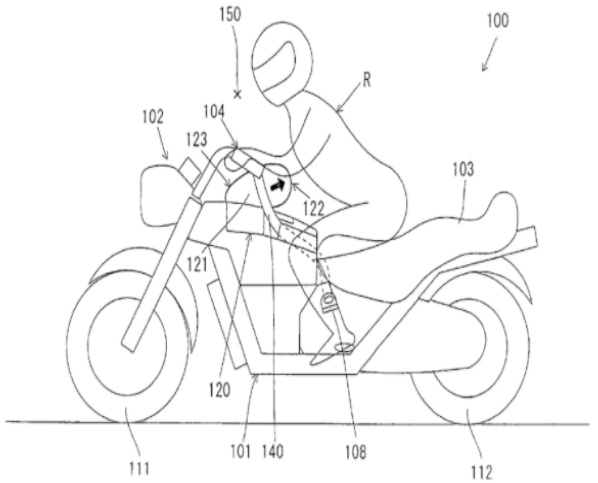
Motorcycle airbag system and motorcycle

Abstract

In order to provide a technique effective in improving rider restraining performance of an airbag (121) in a motorcycle airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100)

Front-page drawing from EP1813517A1

FIG. 6



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23. Motorcycle airbag system and motorcycle
EP1813517A1 (B1) • 2007-08-01 • TAKATA CORP [JP]
Earliest priority: 2006-01-25 • Earliest publication: 2007-07-26

24. Airbag system and motorcycle with airbag system
EP1813518A2 (A3,B1) • 2007-08-01 • TAKATA CORP [JP]
Earliest priority: 2006-01-25 • Earliest publication: 2007-07-26

25. AIRBAG DEVICE, AND MOTORCYCLE WITH AIRBAG DEVICE
JP2007196816A (B2) • 2007-08-09 • TAKATA CORP
Earliest priority: 2006-01-25 • Earliest publication: 2007-07-26

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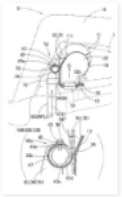
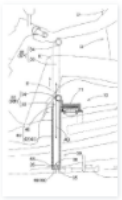


6. AIRBAG DEVICE FOR MOTORCYCLE
JP2011073515A (B2) • 2011-04-14 • TOYODA GOSEI KK
Earliest priority: 2009-09-29 • Earliest publication: 2011-04-14
PROBLEM TO BE SOLVED: To provide an airbag device for motorcycle capable of rapidly pulling up a supporter for supporting an airbag by the airbag. SOLUTION: The airbag device 10 for motorcycle includes an airbag



7. AIRBAG DEVICE FOR MOTORCYCLE
JP2011051423A (B2) • 2011-03-17 • TOYODA GOSEI KK
Earliest priority: 2009-08-31
PROBLEM TO BE SOLVED: consistently and rapidly eleva airbag from the storage posit

8. AIRBAG DEVICE F
JP2011051422A • 2011-
Earliest priority: 2009-08-31
PROBLEM TO BE SOLVED: consistently and rapidly pullir airbag. SOLUTION: The airb

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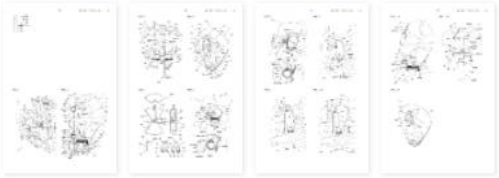
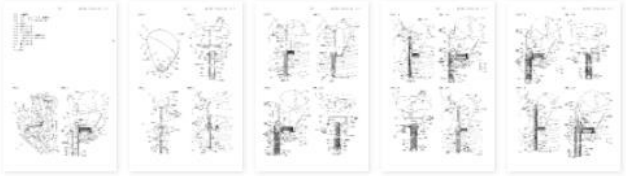
6. AIRBAG DEVICE FOR MOTORCYCLE



7. AIRBAG DEVICE FOR MOTORCYCLE



8. AIRBAG DEVICE FOR MOTORCYCLE

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Classifications

IPC **B60R21/16; B60R21/18; B60R21/2338; B62J27/00;**

CPC **B62J27/00 (EP);** B60R2021/0088 (EP); B60R2021/23316 (EP);

Priorities JP2006016838A 2006-01-25

Application EP07000702A 2007-01-15

Publication EP1813517A1 2007-08-01

Published as **CN101007555A; CN101007555B;** EP1813517A1; **EP1813517B1; JP2007196817A; JP4679376B2; US2007170704A1; US7686328B2**

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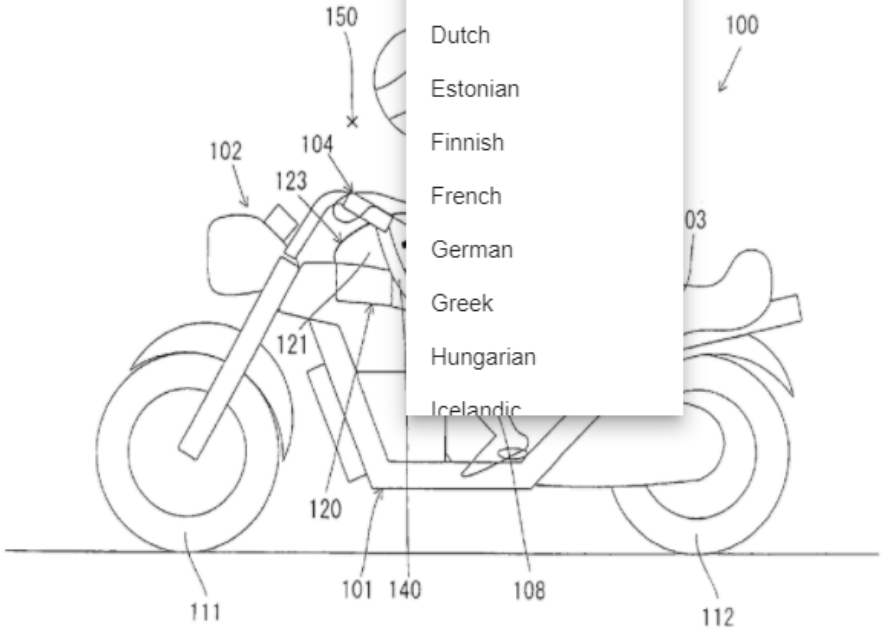
Motorcycle airbag system and motorcycle

Abstract

In order to provide a technique effective in improving rider restraining performance of an airbag (121) in a motorcycle airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) restricts the deployment of the airbag (121) toward the rider's head in an early stage of the inflation of the airbag (121) in the event of a head-on collision of the motorcycle (100) using a webbing (140) that tethers the airbag (121) to the motorcycle (100).

