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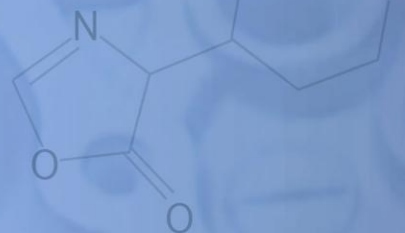
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OZNAČENÍ PŮVODU
A ZEMĚPISNÁ OZNAČENÍ

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Hana Churáčková



březen 2026



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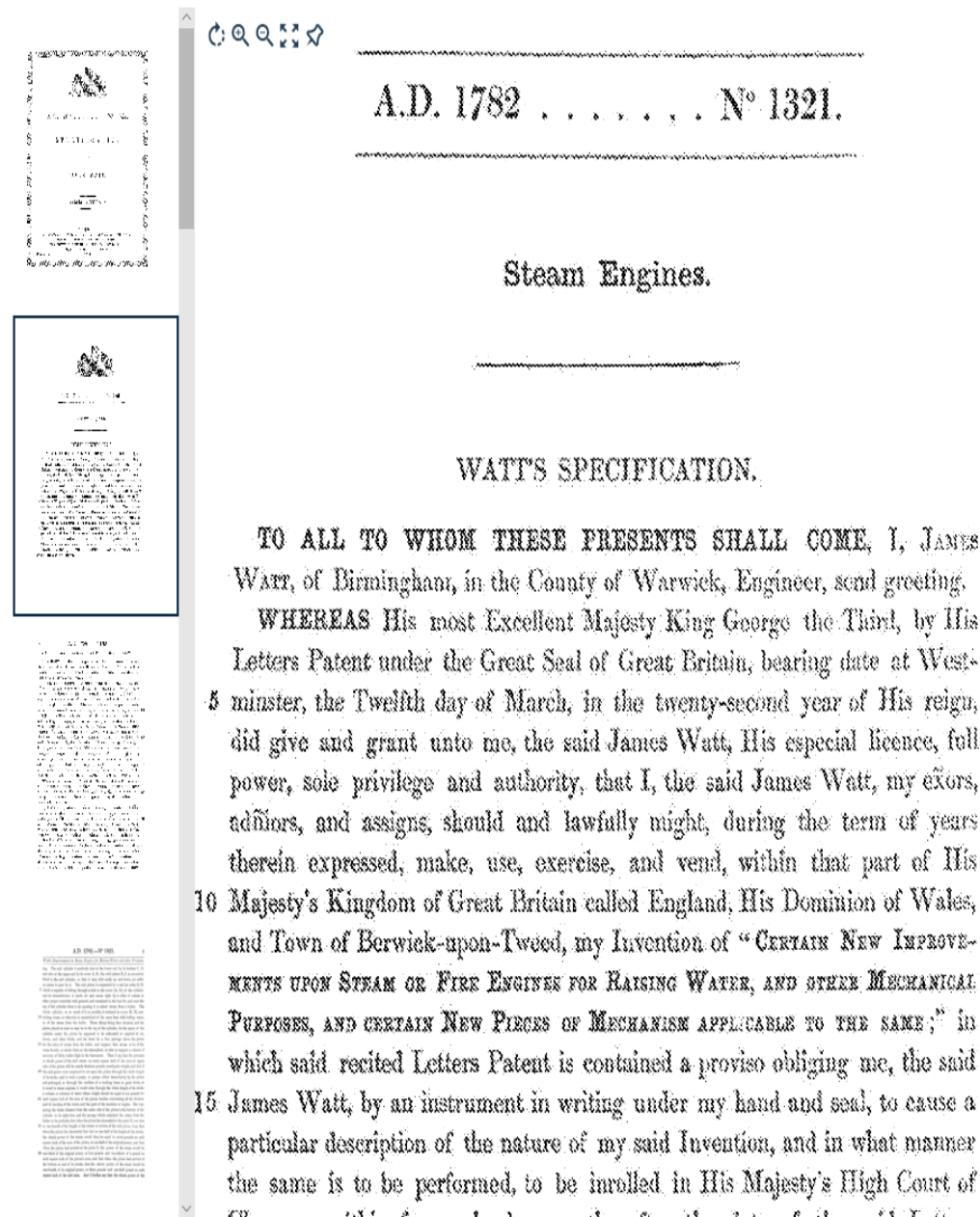
