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PATENTY



UŽITNÉ
VZORY



OCHRANNÉ
ZNÁMKY



PRŮMYSLOVÉ
VZORY



OZNAČENÍ PŮVODU
A ZEMĚPISNÁ OZNAČENÍ

Espacenet

Hana Churáčková

květen 2025



ÚŘAD
PRŮMYSLOVÉHO
VLASTNICTVÍ

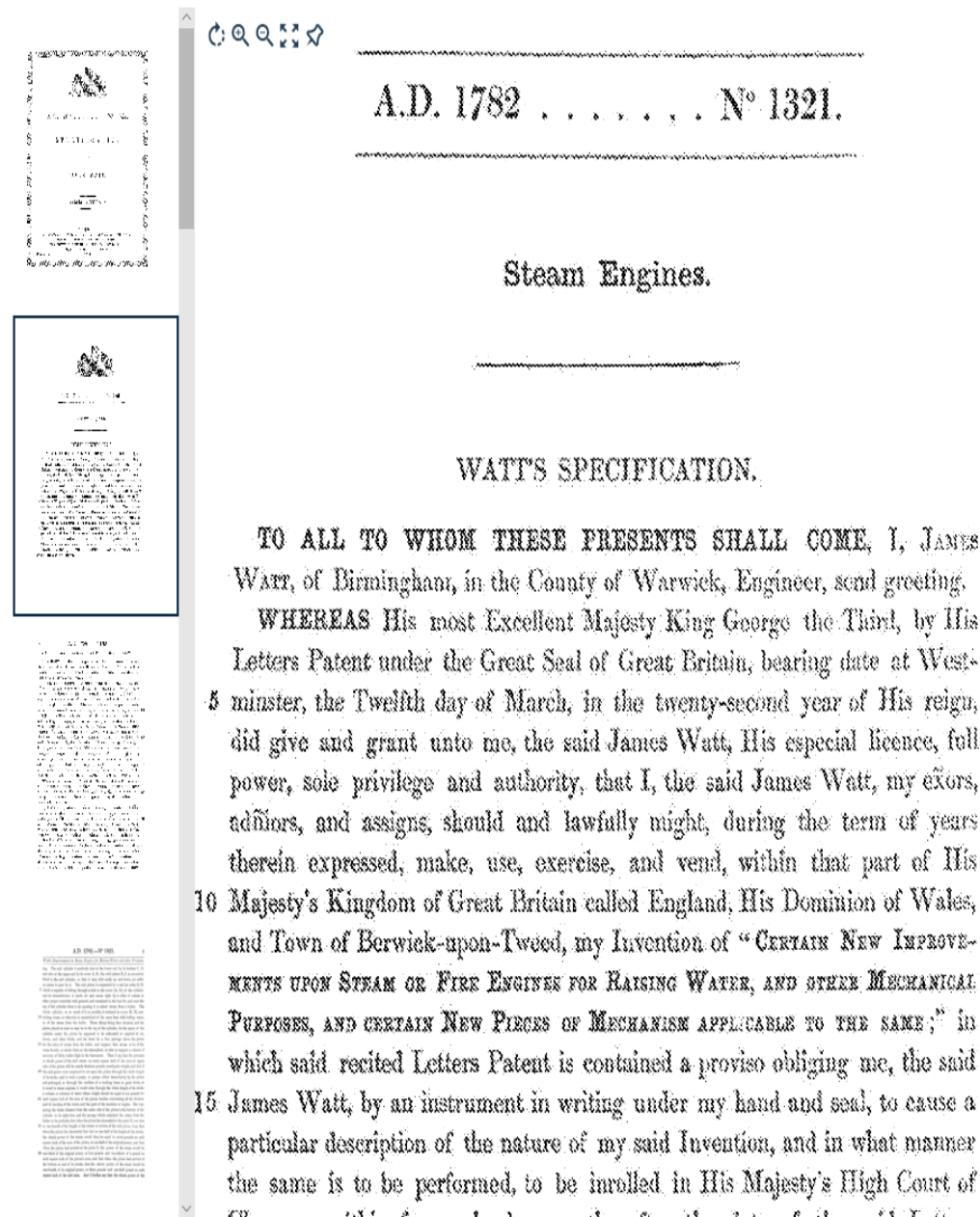
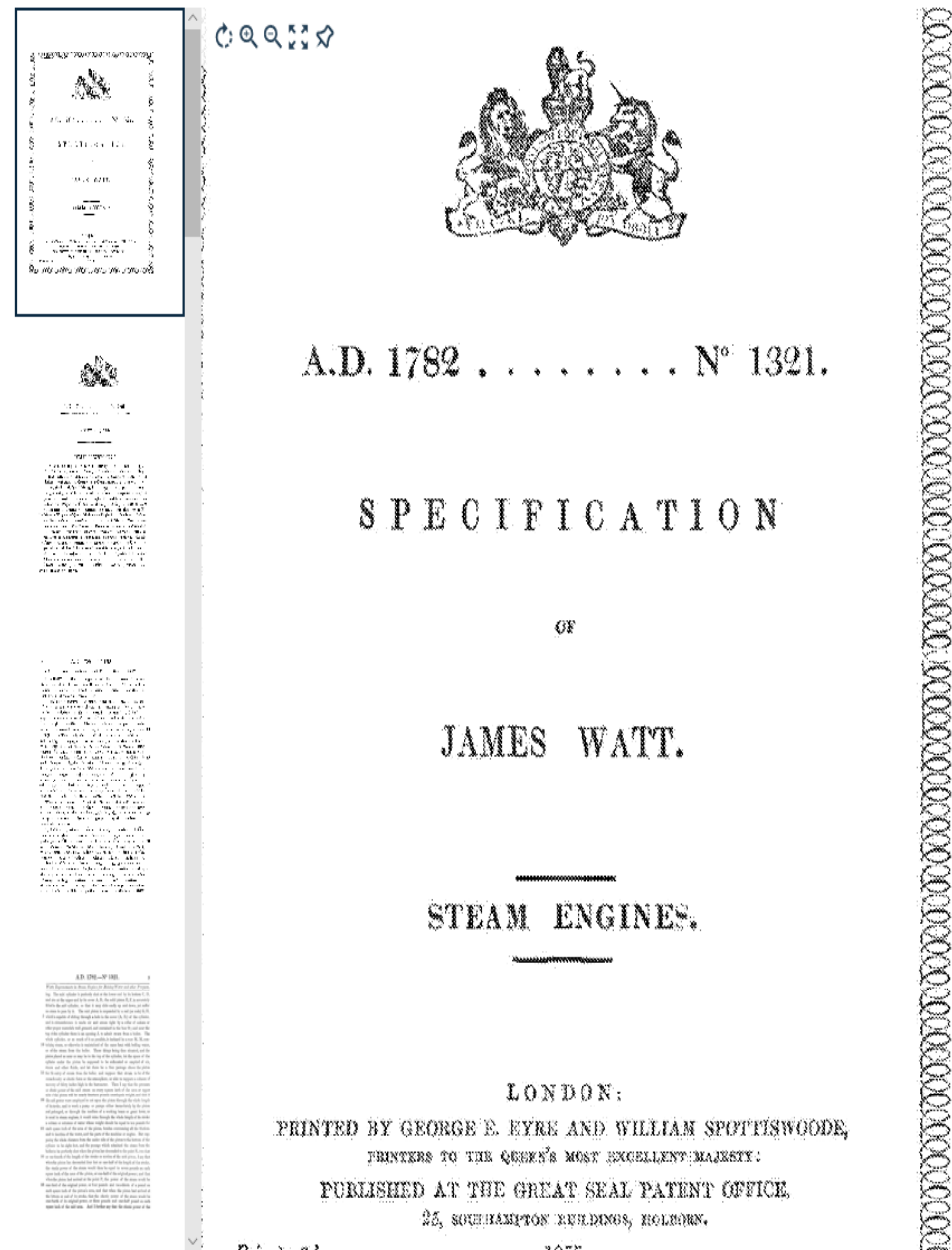
upv.gov.cz



Co je Espacenet?