Front-page drawing from EP1813517A1

FIG. 6



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Oznámení

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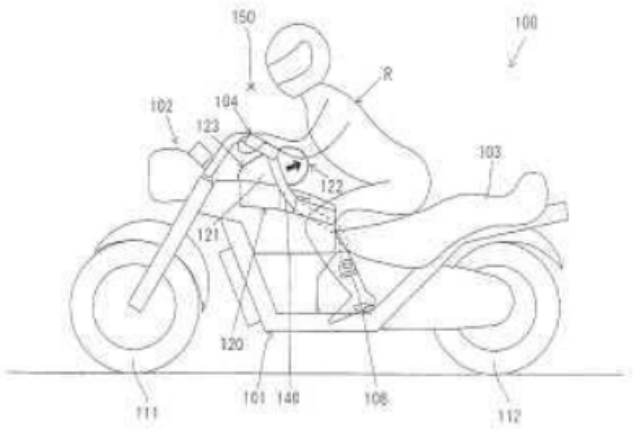
ANOTACE EP1813517A1

[0001]

Aby se zajistila technika účinná při zlepšování zadržovacích schopností airbagu (121) řidiče v systému (120) airbagu motocyklu, který má být namontován na motocykl (100), systém airbagu (120), který má být namontován na motocykl (100)) omezuje rozvinutí airbagu (121) směrem k hlavě jezdce v rané fázi nafouknutí airbagu (121) v případě čelní srážky motocyklu (100) pomocí popruhu (140), který se napíná airbag (121) k motocyklu (100).

FIG. 6



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☆ EP1813517A1 Motorcycle airbag system and motorcycle

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IPC **B60R21/16; B60R21/18; B60R21/2338; B62J27/00;**

CPC **B62J27/00 (EP);** B60R2021/0088 (EP); B60R2021/23316 (EP);

Priorities JP2006016838A 2006-01-25

Application EP07000702A 2007-01-15

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EN DE FR

Motorcycle airbag system and motorcycle

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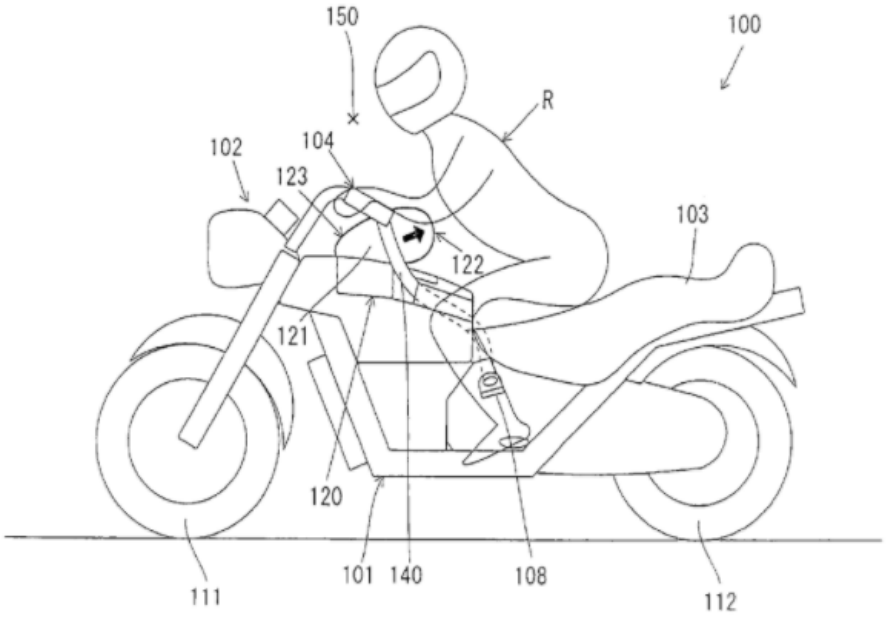
In order to provide a technique effective in improving rider restraining performance of an airbag (121) in a motorcycle airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) restricts the deployment of the airbag (121) toward the rider's head in an early stage of the inflation of the airbag (121) in the event of a head-on collision of the motorcycle (100) using a webbing (140) that tethers the airbag (121) to the motorcycle (100).

Front-page drawing from EP1813517A1

FIG. 6



[Technical Field]

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

[Background Art]

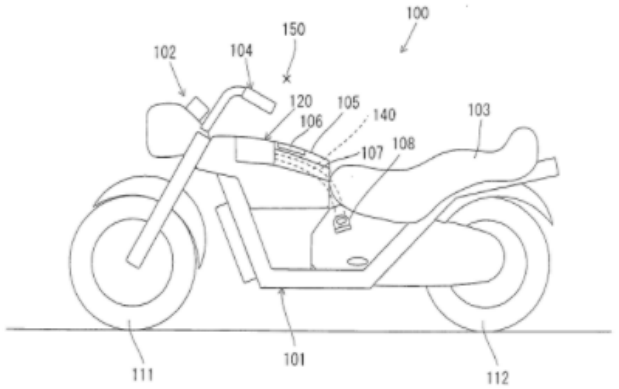
[0002] Various techniques for restraining the rider of a motorcycle with an airbag system mounted to the motorcycle are known. For example, known techniques include a technique of restraining the rider of a motorcycle in the event of a head-on collision by inflating an airbag housed in a case mounted 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 a motorcycle airbag system to be mounted to a motorcycle.

[Means for Solving the Problems]

FIG. 1



☆ EP1813517A1 Motorcycle airbag system and motorcycle

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Bibliographic data | Description | Claims | Drawings | Original document | Citations | Legal events | Patent family

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A motorcycle airbag system (120) to be mounted a motorcycle (100), comprising:

a housing case (125) to be mounted to a motorcycle (100);

an airbag (121) housed in the housing case (125) and inflatable through an opening (125c) at the top of the housing case (125);

an inflator (124) housed in the housing case (125), for generating airbag-inflation gas;

a gas supply section for supplying the airbag-inflation gas generated by the inflator (124) to the airbag (121);

a long webbing (140) fixed at one end to the motorcycle (100) and stitched at the other end to the airbag (121) so as to tether the airbag (121) to the motorcycle (100), wherein

when the airbag-inflation gas generated by the inflator (124) is supplied to the airbag (121) through the gas supply section in a head-on collision of the motorcycle (100), the airbag (121) protrudes out of the housing case (125) through the opening (125c) of the housing case (125) to deploy into a rider restraint region (150), wherein