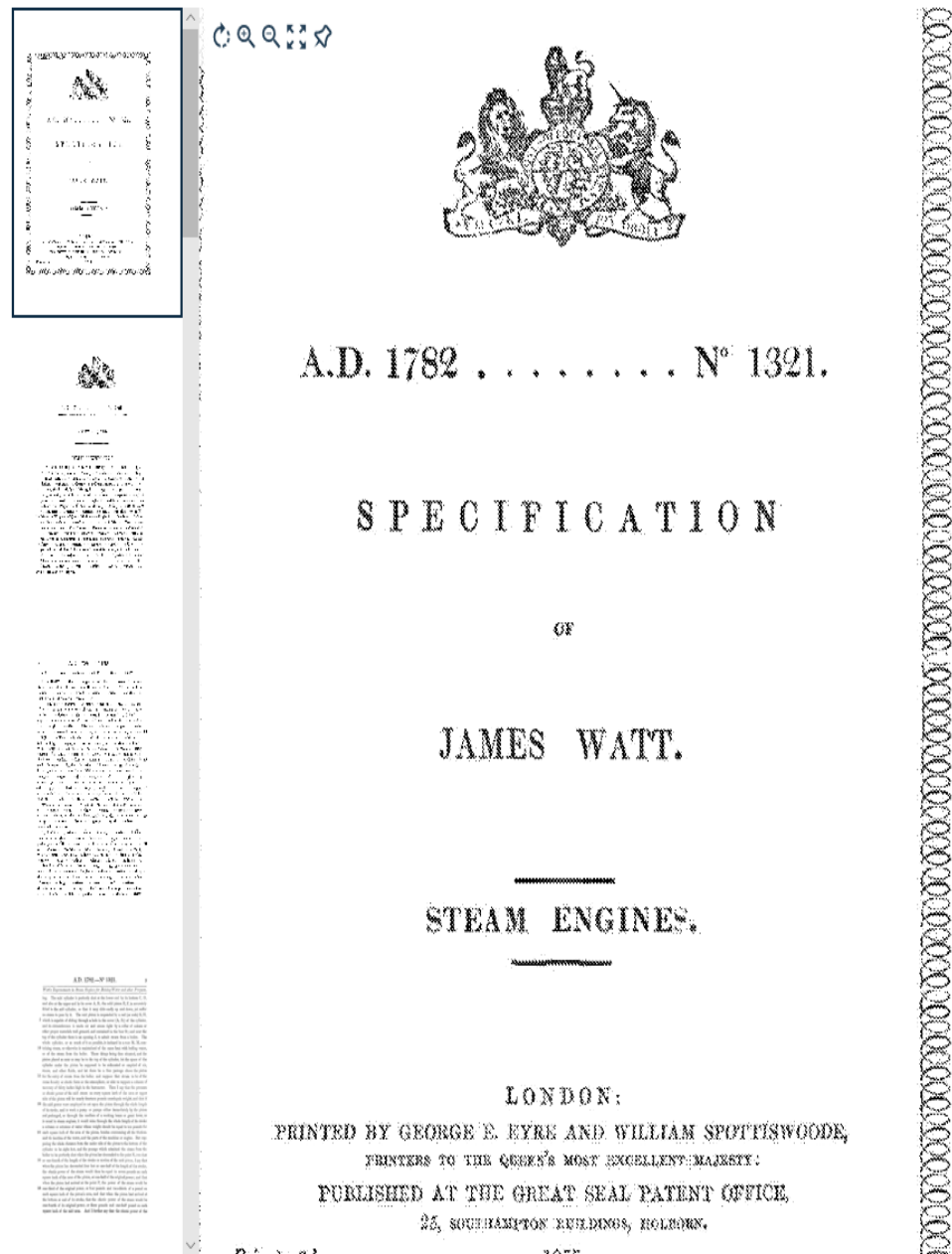
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- Informace o vynálezech a technických řešeních od 18. století až do současnosti
- Více než 160 mil. patentových dokumentů (patentové přihlášky, patenty, užité vzory od r. 1782) z celého světa