- Volně přístupná databáze
- Informace o vynálezech a technických řešeních od 18. století až do současnosti
- Více než 150 mil. patentových dokumentů (patentové přihlášky, patenty, užité vzory od r. 1782) z celého světa





K čemu Espacenet slouží?

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



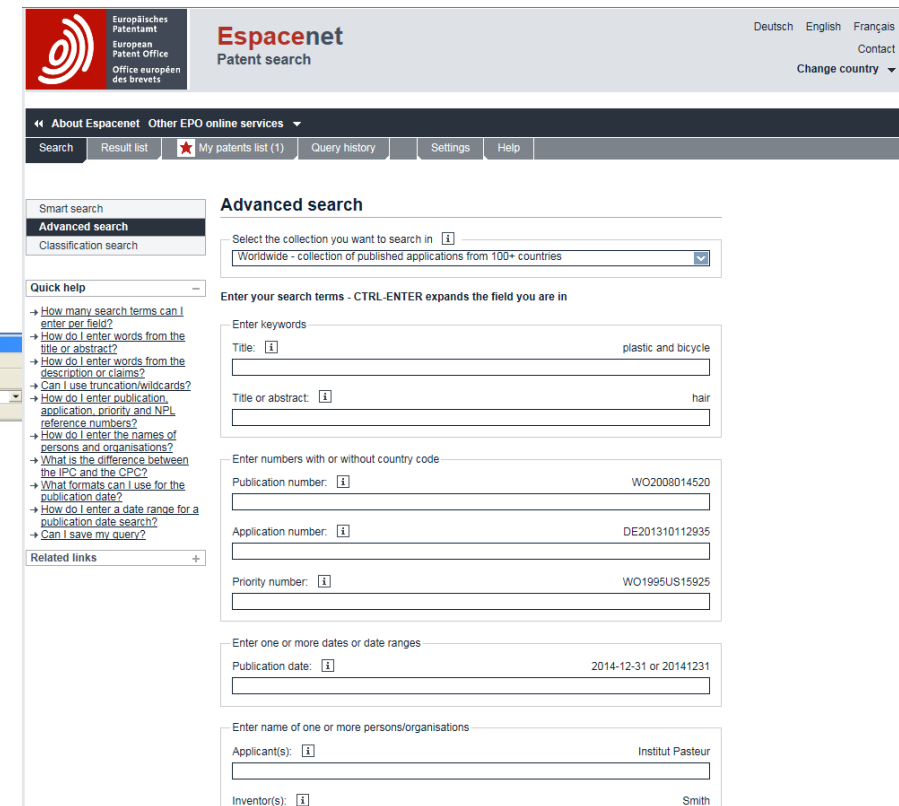
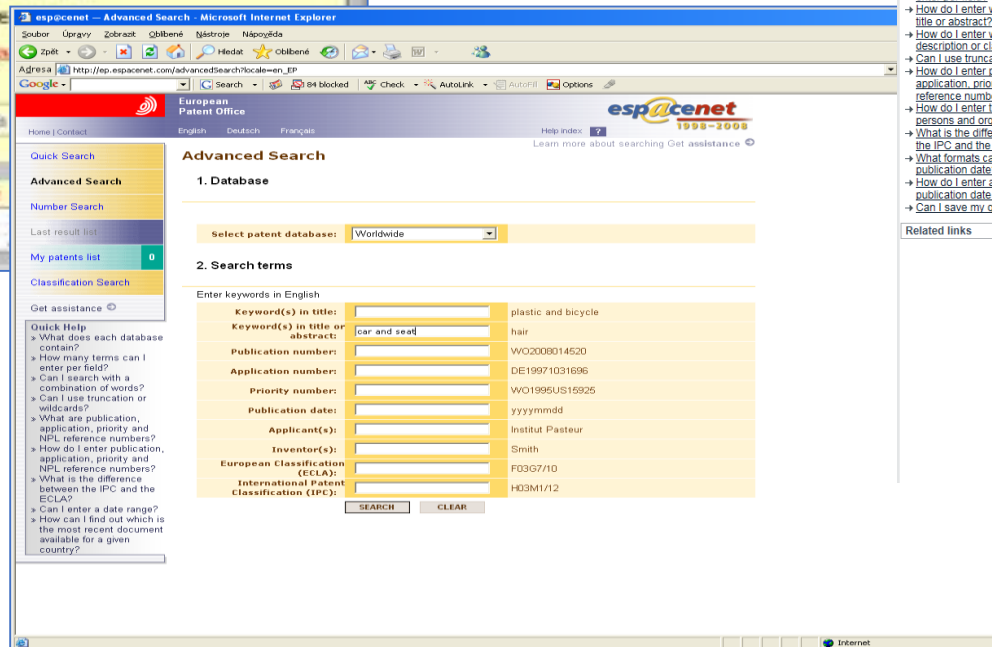
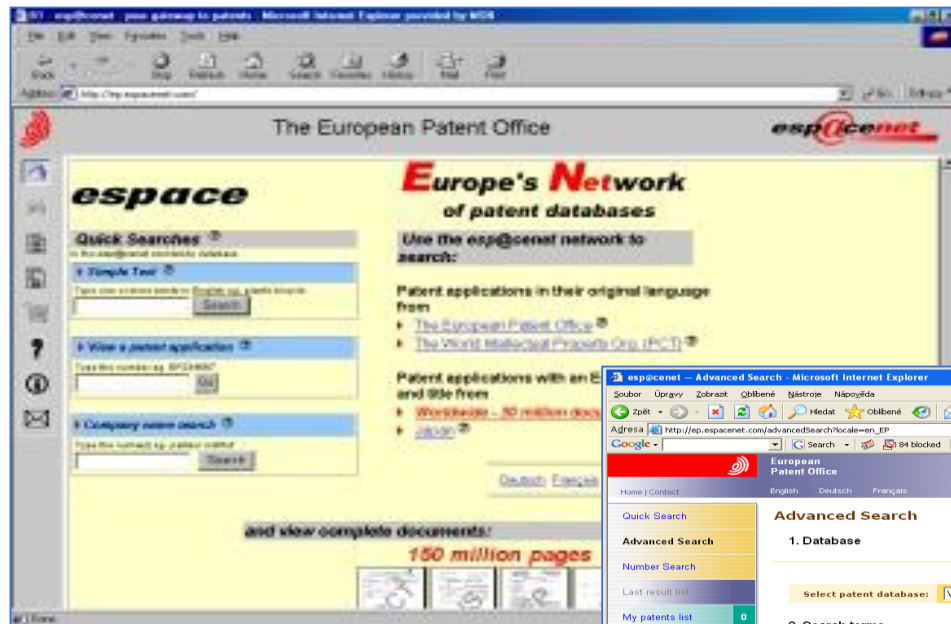
Komu je Espacenet určen?