the webbing (140) is disposed above the airbag (121) to thereby restrict the

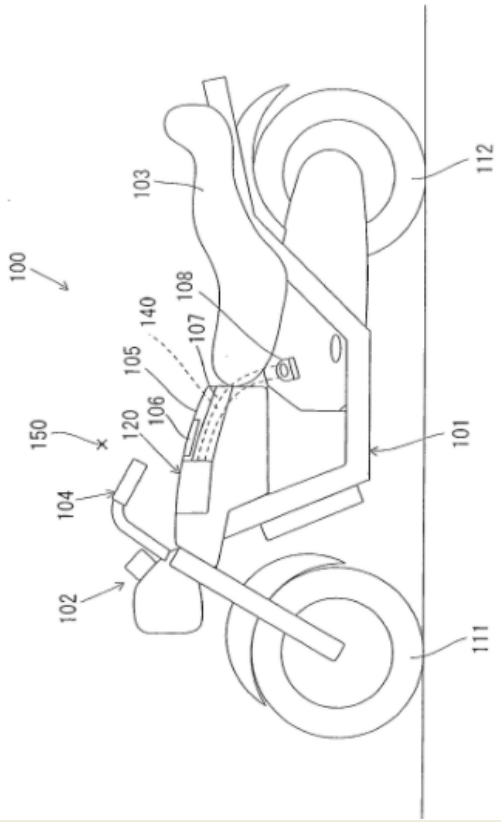

FIG. 1

EP1813517A1 Motorcycle airbag system and motorcycle

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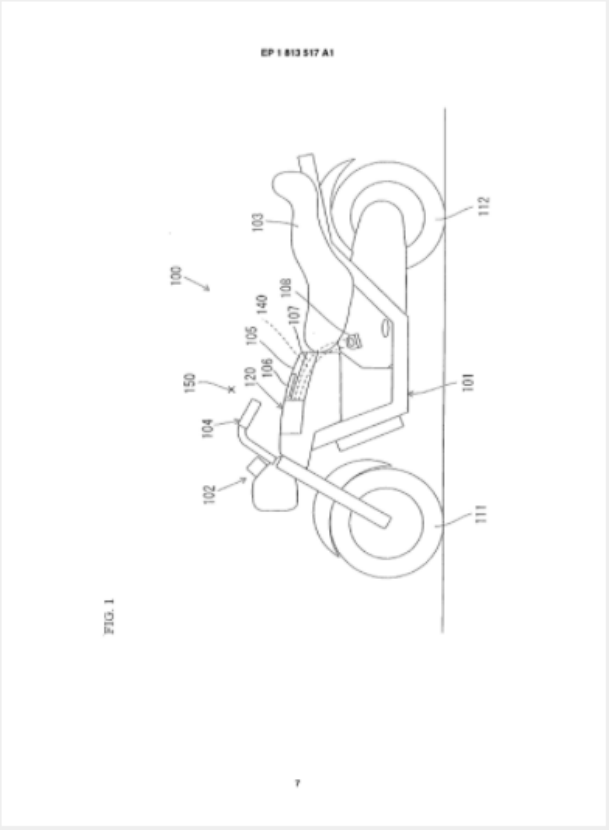

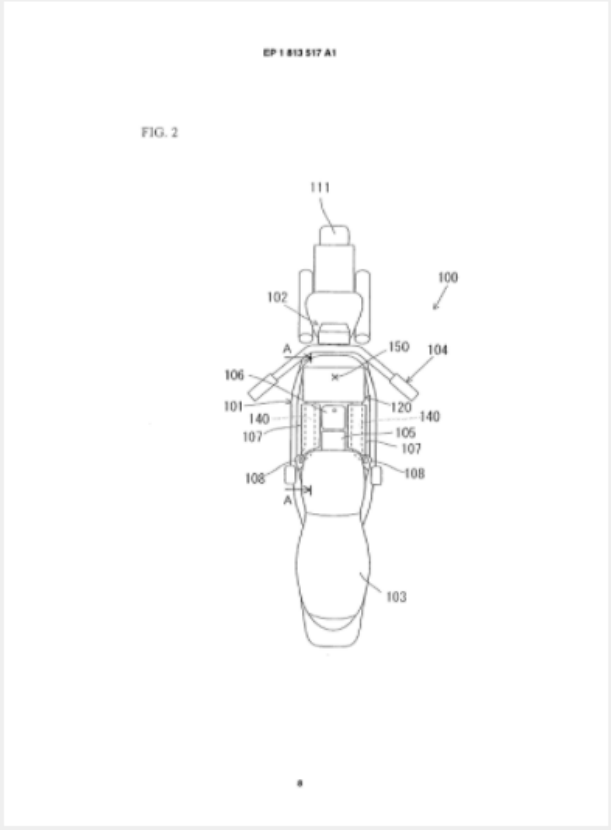

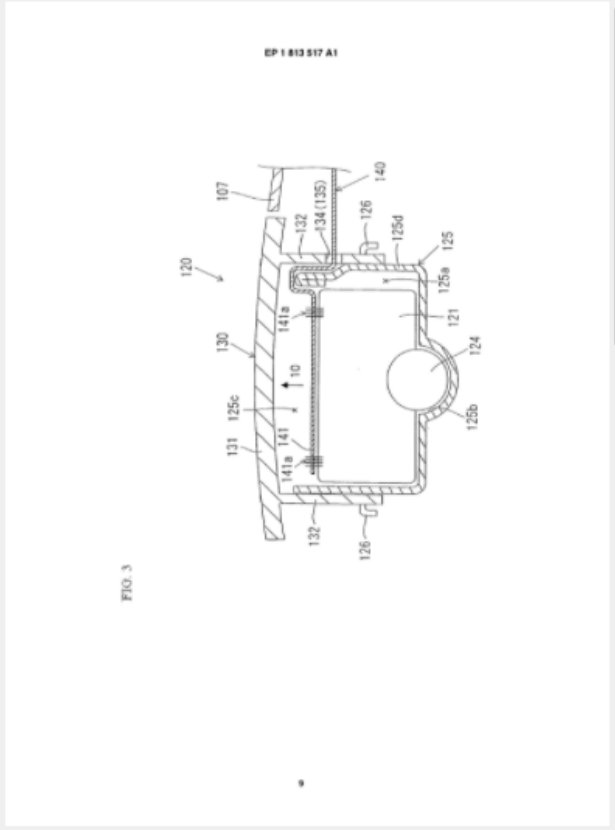

(19) Europäisches Patentamt
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(11) EP 1 813 517 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
01.08.2007 Bulletin 2007/31

(51) Int Cl.:
B62J 27/00 *(2006.01)* ***B60R 21/18*** *(2006.01)*

(21) Application number: **07000702.6**

(22) Date of filing: **15.01.2007**

(84) Designated Contracting States:
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Designated Extension States:
AL BA HR MK YU

(30) Priority: **25.01.2006 JP 2006016838**

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

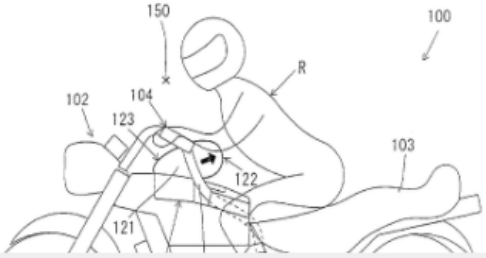
(72) Inventor: **Miyata, Yasuhito**
Tokyo 106-8510 (JP)

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

(54) **Motorcycle airbag system and motorcycle**

(57) In order to provide a technique effective in improving rider restraining performance of an airbag (121) in a motorcycle airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) restricts the deployment of the airbag (121) toward the rider's head in an early stage of the inflation of the airbag (121) in the event of a head-on collision of the motorcycle (100) using a webbing (140) that tethers the airbag (121) to the motorcycle (100).