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



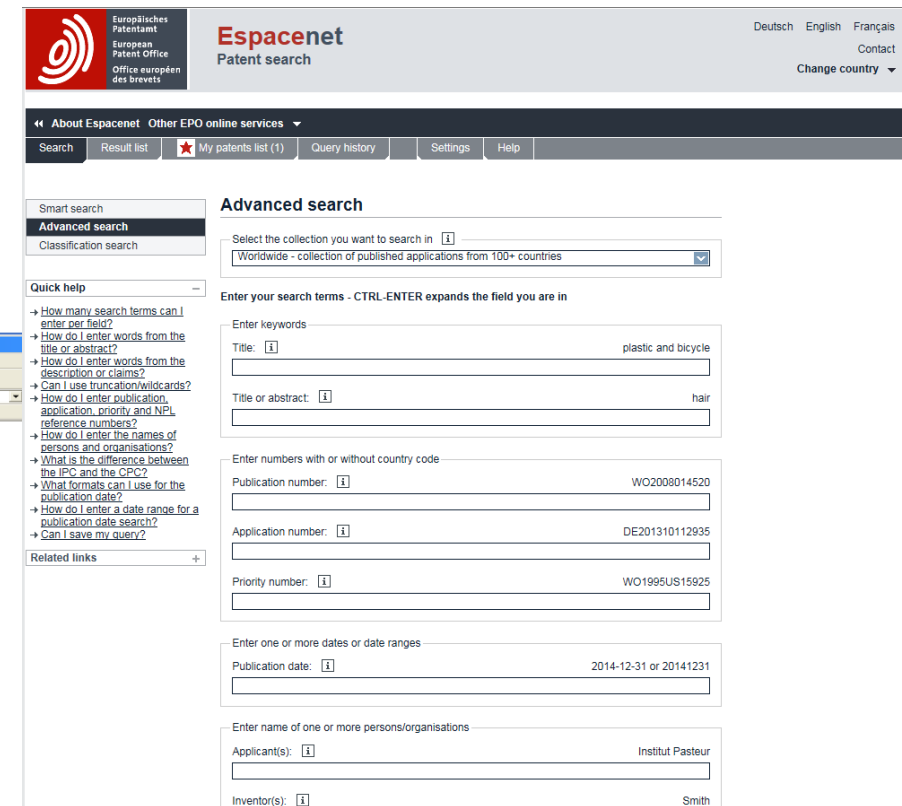
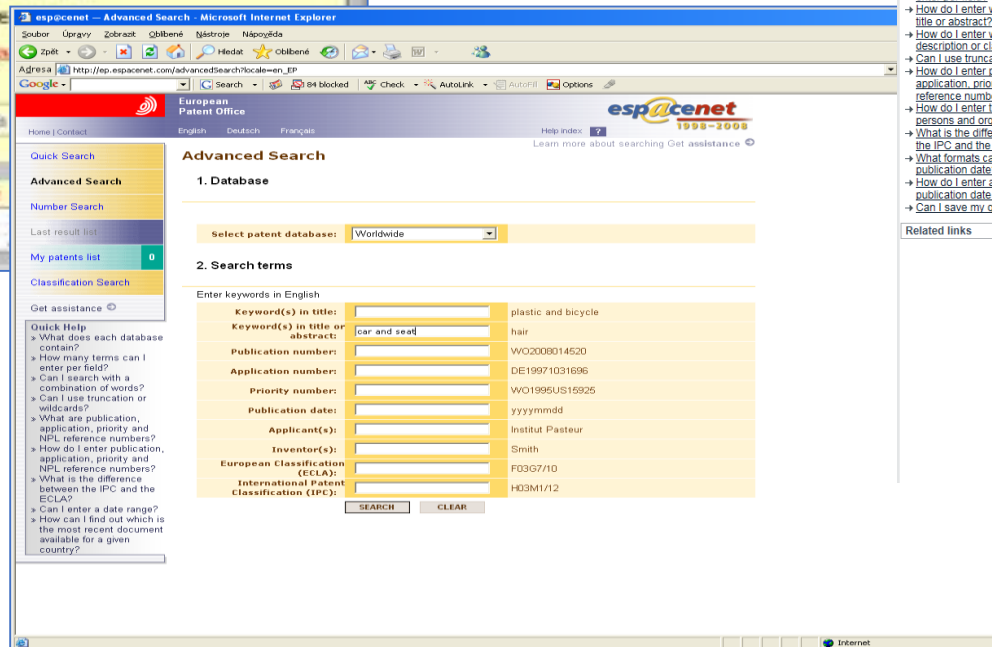
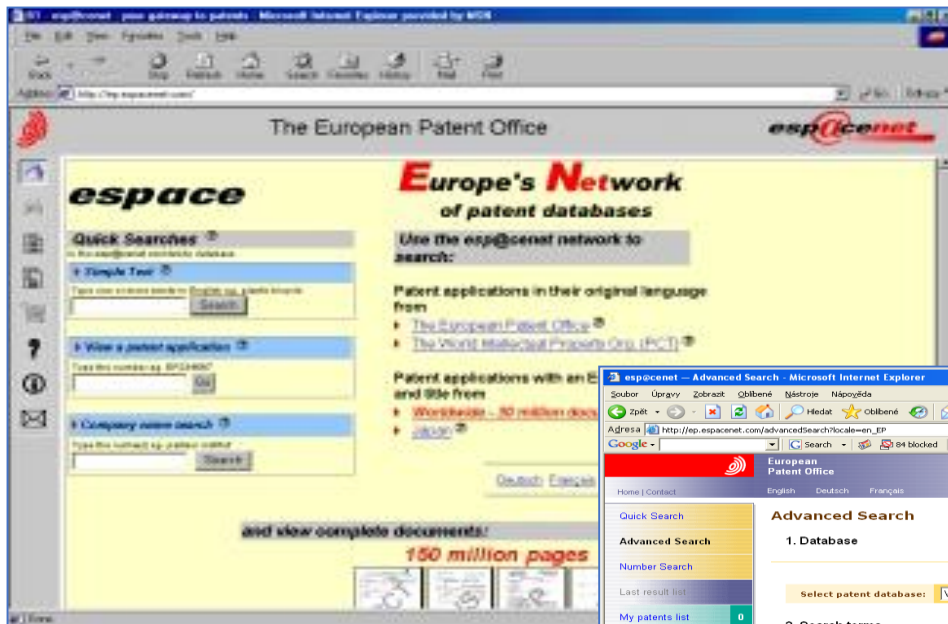
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- Vědci, výzkumní a vývojoví pracovníci, konstruktéři.....
- Podnikatelé, manažeři.....
- Patentoví examinátoři.....