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



Espacenet – 19. 10. 1998



„Nový“ Espacenet – 19. 10. 2019

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

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Espacenet - patent search

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European Publication Server

Searching Asian documents

EP full-text search

Espacenet patent search



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With its worldwide coverage and search features, Espacenet offers free access to information about inventions and technical developments from 1782 to today.

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> Advanced features of Espacenet
> Special focus Espacenet - Advanced search

Espacenet – pocket guide

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	<i>bxt</i>	Title, abstract or names	ntxt=microscope lens
ti	<i>ti</i>	Title	ti="mouse trap"
ab	<i>ab</i>	Abstract	ab="mouse trap"
desc	<i>desc</i>	Description	desc=lens
claims	<i>claims</i>	Claims	claims=laser
ta	<i>ta</i>	Title or abstract	ta="laser printer"
ctxt	-	Title, abstract or claims	ctxt=milking ctxt=robots
ftxt	<i>extftxt</i>	All text fields (title, abstract, description or claims)	ftxt=nanoparticles
in	<i>in</i>	Inventors	in=smith
pa	<i>pa</i>	Applicants	pa=siemens
ia	<i>ia</i>	Inventors or applicants	ia=apple OR ia="ries klaus"
pd ¹	<i>pd</i>	Publication date	pd=20180107
pr	<i>pr</i>	Priority number	pr=ep20050104792
pn	<i>pn</i>	Publication number	pn=ep1000000 pn=EPB1 ²
ap	<i>ap</i>	Application number	ap=jp19890234567
num	<i>num</i>	Numbers	num=ep1000000
ipc	<i>ipc</i>	IPC	ipc=A63B49/08
cpc	<i>cpc</i>	CPC	cpc="A61K31/13"
cpcc	<i>cpcc</i>	CPC C-sets	cpcc="C08F297/02"
cl	<i>cl</i>	IPC or CPC	cl=C10J3
ct	<i>ct</i>	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 will retrieve, in the first example, documents where mouse and trap occur in the same sentence
	cpc=(C08F220/38 prox/unit=sentence (EP))	will retrieve, in the second example, documents with the classification symbol C08F220/38 assigned by EP
	cpcc=(C08F218/08 prox/unit=sentence (C08F220/06, US, EP))	will retrieve, in the third example, documents with the C-sets C08F218/08 and C08F220/06 assigned by US and EP
Comparison operators ⁴	prox/unit=paragraph	mouse prox/unit=paragraph trap will retrieve documents where mouse and trap occur in the same paragraph
	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.



Třetí model Jawy z řady 350 OHC je stylový Scrambler!

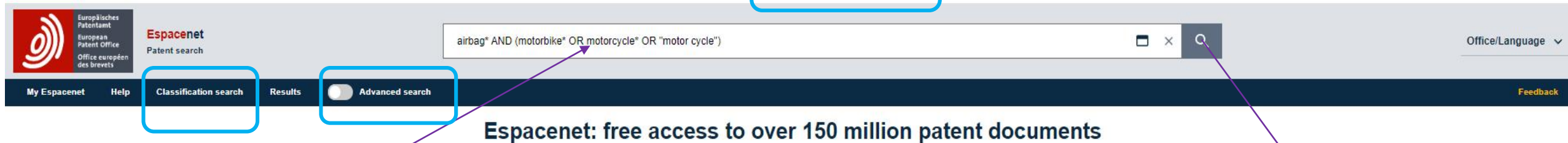
Airbag přímo na motorce? Jeden by tu byl

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.

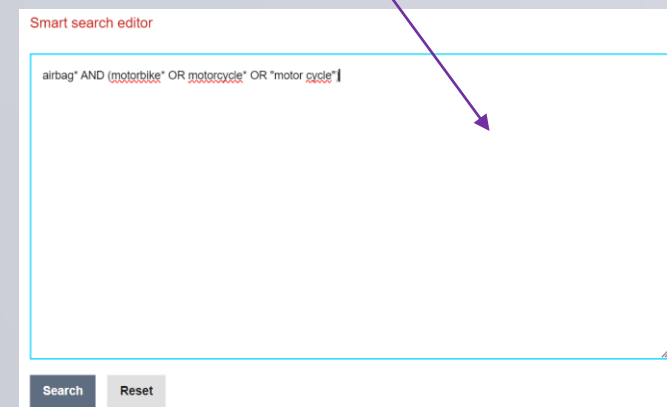
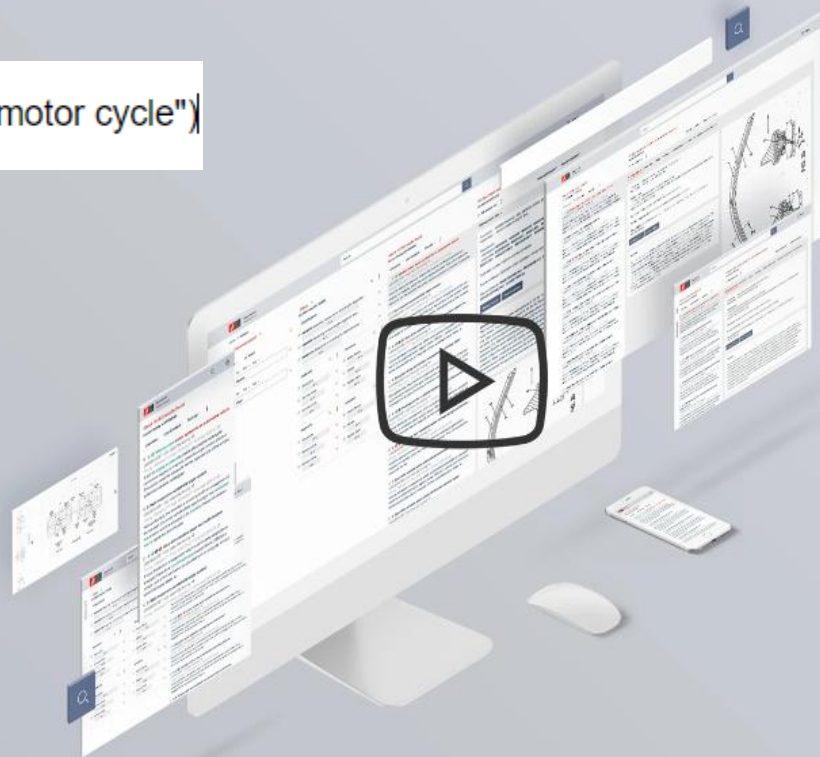
Goldwing má tedy svůj unikátní příplatkový airbag umístěn před jezdcem v místě, kde se normálně nachází nádrž. Jakmile dojde k nárazu, čidla na předku motorky zavelí a před jezdce se během milisekund postaví velká „homole“ airbagu, do níž se při dopředném pohybu zaboří. Nevylétne tak z motorky vpřed,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