FIG. 6



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]

[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 a motorcycle airbag system to be mounted to a motorcycle.

[Means for Solving the Problems]

[0004] According to the present invention, this object is achieved by a motorcycle airbag system as defined in claim 1 and a motorcycle as defined in claim 2.

[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.

[0006] According to a first aspect of the present invention for solving the problems, a motorcycle airbag system is provided. The motorcycle airbag system is to be mounted to a motorcycle, and includes at least a housing case, ates airbag-inflation gas.

[0008] The gas supply section of the invention has the function of supplying the airbag-inflation gas generated by the inflator to the airbag. The webbing of the invention is a long member fixed at one end to the motorcycle and stitched at the other end to the airbag so as to tether the airbag to the motorcycle.

[0009] In the motorcycle airbag system with this arrangement, the airbag-inflation gas generated by the inflator is supplied to the airbag through the gas supply section in a head-on collision of the motorcycle, so that the airbag protrudes out of the housing case through the opening of the housing case to deploy into a rider restraint region. 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.

[0010] It is desirable for the airbag system of this type to be mounted to a motorcycle that the airbag not only deploy to the rider restraint region ahead of the rider but also deploy according to the situation. Specifically, when the airbag first inflates toward the head of the rider who leans forward at a head-on collision of the motorcycle, the load from the airbag applied in the direction opposite to the moving direction of the rider may be applied to the rider's head.

[0011] Accordingly, the webbing of the invention tethers the airbag to the motorcycle and is disposed above the airbag to thereby restrict the deployment of the airbag toward the rider's head in the early stage of the deployment of the airbag. Thus, the airbag first deploys a rider's-chest restraint portion toward the rider's chest to push the rider's chest with the rider's-chest restraint portion, thereby raising the upper body of the rider, and then deploys a rider's-head restraint portion toward the rider's head to thereby restrain the rider's head with the rider's-head restraint portion. Thus the load on the rider's head from the airbag can be reduced in the early stage of the deployment of the airbag.

[0012] The arrangement of the airbag system allows the rider restraint performance of the airbag to be improved by using the webbing for restricting the deployment of the airbag toward the ride's head in the early stage of the deployment of the airbag in the head-on collision of the motorcycle. The invention particularly provides a strategic arrangement in which the webbing for tethering the airbag to the motorcycle is also used as

Publication	Earliest priority date	Publication date	Applicants	Title	IPC	CPC	Citation origin
EP1762475A2	2005-09-07	2007-03-14	TAKATA CORP [JP]	Airbag apparatus for motorcycle	B60R21/00, B60R21/20, B60R21/2338, B62J27/00, B60R21/16, B60R21/00	B60R21/2338 (EP), B62J27/00 (EP), B60R2021/0088 (EP), B60R2021/23386 (EP)	APP
EP1767445A2	2005-09-26	2007-03-28	TAKATA CORP [JP]	Airbag apparatus and motorcycle having the same	B62J27/00	B60R21/20 (EP), B62J27/00 (EP), B60R2021/0088 (EP)	APP
DE102004016364A1	2004-03-31	2005-11-24	BAYERISCHE MOTOREN WERKE AG [DE]	Motor cycle airbag arrangement has interior of airbag without choke points	B60R21/16, B62J27/00, B60R21/231, B60R21/00,	B60R21/16 (EP), B60R21/2338 (EP), B62J27/00 (EP),	SEA
US2004207189A1	2003-04-16	2004-10-21	TAKATA CORP [US], TAKATA CORP [JP]	Airbag device and motorcycle with the airbag device	B60R21/16, B62J27/00, B60R21/00, B60R21/233, B60R21/239	B60R21/16 (EP), B60R21/2338 (EP), B62J27/00 (EP), B60R2021/0088 (EP), B60R2021/23382 (EP), B60R2021/23386 (EP), B60R21/239 (EP), B62K2202/00 (EP)	SEA

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Publication	Application number	Title	Publication date	Applicants
US2007170704A1	US62674807A	Motorcycle Airbag System and Motorcyle	2007-07-26	
CN101007555A	CN200710007280A	Motorcycle airbag system and motorcycle	2007-08-01	TAKATA CORP [JP]
EP1813517A1	EP07000702A	Motorcycle airbag system and motorcycle	2007-08-01	TAKATA CORP [JP]
JP2007196817A	JP2006016838A	AIRBAG DEVICE FOR MOTORCYCLE, AND MOTORCYCLE	2007-08-09	TAKATA CORP
US7686328B2	US62674807A	Motorcycle airbag system and motorcycle	2010-03-30	TAKATA CORP [JP]
EP1813517B1	EP07000702A	Motorcycle airbag system and motorcycle	2010-10-27	TAKATA CORP [JP]
JP4679376B2	JP2006016838A	AIRBAG DEVICE FOR MOTORCYCLE, AND MOTORCYCLE	2011-04-27	
CN101007555B	CN200710007280A	Motorcycle airbag system and motorcycle	2012-06-06	TAKATA COPRORATION

EP1813517A1 Motorcycle airbag system and motorcycle

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Publication	Application number	Family	Title	Publication date	Applicants	CPC	IPC
CN101007555A	CN200710007280A	Simple	Motorcycle airbag system and motorcycle	2007-08-01	TAKATA CORP [JP]	B60R2021/0088 (EP); B60R2021/23316 (EP); B62J27/00 (EP)	B60R21/16 B60R21/2 B62J27/00 B62K11/00
CN101007555B	CN200710007280A	Simple	Motorcycle airbag system and motorcycle	2012-06-06	TAKATA COPRORATION	B60R2021/0088 (EP); B60R2021/23316 (EP); B62J27/00 (EP)	B60R21/16 B60R21/2 B62J27/00 B62K11/00
EP1813517A1	EP07000702A	Simple	Motorcycle airbag system and motorcycle	2007-08-01	TAKATA CORP [JP]	B60R2021/0088 (EP); B60R2021/23316 (EP); B62J27/00 (EP)	B60R21/16 B60R21/18 B60R21/2 B62J27/00
EP1813517B1	EP07000702A	Simple	Motorcycle airbag system and motorcycle	2010-10-27	TAKATA CORP [JP]	B60R2021/0088 (EP); B60R2021/23316 (EP); B62J27/00 (EP)	B60R21/16 B60R21/18 B60R21/2 B62J27/00