Espacenet – 19. 10. 1998



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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.



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



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Results



Advanced search

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



Smart search

Truncation:

* - neomený počet znaků

? – 0 nebo jeden znak

- právě jeden znak

Quick access

Pocket guide

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

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All

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Relevance



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☐ 1. **Airbag** Apparatus And **Motorcycle** Having The ...
US2007052218A1 (B2) • 2007-03-08 • TAKATA CO...
Earliest priority: 2005-09-07 • Earliest publication: 2007-03...
...A technique is provided effective in smoothing the **airbag**
deploying motion of an **airbag** apparatus to be mounted to a
motorcycle. In one form, an **airbag** apparatus mounted to a

☐ 2. **Airbag** Apparatus And **Motorcycle** Having The ...
US2007052214A1 (B2) • 2007-03-08 • TAKATA CO...
Earliest priority: 2005-09-07 • Earliest publication: 2007-03...
...A technique is provided that is effective in smoothing the
airbag deploying motion of an **airbag** apparatus to be mounted to
a **motorcycle**. In one form, an **airbag** apparatus mounted to a

☐ 3. **Airbag** Apparatus And **Motorcycle** Having The ...
US2007052215A1 (B2) • 2007-03-08 • TAKATA CO...
Earliest priority: 2005-09-07 • Earliest publication: 2007-03...
... prefolded **airbag** of an **airbag** apparatus mounted to
motorcycles. In a first form, an **airbag** apparatus mounted to a
motorcycle...