Smart search



airbag* AND (motorbike* OR motorcycle* OR "motor cycle")



<https://www.youtube.com/watch?v=KLxnB5dqP70>

Quick access

Discussion forum

Pocket guide

Smart search

Truncation:

- * - neomený počet znaků (lze použít jen vpravo)
- ? – 0 nebo jeden znak
- # - právě jeden znak

Advanced search

Home > Search

Query language: en de fr ▾

AND ▾ + Field

AND ▾ + Field ×

Title ▾ all ▾ → Group

Title or abstract ▾ all ▾ → Group

OR ▾ + Field ×

Publication number ▾ any ▾ → Group

Application number ▾ any ▾ → Group

Priority number ▾ any ▾ → Group

Publication date ▾ = ▾ → Group

OR ▾ + Field ×

Applicants ▾ any ▾ → Group

Inventors ▾ any ▾ → Group

OR ▾ + Field ×

CPC ▾ any ▾ → Group

IPC ▾ any ▾ → Group

any

all

proximity

=

words away from

words away from (ordered)

appears before

in the same sentence as

in the same paragraph as



6 999 results found

List view

List content

Sort by

Text only



All



Relevance



☐ (0 patents selected) Select the first 20 results

☐ 1. **Airbag** apparatus, **motorbike** with **airbag** apparatus
US2005040628A1 (B2) • 2005-02-24 • TAKATA CORP...

Earliest priority: 2003-08-22 • Earliest publication: 200...

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

☐ 2. **Airbag** apparatus, **motorbike** with the **airbag** appa...
US2005029782A1 (B2) • 2005-02-10 • TAKATA CORP...

Earliest priority: 2003-08-07 • Earliest publication: 200...

...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**

☐ 3. **Handle cover**, **motorbike**
US2004207184A1 (B2) • 2004-10-21 • TAKATA CORP...

Earliest priority: 2003-04-17 • Earliest publication: 200...

...A technology for constructing an **airbag** in which protection of the occupant may be thoroughly assured in case of accident of a

airbag*

motorbike*

motorcycle*

motor cycle

Countries (publication)

Languages (publication)

Publication date (publication)

Earliest priority date

IPC main groups

IPC subgroups

CPC main groups

CPC subgroups

CPC assigning offices

Applicants

Inventors

6 999 results found

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Text only All Relev...

(0 patents selected) Select the first 20 results

1. Airbag apparatus, motorbike with airbag a...
US2005040628A1 (B2) • 2005-02-24 • TAK...

Earliest priority: 2003-08-22 • Earliest publicati...

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

2. Airbag apparatus, motorbike with the airbag ...
US2005029782A1 (B2) • 2005-02-10 • TAKATA C...

Earliest priority: 2003-08-07 • Earliest publication:...

...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

3. Handle cover, motorbike
US2004207184A1 (B2) • 2004-10-21 • TAKATA C...

Earliest priority: 2003-04-17 • Earliest publication:...

...A technology for constructing an airbag in which protection of the occupant may be thoroughly assured in

Query language: en de fr

All text fields or names

Title

airbag*

OR + Field

Title

motorbike*

Title

motorcycle*

Title

motor cycle

AND + Field

All text fields or names

Any

- All
- Text fields
- Names
- Dates
- Numbers
- Classification
- Other
- Title
- Abstract
- Description
- Claims
- Title or abstract
- Title, abstract or claims
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Family Publication

Countries (publication)

Languages (publication)

Publication date (publication)

Family

Earliest priority date

IPC main groups

108 results found

List view

List content

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Text only

All

Relev...

(0 patents selected) Select the first 20 results

1. Airbag system for motorbike

DE19913906A1 (B4) • 1999-10-07 • HOND...

Earliest priority: 1998-03-30 • Earliest publicati...

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

2. Airbag apparatus, motorbike with airbag app...

US2005040628A1 (B2) • 2005-02-24 • TAKATA C...

Earliest priority: 2003-08-22 • Earliest publication:...

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

3. Airbag device for motor cycle

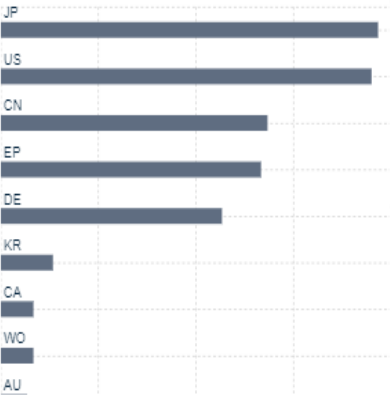
DE19729627A1 (B4) • 1998-01-29 • HONDA MO...

Earliest priority: 1996-07-25 • Earliest publication:...

The airbag device contains an airbag (14) mounted on the vehicle's frame (1) and which can expand upwards to buffer

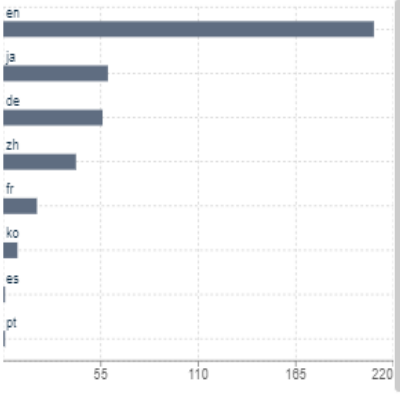
108 results found for: ti = "airbag" AND (ti = "motorbike" OR ti = "motorcycle" OR ti = "motor cycle")

Countries (publication)



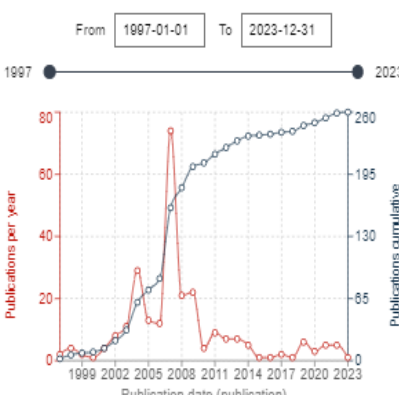
Apply Exclude + query

Languages (publication)



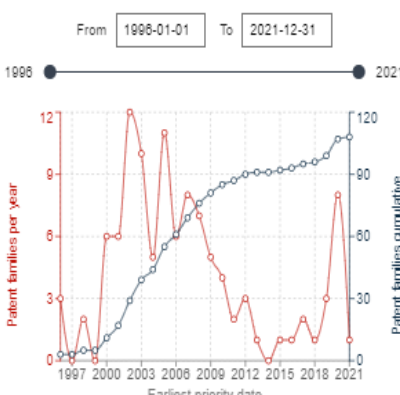
Apply Exclude

Publication date (publication)



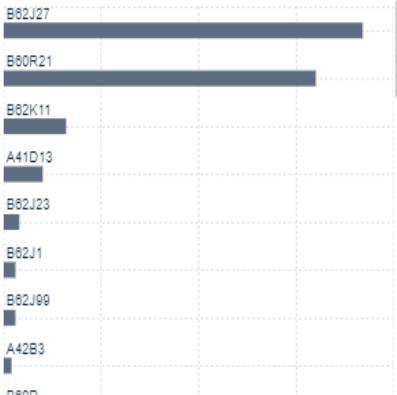
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Earliest priority date