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31.08.2011	Communication regarding the expiry of opposition period	Search / examination	1
30.09.2010	Decision to grant a European patent	Search / examination	2
14.09.2010	Filing of the translations of the claims		
14.09.2010	French translation of claims		
14.09.2010	German translation of the claims		
09.06.2010	Bibliographic data of the European patent application		
09.06.2010	Communication about intention to grant a European patent		
09.06.2010	Intention to grant (signatures)		
09.06.2010	Text intended for grant		
24.06.2009	Claims		
24.06.2009	Description		
24.06.2009	Reply to communication from the Examining Division		
06.03.2009	Annex to the communication		
06.03.2009	Communication from the Examining Division		
24.09.2008	CDS Clean up - amended data concerning the representative for the applicant		
19.06.2008	Final instructions (loss of partial rights)		
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09.06.2008	Drawings		
09.06.2008	Reply to communication from the Examining Division		
10.03.2008	Designation deemed to be withdrawn (non payment of designation fees)		
28.02.2008	Communication from the Examining Division		
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Banzer, Hans-Jörg
Kraus & Weisert
Patent- und Rechtsanwälte
Thomas-Wimmer-Ring 15
80539 München
ALLEMAGNE

Date 30.09.10

Reference 17158EP /nh
Application No./Patent No. 07000702.6 - 2425 / 1813517
Applicant/Proprietor TAKATA CORPORATION

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

Following examination of European patent application No. 07000702.6 a European patent with the title and the supporting documents indicated in the communication pursuant to Rule 71(3) EPC dated 09.06.10 is hereby granted in respect of the designated Contracting States.

Patent No. : 1813517
Date of filing : 15.01.07
Priority claimed : 25.01.06/JPA 2006016838

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 10/43 of 27.10.10.

Examining Division

Feber L Flori M Gaillard A

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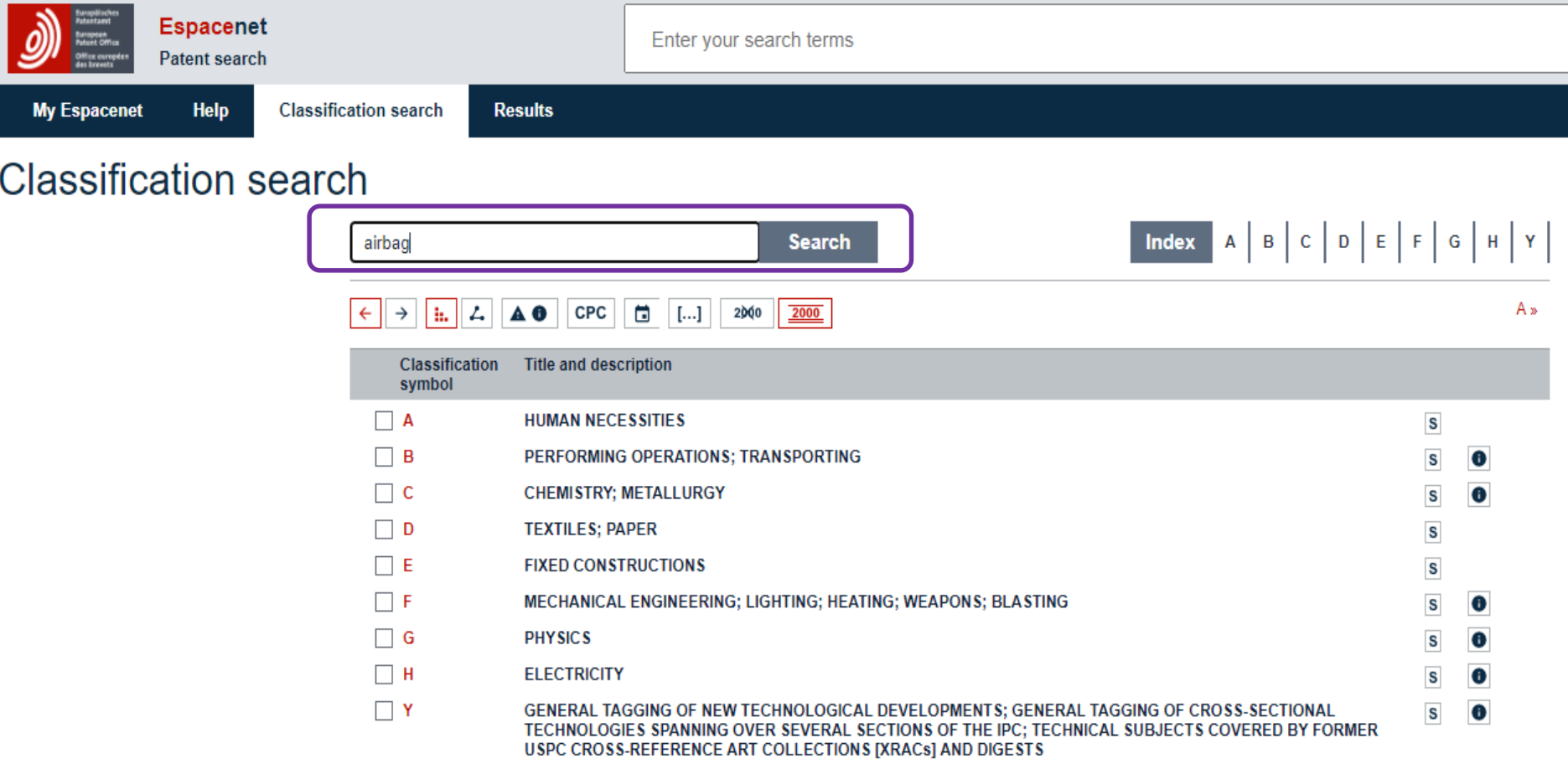
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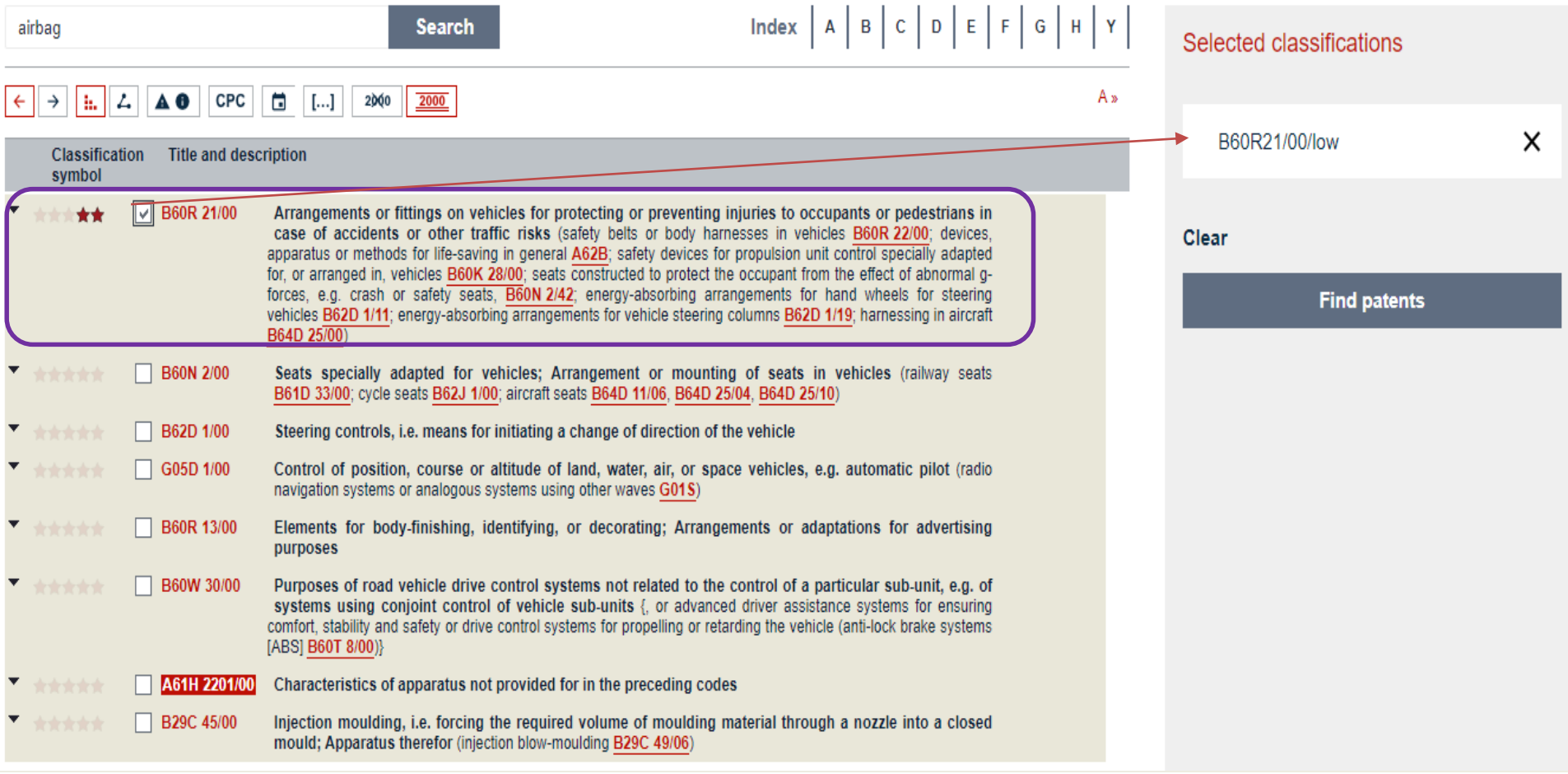
airbag
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Title and description
B60R 21/00
Arrangements or fittings on vehicles for protecting or preventing injuries to occupants or pedestrians in case of accidents or other traffic risks (safety belts or body harnesses in vehicles B60R 22/00; devices, 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. Aufstellelement zur Verwendung bei einer Motorhaube, Motorhau…
DE102020006715A1 • 2020-12-17 • DAIMLER AG [DE]
Earliest priority: 2020-11-02 • Earliest publication: 2020-12-17
Die Erfindung betrifft ein Aufstellelement (1) zur Verwendung bei einer Motorhaube (21), wobei- das Aufstellelement (1) ein Befestigungselement (3), mindestens ein Teleskopelement (5), ein Anschlagelement (7) und ein Federelement (9) aufweist, wobei-