☐ 4. **Airbag** System and **Motorcycle** with **Airbag** Sys...
US2007170702A1 (B2) • 2007-07-26 • TAKATA CO...
Earliest priority: 2006-01-25 • Earliest publication: 2007-07...
A technique is provided effective in improving rider restraint
performance of an **airbag** in an **airbag** system to be mounted to
a **motorcycle**. In one form, an **airbag** system to be mounted to a

☐ 5. **Airbag** System and **Motorcycle** with **Airbag** Sys...

airbag*



motorbike*



motorcycle*



motor cycle



Countries (family)

Languages (family)

Earliest publication date (family)

Earliest priority date

IPC main groups

IPC subgroups

CPC main groups

CPC subgroups

CPC assigning offices

Applicants

Inventors

Applicants - country

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1. Airbag Apparatus And Motorcycle Having Th...
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Earliest priority: 2005-09-07 • Earliest publication: 2007-...

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deploying motion of an airbag apparatus to be mounted to a
motorcycle. In one form, an airbag apparatus mounted to a

2. Airbag Apparatus And Motorcycle Having The ...
US2007052214A1 (B2) • 2007-03-08 • TAKATA CO...
Earliest priority: 2005-09-07 • Earliest publication: 2007-03-...
...A technique is provided that is effective in smoothing the
airbag deploying motion of an airbag apparatus to be mounted to
a motorcycle. In one form, an airbag apparatus mounted to a

3. Airbag Apparatus And Motorcycle Having The ...
US2007052215A1 (B2) • 2007-03-08 • TAKATA CO...
Earliest priority: 2005-09-07 • Earliest publication: 2007-03-...
... prefolded airbag of an airbag apparatus mounted to
motorcycles. In a first form, an airbag apparatus mounted to a
motorcycle...

4. Airbag System and Motorcycle with Airbag Sys...
US2007170702A1 (B2) • 2007-07-26 • TAKATA CO...
Earliest priority: 2006-01-25 • Earliest publication: 2007-07-...
A technique is provided effective in improving rider restraint
performance of an airbag in an airbag system to be mounted to
a motorcycle. In one form, an airbag system to be mounted to a

airbag* ×

motorbike* ×

motorcycle* ×

motor cycle

Countries (family) ▾

Languages (family) ▾

Earliest publication date (family) ▾

Earliest priority date ▾

IPC main groups ▾

IPC subgroups ▾

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☐ (0 patents selected) Select the first 20 results☐ 1. Airbag apparatus, motorcycle with airbag ap...
US2004051281A1 (B2) • 2004-03-18 • TAKAT...

Earliest priority: 2002-06-27 • Earliest publication: 2004-...

There is provided an airbag apparatus having an airbag and mounted to a motorcycle, wherein the inflation of the airbag in an extending direction of a tether is restricted with the tether

☐ 2. Airbag apparatus and motorcycle provided wit...
US2007085306A1 (B2) • 2007-04-19 • TAKATA CO...

Earliest priority: 2005-10-17 • Earliest publication: 2007-04-...

An technique is provided for suppressing external force received by a connector from a housing body side, in an airbag apparatus for use in a motorcycle, which has a construction housing an

☐ 3. Airbag System and Motorcycle with Airbag Sys...
US2007170702A1 (B2) • 2007-07-26 • TAKATA CO...

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

A technique is provided effective in improving rider restraint performance of an airbag in an airbag system to be mounted to a motorcycle. In one form, an airbag system to be mounted to a

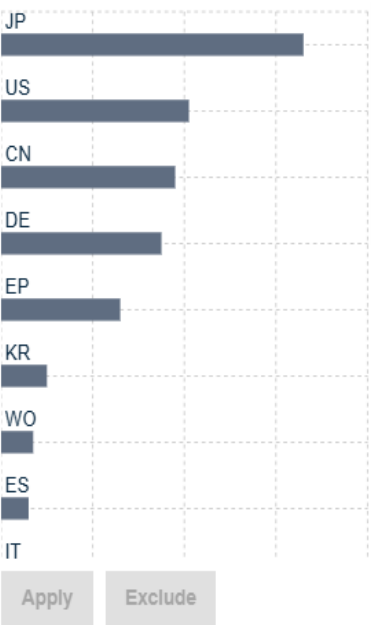
☐ 4. Airbag Apparatus, Motorcycle with Airbag App...
US2006249936A1 (B2) • 2006-11-09 • TAKATA CO...