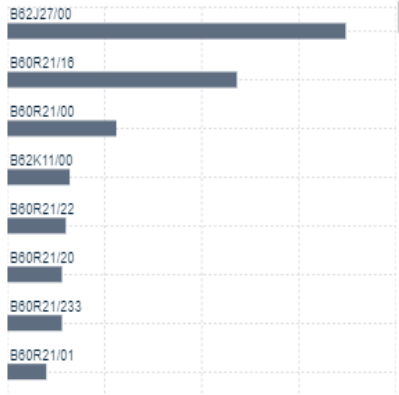
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IPC main groups



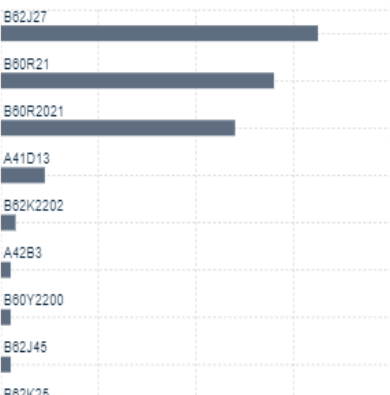
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IPC subgroups



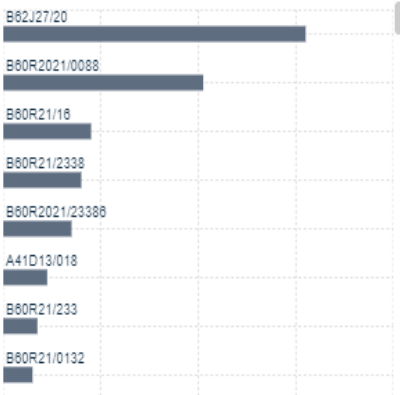
Apply Exclude + query

CPC main groups



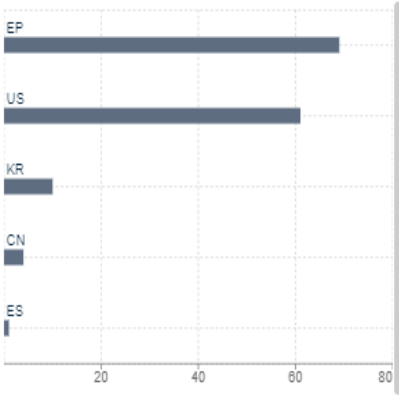
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CPC subgroups



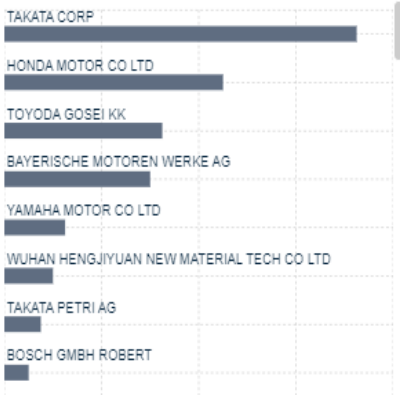
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CPC assigning offices



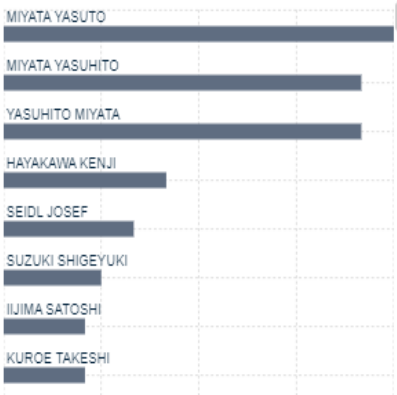
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Applicants



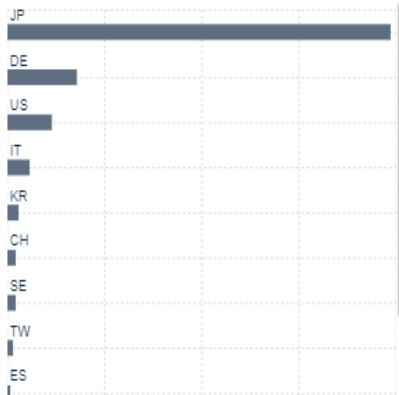
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Inventors



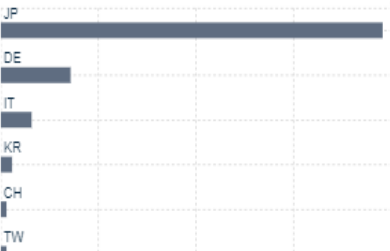
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Applicants - country



Apply Exclude

Inventors - country



Countries (publication)



↑↓ ? ↑↓ ?

☒ JP	58
☒ US	57
☐ CN	41
☒ EP	40
☒ DE	34
☐ KR	8
☐ CA	5
☒ WO	5

Apply

Exclude

+ query

Applicants



↑↓ ? ↑↓ ?

↑↓ ?

☒ TAKATA CORP	28
☒ HONDA MOTOR CO LTD	17
☒ TOYODA GOSEI KK	13
☒ BAYERISCHE MOTOREN WERKE AG	12
☒ YAMAHA MOTOR CO LTD	5
☐ TAKATA PETRI AG	3
☐ BOSCH GMBH ROBERT	2
☐ GM GLOBAL TECH OPERATIONS INC	2

Apply

Exclude

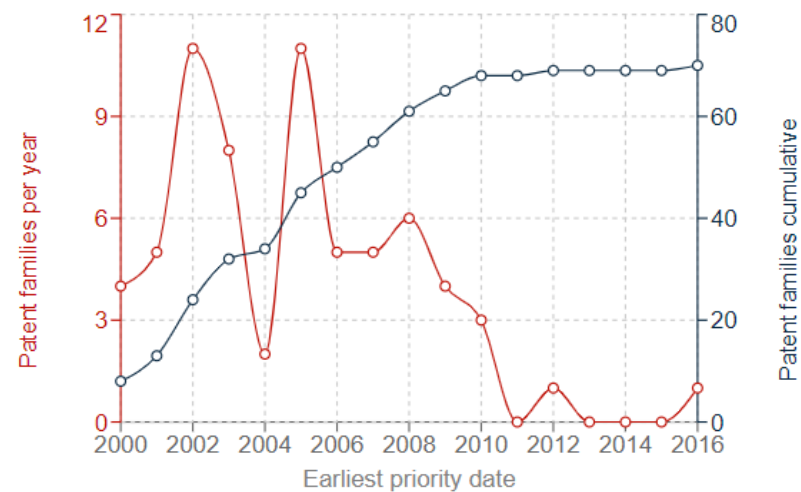
+ query

Earliest priority date



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

1996 2016



Apply

IPC main groups



↑↓ ? ↑↓ ?

↑↓ ?