2. 타공판이 부착된 택시 격벽
KR20200128489A • 2020-11-13 • JANG YOUNG JIN [KR]
Earliest priority: 2020-10-26 • Earliest publication: 2020-11-13
본 발명은 운전자가 안전을 위하여 설치한 타공판이 부착된 택시 격벽에 있어서, 전방에서 오는 자동차 전조등 빛이 택시 후방격벽에 비치면 그 후방격벽 전조등 반사 빛이 실내 백미러를 통해 운전자의 시야로 들어오게 되며, 운전자는 그 반사 빛에 의한 판단착각으로 인한

3. Schutzeinrichtung für Fahrzeuge gegen Feuer und Verletzung von P…
DE202020004437U1 • 2020-11-10 • KETTLING THEODOR [DE]
Earliest priority: 2020-10-22 • Earliest publication: 2020-11-10
Schutzvorrichtung für Fahrzeuge gegen Feuer und Verletzung von Passanten bei Kollisionen, dadurch gekennzeichnet, dass Druckkissen mit Löschmittel und Austreibvotrichtung an der Unterseite der Motorhaube von Fahrzeugen montiert sind und

4. Airbagvorrichtung für ein Kraftfahrzeug
DE102020005829A1 • 2020-11-12 • DAIMLER AG [DE]
Earliest priority: 2020-09-24 • Earliest publication: 2020-11-12
Die Erfindung betrifft eine Airbagvorrichtung (12) für ein Kraftfahrzeug (10), wobei ein Gassack (14) der Airbagvorrichtung (12), welcher dazu ausgebildet ist, bei einem Aufprall des Kraftfahrzeugs (10) mit Gas befüllt zu werden, in einem Seitenteil (16) eines Sitzes

Query language: en de fr

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OR + Field

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Title = → Group

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Title = → Group

motorcycle

Title = → Group

motorbike

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1. Enclosed electric motorcycle

US10800270B1 • 2020-10-13 • KUO MING CHUAN [US]

Earliest priority: 2020-05-11 • Earliest publication: 2020-10-13

An improved enclosed electric motorcycle has an electric motor directly driving the rear wheel with a chain or a belt. A pair of steering handles and an accelerator foot pedal enables a driver to drive the motorcycle like an automobile. The pair of the landing wheel

2. Motorcycle clothing with airbag

TWM590370U • 2020-02-11 • TAIPEI CITY UNIV SCIENCE & TECHNOL...

Earliest priority: 2019-10-05 • Earliest publication: 2020-02-11

一種具安全氣囊之摩托車衣，包括有：一摩托車衣、一控制電路、複數個撞擊感應器、複數個自動充氣氣瓶及複數個可充氣氣囊體；其中，於機車發生碰撞時，各該撞擊感應器可將偵測出之撞擊訊號傳予該控制電路，使該控制電路控制各該自動充氣氣瓶對各該可充氣氣囊體

3. Waistcoat protection airbag for motorcycle and application method t...

CN110547525A • 2019-12-10 • SHANGHAI CANLONG PLASTIC CO LTD

Earliest priority: 2019-08-27 • Earliest publication: 2019-12-10

The invention belongs to the technical field of a driving protection device and discloses a waistcoat protection airbag for a motorcycle. The waistcoat protection airbag comprises a waistcoat, whereinan inflatable airbag is sewn on the inner surface of the waistcoat; a

4. SAFE MOTORBIKE

WO2020240273A1 • 2020-12-03 • CENTRO DE INNOVACION PARA M...