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

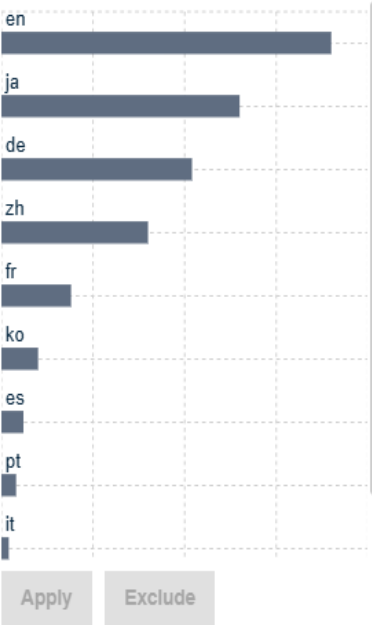
An airbag apparatus which can achieve thorough protection of a rider in case of a vehicle accident is provided. In one form, an airbag apparatus to be mounted to a motorcycle includes an

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

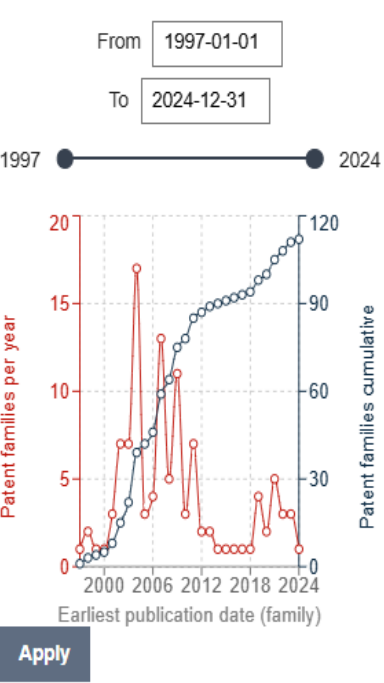
Countries (family)



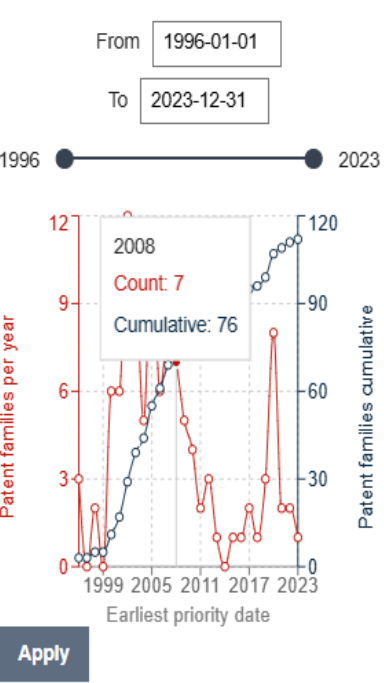
Languages (family)



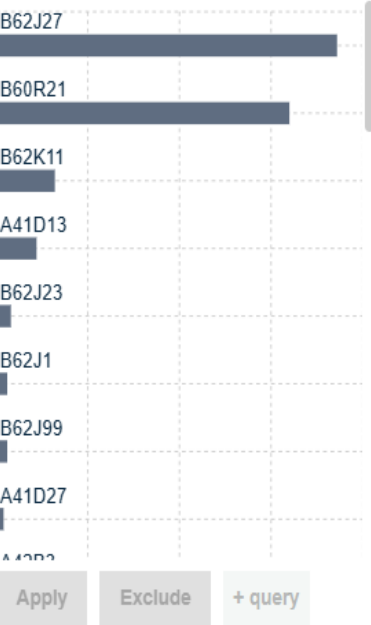
Earliest publication date (family)