☒ B62J27

66

☒ B60R21

56

☒ B62K11

15

☐ B62J23

3

☐ B60G17

☐ B60R22

☐ B62J

☐ B62J1

Apply

Exclude

+ query

IPC main groups



B62J27

B60R21

B62K11

B62J23

B60G17

B60R22

B62J

B62J1

B62J17

Apply

Exclude

+ query

66 results found

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Text only   All   Relevance   

☐ (0 patents selected) Select the first 66 results

☐  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

☐ 2. 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

☐ 3. Airbag apparatus, motorcycle with airbag apparatus
EP1721817A2 (A3) • 2006-11-15 • TAKATA CORP [JP]

66 results found

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☐ (0 patents selected) [Select the first 66 results](#)

☐ 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

☐ 2. [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

☐ 3. [Airbag](#) apparatus, [motorcycle](#) with [airbag](#) apparatus

EP1721817A2 (A3) • 2006-11-15 • TAKATA CORP [JP]

Earliest priority: 2005-05-09 • Earliest publication: 2006-11-09

In order to provide a technique of configuring an airbag apparatus (120) which can achieve thorough protection of a rider (R) in case of a vehicle (100) accident and a technique related thereto, an airbag apparatus (120) to be

☆ EP1813517A1 [Motorcycle](#) [airbag](#) system and [motorcycle](#)

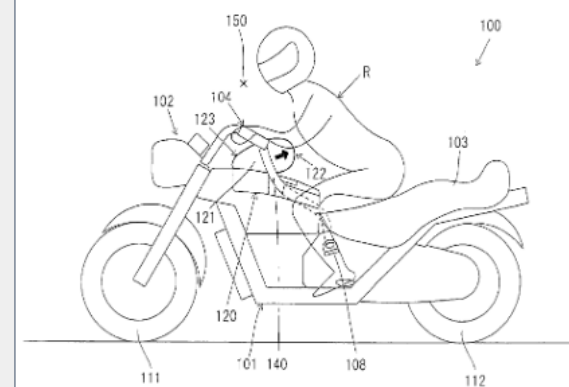
[Available in](#) [Patent Translate](#) [Bibliographic data](#) [Description](#) [Claims](#) [Drawings](#) [Original document](#) [Citations](#) [Legal events](#) [Patent family](#) [Register](#) [Global Dossier](#) [Applicants](#) TAKATA CORP [JP] +[Inventors](#) MIYATA YASUHIRO [JP] +[Classifications](#) [IPC](#) **B60R21/16; B60R21/18; B60R21/2338; B62J27/00;**[CPC](#) **B62J27/20 (EP,US); B60R2021/0088 (EP,US); B60R2021/23316 (EP,US);**[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) 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



Text only All Relevance

(0 patents selected) Select the first 66 results

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 elongate

2. **Motorcycle** **airbag** system and **motorcycle**
EP1813517A1 (B1) • 2007-08-01 • TAKATA CORP [JP]

List view
Text and thumbnails All Relevance

(0 patents selected) Select the first 66 results

1. **Airbag** apparatus, **motorbike** with **airbag** ap...
US2005040628A1 (B2) • 2005-02-24 • TAKAT...

Earliest priority: 2003-08-22 • Earliest publication: 2005-...

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

2. **Motorcycle** **airbag** system and **motorcycle**
EP1813517A1 (B1) • 2007-08-01 • TAKATA CORP [...]

Earliest priority: 2006-01-25 • Earliest publication: 2007-07-...

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

3. **Airbag** apparatus, **motorcycle** with **airbag** appa...
EP1721817A2 (A3) • 2006-11-15 • TAKATA CORP [...]

Earliest priority: 2005-05-09 • Earliest publication: 2006-11-...

In order to provide a technique of configuring an airbag apparatus (120) which can achieve thorough protection of a rider (R) in case of a vehicle (100) accident and a technique related

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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

2. **Motorcycle** **airbag** system and **motorcycle**
EP1813517A1 (B1) • 2007-08-01 • TAKATA

Earliest priority: 2006-01-25 • Earliest publication

3. **Airbag** apparatus, **motorcycle** with **airb**
EP1721817A2 (A3) • 2006-11-15 • TAKATA
Earliest priority: 2005-05-09 • Earliest publication

4. **Airbag** apparatus, **motorbike** with the a
US2005029782A1 (B2) • 2005-02-10 • TAK
Earliest priority: 2003-08-07 • Earliest publication

5. **Motorcycle** with **airbag** system
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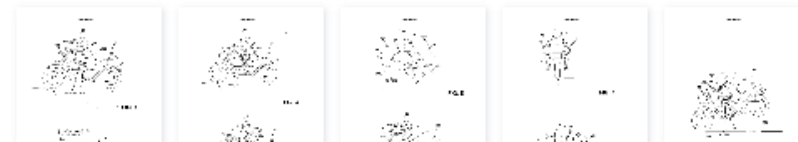
1. **Airbag** apparatus, **motorbike** with **airbag** apparatus



2. **Motorcycle** **airbag** system and **motorcycle**



3. **Airbag** apparatus, **motorcycle** with **airbag** apparatus



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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) 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).

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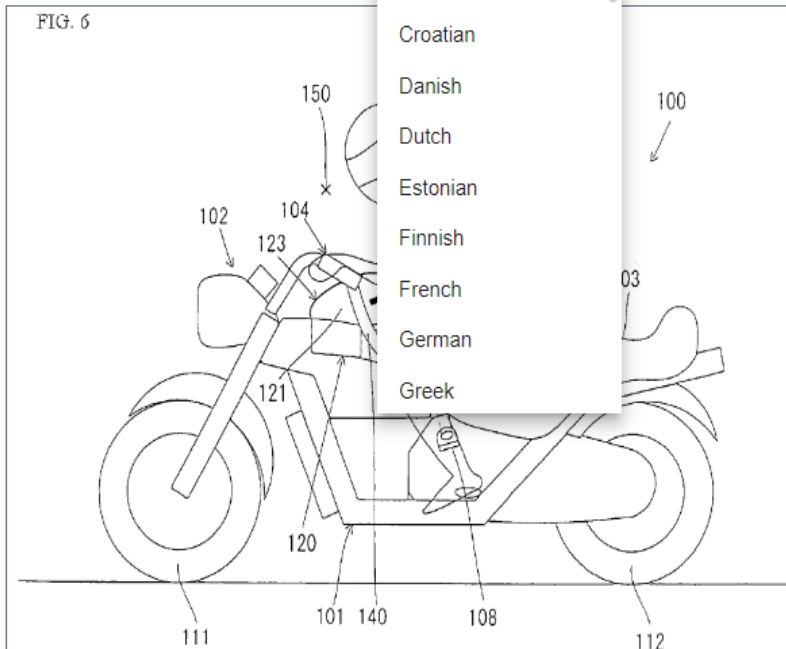
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FIG. 6





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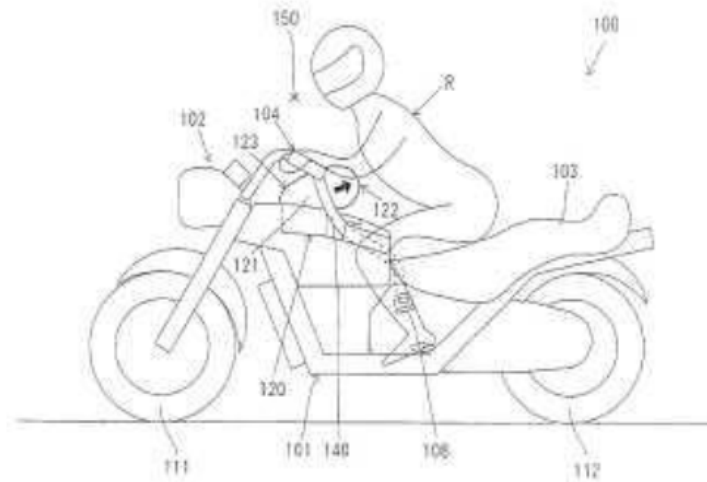
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ANOTACE EP1813517A1

[0001]

Za účelem poskytnutí techniky účinné pro zlepšení zadržovacího výkonu airbagu (121) v motocyklovém airbagovém systému (120), který má být namontován na motocykl (100), je airbagový systém (120) namontován na motocykl (100).) omezuje rozvinutí airbagu (121) směrem k hlavě jezdce v rané fázi nafouknutí airbagu (121) v případě čelního nárazu motocyklu (100) pomocí popruhu (140), který upevňuje airbag (121) k motocyklu (100).