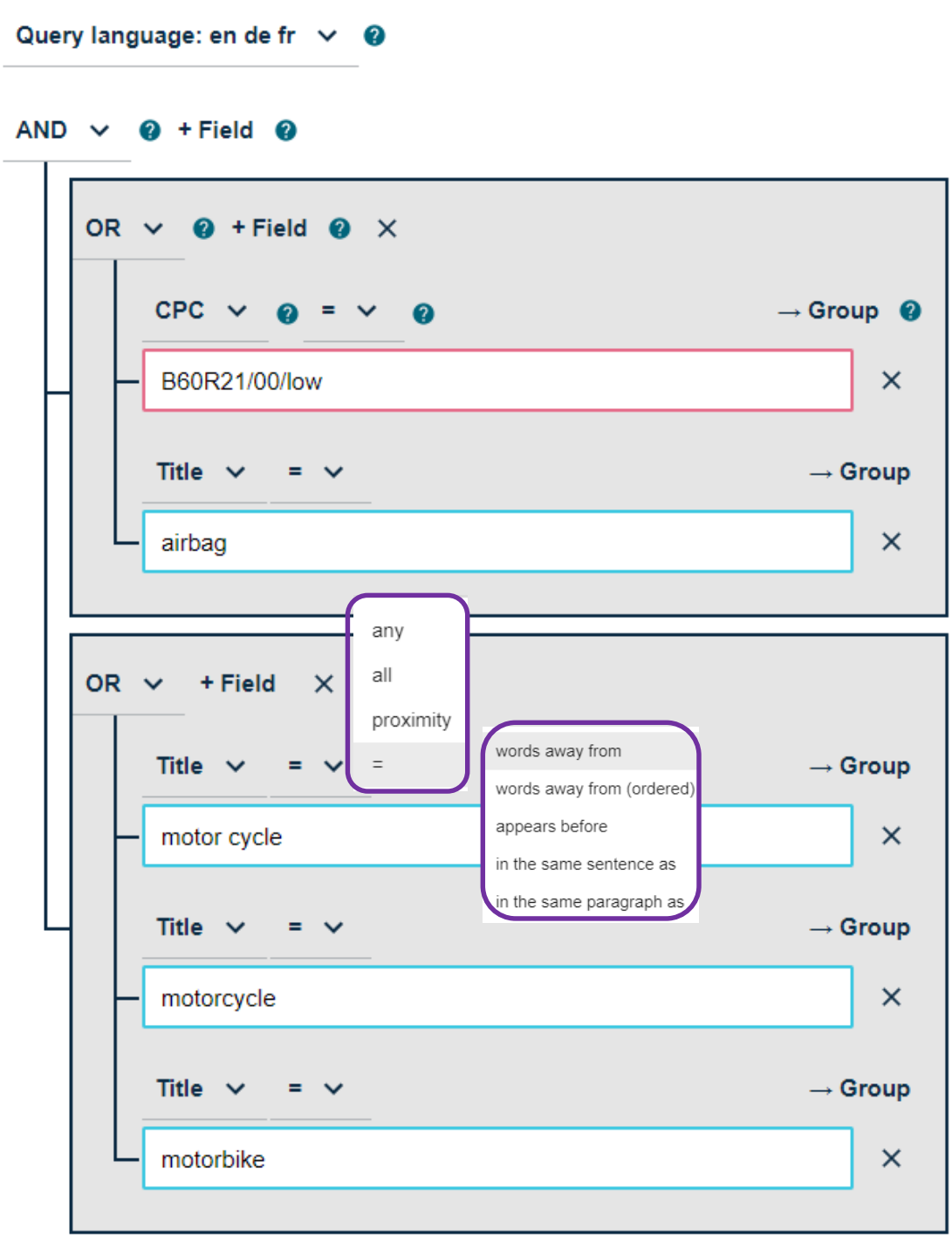
Earliest priority: 2019-05-24 • Earliest publication: 2020-05-29

The present invention relates to a three-wheel monocoque motorbike-type vehicle designed to increase the survival of persons (users or pedestrians) in the event of an accident. The vehicle is characterised by its inverted-tricycle configuration and is provided

5. Motorcycle cushion provided with safety airbag

CN110254575A • 2019-09-20 • SUN MINGJING

Earliest priority: 2019-05-14 • Earliest publication: 2019-09-20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airbag
any
all
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in the same paragraph as
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→ Group
motor cycle
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motorcycle
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WO2015032736A1 SAFETY SYSTEM FOR A MOTORCYCLE AND METHOD OF TRIGGERING A SAFETY SYSTEM

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Bibliographic data | Description | Claims | Drawings | Original document | Citations | Legal events | Patent family

Register ↗ | Global Dossier ↗

Applicants: BOSCH GMBH ROBERT [DE] +

Inventors: CUVILLIER MARIELLE [DE]; MAKA TORSTEN [DE]; WAHL ANJA [DE] +

Classifications

IPC: ***B60R21/00; B62J27/00;***

CPC: **A42B3/122 (US); B60R21/013 (EP,US); B60R21/0136 (EP,US); B60R21/16 (US); B60R22/00 (US); B62J27/00 (EP,US); B62J45/40 (EP);** A41D13/018 (EP,US); A41D2600/102 (EP,US); A42B3/046 (EP,US); B60R2021/003 (US); B60R2021/0088 (EP,US)

Priorities: DE102013217851A·2013-09-06

Application: EP2014068581W·2014-09-02

Publication: WO2015032736A1·2015-03-12

Published as: **DE102013217851A1; JP2016529163A; JP6356247B2; US2016207486A1; US9956933B2;** WO2015032736A1

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SAFETY SYSTEM FOR A MOTORCYCLE AND METHOD OF TRIGGERING A SAFETY SYSTEM

Abstract

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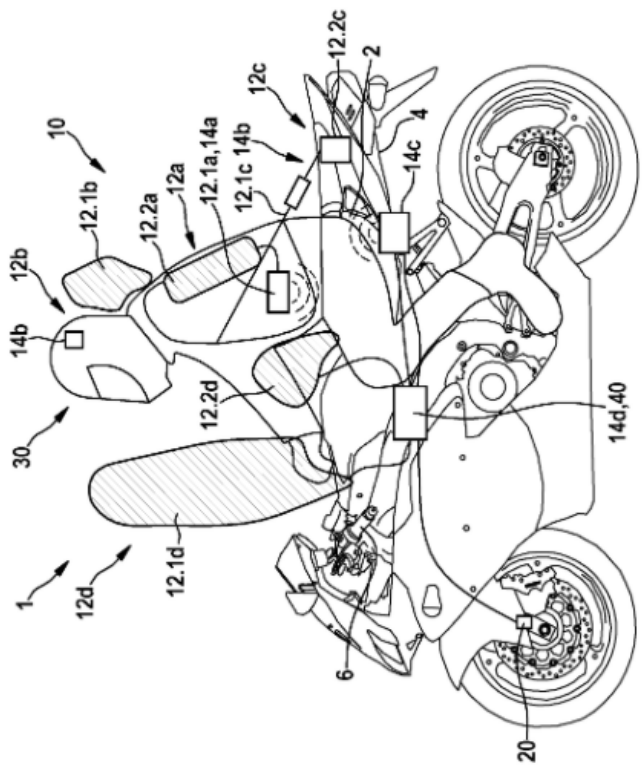
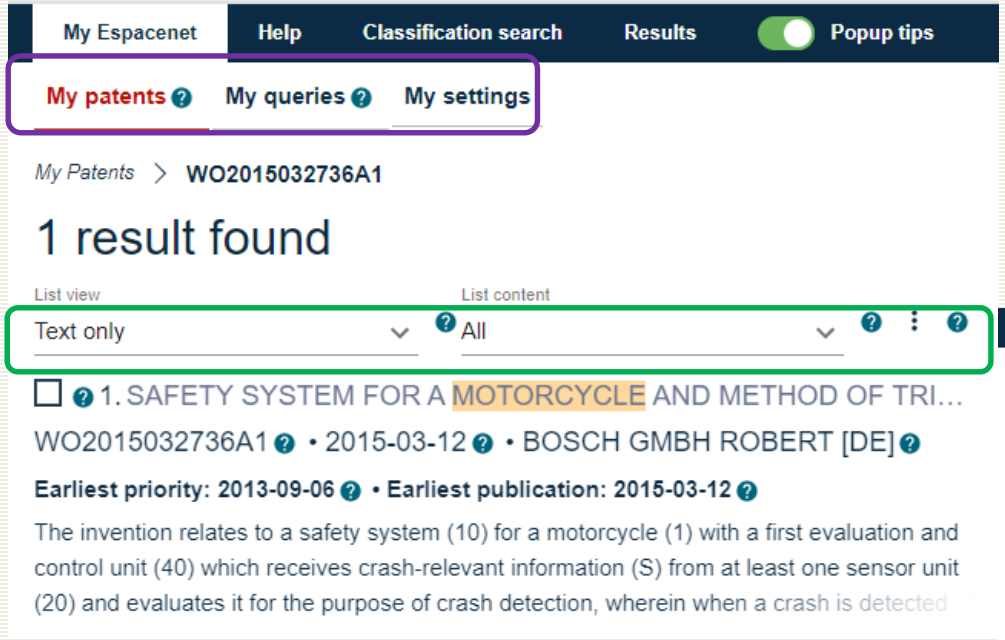
Fig. 1

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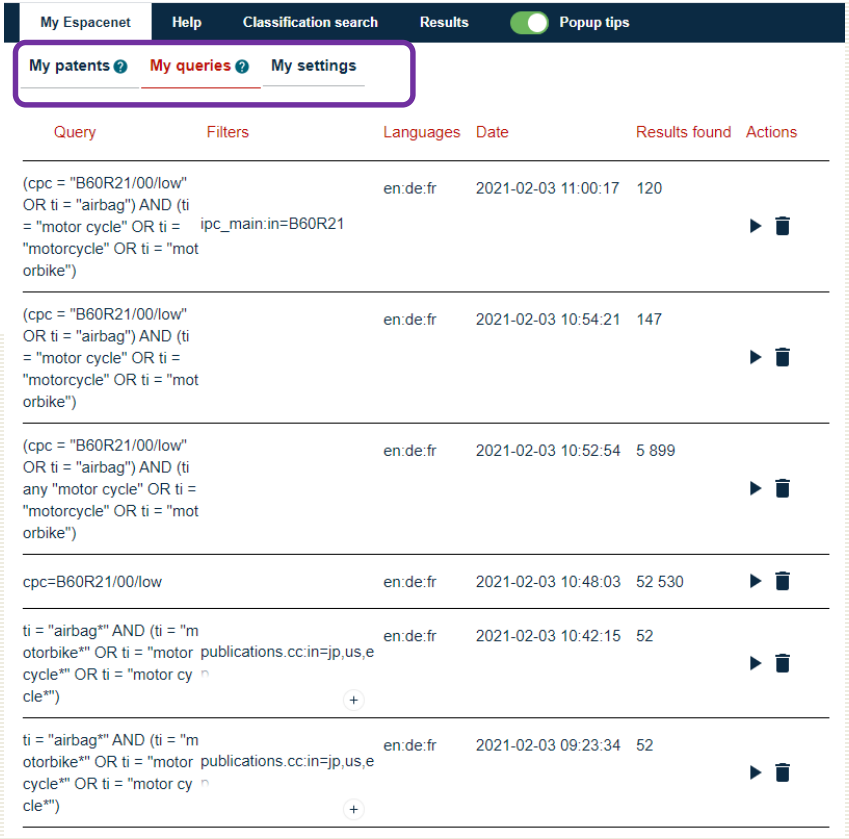
1. SAFETY SYSTEM FOR A MOTORCYCLE AND METHOD OF TRI...
WO2015032736A1 • 2015-03-12 • BOSCH GMBH ROBERT [DE]
Earliest priority: 2013-09-06 • Earliest publication: 2015-03-12
The invention relates to a safety system (10) for a motorcycle (1) with a first evaluation and control unit (40) which receives crash-relevant information (S) from at least one sensor unit (20) and evaluates it for the purpose of crash detection, wherein when a crash is detected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Status	The application is deemed to be withdrawn *Status updated on 26.08.2016* *Database last updated on 03.02.2021*		
Most recent event	26.08.2016	Application deemed to be withdrawn	published on 28.09.2016 [2016/39]
Applicant(s)	For all designated states Robert Bosch GmbH Postfach 30 02 20 70442 Stuttgart / DE		
	[N/P]		
Inventor(s)	01 / WAHL, Anja Anton Brucknerstrasse 10 71706 Markgroeningen / DE		
	02 / MAKA, Torsten Bei den Gaerten 16 70499 Stuttgart / DE		
	03 / CUVILLIER, Marielle Stieglitzweg 10 70499 Stuttgart / DE		
	[N/P]		
Application number, filing date	14765890.0	02.09.2014	
	WO2014EP68581		
Priority number, date	DE201310217851	06.09.2013	Original published format: DE102013217851
Filing language	DE		
Procedural language	DE		
Publication	**Type:**	A1 Application with search report	
	No.:	WO2015032736	
	Date:	12.03.2015	
	Language:	DE	
	The application published by WIPO in one of the EPO official languages on 12.03.2015 takes the place of the publication of the European patent application.		
	[2015/10]		
Search report(s)	**International search report - published on:**	EP	12.03.2015
Classification	**International:**	B62J27/00, B60R21/00	
Designated contracting states	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		

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08.03.2016	International Preliminary Report on Patentability Chapter I	-
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06.03.2016	Written Opinion of the International Search Authority	-
29.12.2015	Notice Informing The Applicant Of The Communication Of The International Application (To Designated Offices Which Do Not Apply The 30 Month Time Limit Under Article 22(1))	-
31.03.2015	Notice Informing The Applicant Of The Communication Of The International Application (To Designated Offices Which Do Not Apply The 30 Month Time Limit Under Article 22(1))	-
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