FIG. 6



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☆ [EP1813517A1](#) **Motorcycle airbag system and motorcycle**[Available in](#) [Patent Translate](#) [?](#) [?](#) [?](#)[Bibliographic data](#) [Description](#) [Claims](#) [Drawings](#) [Original document](#) [Citations](#) [Legal events](#) [Patent family](#)CPC [?](#)**B62J27/20 (EP,US);** B60R2021/0088 (EP,US); B60R2021/23316 (EP,US);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**

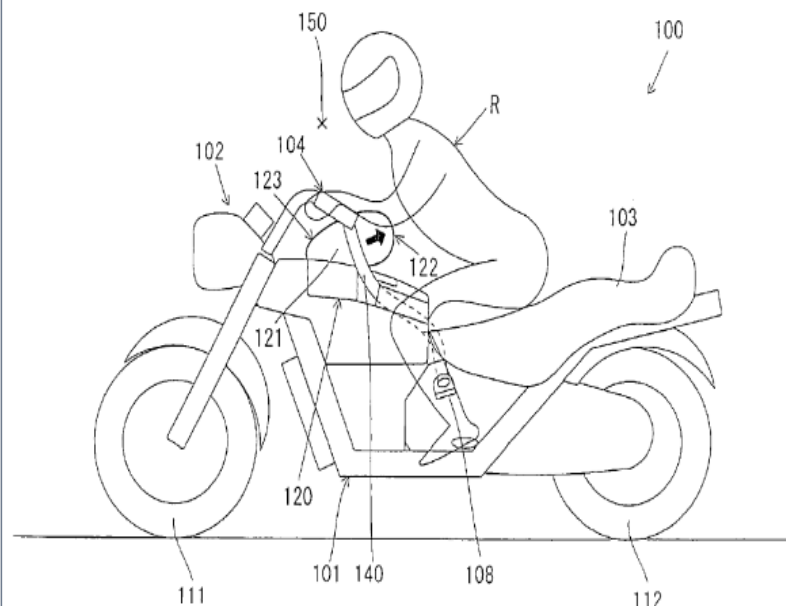
Abstract

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) 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.

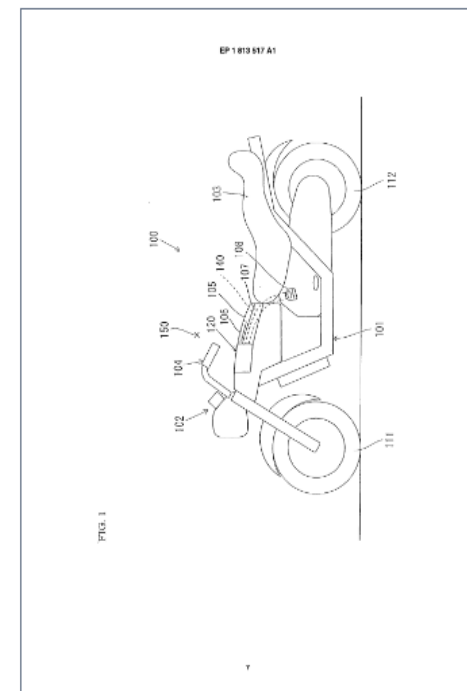
[Disclosure of the Invention][Problems to be Solved by the Invention]

[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]

[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



1. 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;

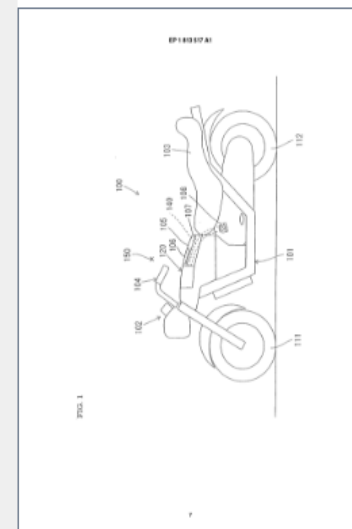
a gas supply section for supplying the airbag-inflation gas generated by the inflator (124) to the airbag (121);

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 deployment of the airbag (121) toward the rider's head in the early stage of the deployment of the airbag (121); and

the airbag (121) thus first deploys a rider's-chest restraint portion (122b) toward the rider's chest to push the rider's chest with the rider's-chest restraint portion (122b), thereby raising the upper body of the rider (R), and then deploys a rider's-head restraint portion (122a) toward the rider's head to thereby restrain the rider's head with the rider's-head restraint portion (122a).



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FIG. 1

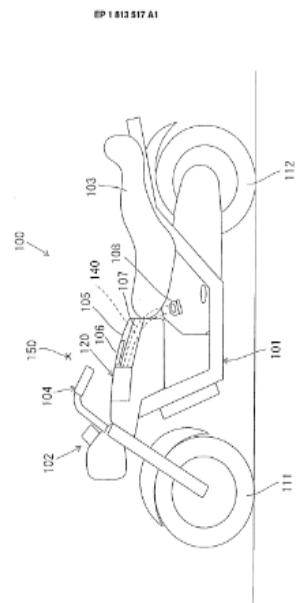


FIG. 2

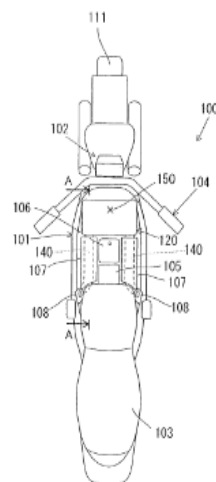


FIG. 3

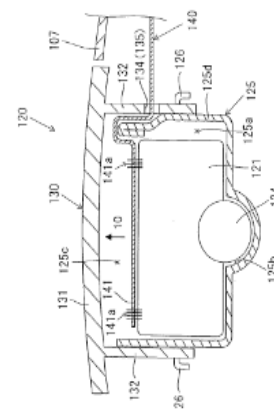
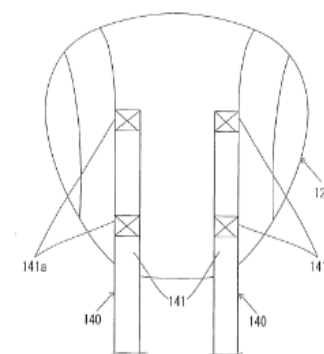


FIG. 4



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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:
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(71) Applicant: **TAKATA CORPORATION**
Minato-ku,
Tokyo 106-8510 (JP)(72) Inventor: **Miyata, Yasuhito**
Tokyo 106-8510 (JP)(30) Priority: **25.01.2006 JP 2006016838**(74) Representative: **Banzer, Hans-Jörg et al**
Kraus & Weisert,

1

EP 1 813 517 A1

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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

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 rider restraint system of this invention to be able to restrain the rider in a head-on collision.



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Citation origin	Publication	Title	Earliest priority date	Publication date	Applicants	IPC	CPC
APP	EP1762475A2	Airbag apparatus for motorcycle	2005-09-07	2007-03-14	TAKATA CORP [JP]	B60R21/00, B60R21/20, B60R21/2338, B62J27/00	B60R21/2338 (EP,US), B62J27/20 (EP,US), B60R2021/0088 (EP,US), B60R2021/23386 (EP,US)
APP	EP1767445A2	Airbag apparatus and motorcycle having the same	2005-09-26	2007-03-28	TAKATA CORP [JP]	B62J27/00	B60R21/20 (EP,US), B62J27/20 (EP,US), B60R2021/0088 (EP,US)
SEA	DE102004016364A1	Motor cycle airbag arrangement has interior of airbag without choke points so gas flowing in can be distributed unchoked and uniformly, regions closer to the seat and to handlebars are inflated essentially simultaneously and continuously	2004-03-31	2005-11-24	BAYERISCHE MOTOREN WERKE AG [DE]	B60R21/16, B62J27/00, B60R21/231, B60R21/00	B60R21/16 (EP), B60R21/2338 (EP,US), B62J27/20 (EP,US), B60R2021/0088 (EP)

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8. > EP1762475A2 Airbag apparatus for motorcycle

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CN1927642A	CN200610151781A	Airbag apparatus and motorcycle having same	2007-03-14	TAKATA CORP [JP]
CN1927642B	CN200610151781A	Airbag apparatus and motorcycle having same	2012-01-25	TAKATA CORP
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JP2007069780A	JP2005259977A	AIR BAG DEVICE AND MOTORCYCLE WITH AIR BAG DEVICE	2007-03-22	TAKATA CORP
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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.
Date of filing
Priority claimed

: 1813517
: 15.01.07
: 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.



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« B60R19/00 B60R22/00 »

Classification symbol	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)
▲ ★★★★★ ☐ B62J 27/00	Safety equipment
▲ ★★★★★ ☐ B60Y 2304/00	Optimising design; Manufacturing; Testing
▲ ★★★★★ ☐ A61B 5/00	Measuring for diagnostic purposes (radiation diagnosis A61B 6/00 ; diagnosis by ultrasonic, sonic or infrasonic waves A61B 8/00); Identification of persons
▲ ★★★★★ ☐ B62D 1/00	Steering controls, i.e. means for initiating a change of direction of the vehicle
▲ ★★★★★ ☐ B64C 39/00	Aircraft not otherwise provided for
▲ ★★★★★ ☐ 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)
▲ ★★★★★ ☐ B60R 13/00	Elements for body-finishing, identifying, or decorating; Arrangements or adaptations for advertising purposes

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☐ 1. OVERHEAD AIRBAG ASSEMBLIES

WO2018142382A1 • 2018-08-09 • AUTOLIV ASP INC ...

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. Airbag Deployment Control Based on Deployment Con...

US2008067792A1 (B2) • 2008-03-20 • AUTOMOTIVE TEC...

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

Method for controlling flow of gas into an airbag includes generating gas, directing the gas into the airbag, and controlling the flow of gas into the airbag based on conditions at the time of deployment such that the airbag

☐ 3. Aspirated Inflators

US2008272580A1 (B2) • 2008-11-06 • AUTOMOTIVE TEC...

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

Airbag inflator system includes an inflatable airbag, a flexible housing, and a gas generating system for generating gas which is directed from the housing to the interior of the airbag. The housing may be made by an

☐ 4. Restraint System

GB2562887A • 2018-11-28 • FORD GLOBAL TECH LLC [US]

Earliest priority: 2017-04-05 • **Earliest publication:** 2018-08-21

A restraint system comprising an instrument panel (42, Fig.1) and an

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Title = → Group

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☐ 1. **Airbag** system for **motorbike**
DE19913906A1 (B4) • 1999-10-07 • HONDA MOTOR ...

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

☐ 2. **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

☐ 3. **Airbag device for motor cycle**
DE19729627A1 (B4) • 1998-01-29 • HONDA MOTOR CO L...

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

☐ 4. **Airbag apparatus motorcycle with airbag apparatus**
EP1721818A2 (A3) • 2006-11-15 • TAKATA CORP [JP]

Earliest priority: 2005-05-09 • **Earliest publication:** 2006-11-09

In order to provide a technique for constituting an airbag (122) in which

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Applicants  HONDA MOTOR CO LTD [JP] +

Inventors HOSONO SOICHIRO [JP]; HAYASHI HIDEKI [JP]; OTAATSUO [JP] +

Classifications ?

IPC  **B60R21/16; B62J27/00; B60R21/00; B60R21/01; B60R21/0132; (IPC1-7): B60R21/16; B60R21/32; B62J27/00;**

CPC B60R21/0132 (EP,US); B60R21/16 (EP); B62J27/20 (EP,US); B60R2021/0088 (EP,US); B60R2021/01006 (EP);

Priorities JP8365698A-1998-03-30

Application ? DE19913906A-1999-03-26

Publication DE19913906A1·1999-10-07

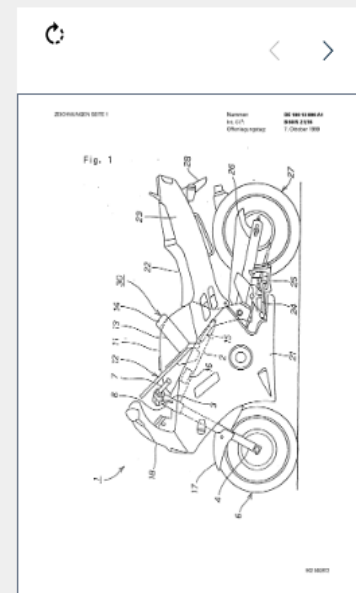
Published as DE19913906A1; DE19913906B4; JP4052531B2; JPH11278342A

DE EN

Airbag system for motorbike

Abstract

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 section of a front fork (4) attached to the motorbike and supporting a front wheel.



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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 behavior and deployment attitude of an airbag.
[Solution] The present invention is an airbag device installed in a

★ WO2021140922A1 MOTORCYCLE AIRBAG DEVICEPatent Translate

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[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

ENFRJAMOTORCYCLE AIRBAG DEVICEAbstract

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Most recent event  21.12.2022 New entry: Renewal fee paid

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12.07.2022	English Translation of International Preliminary Report on Patentability Chapter I	-
11.07.2022	FTEWO	-
11.07.2022	English Translation of the Written Opinion of the International Search Authority	-
03.05.2022	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))	-
03.08.2021	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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