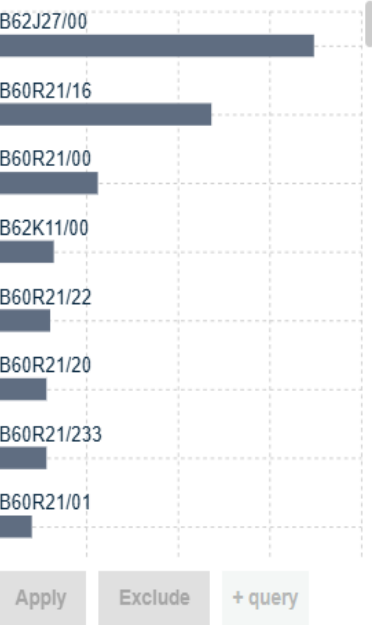
Earliest priority date



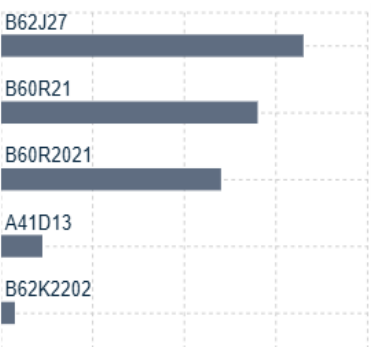
IPC main groups



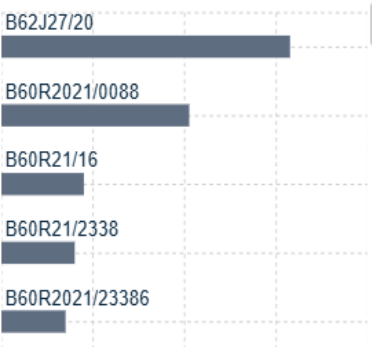
IPC subgroups



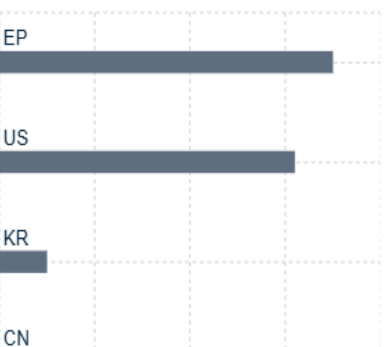
CPC main groups



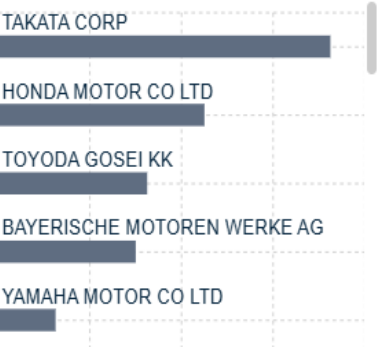
CPC subgroups



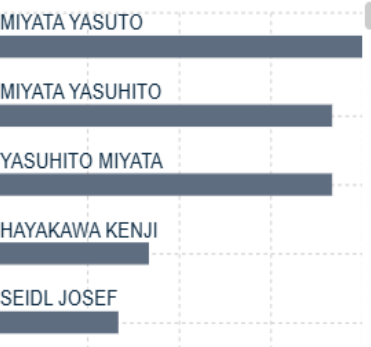
CPC assigning offices



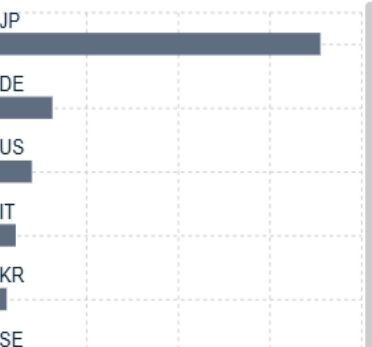
Applicants



Inventors



Applicants - country



Countries (family)



↑↓ ? ↑↓ ?

☒ JP	66
☒ US	41
☐ CN	38
☒ DE	35
☒ EP	26
☐ KR	10
☒ WO	7
☐ ES	6

Apply

Exclude

↑↓ ? ↑↓ ?

☒ TAKATA CORP	29
☒ HONDA MOTOR CO LTD	18
☒ TOYODA GOSEI KK	13
☒ BAYERISCHE MOTOREN WERKE AG	12
☒ YAMAHA MOTOR CO LTD	5
☐ TAKATA PETRI AG	3
☐ AUTOLIV DEV	2
☐ BOSCH GMBH DOREDT	2

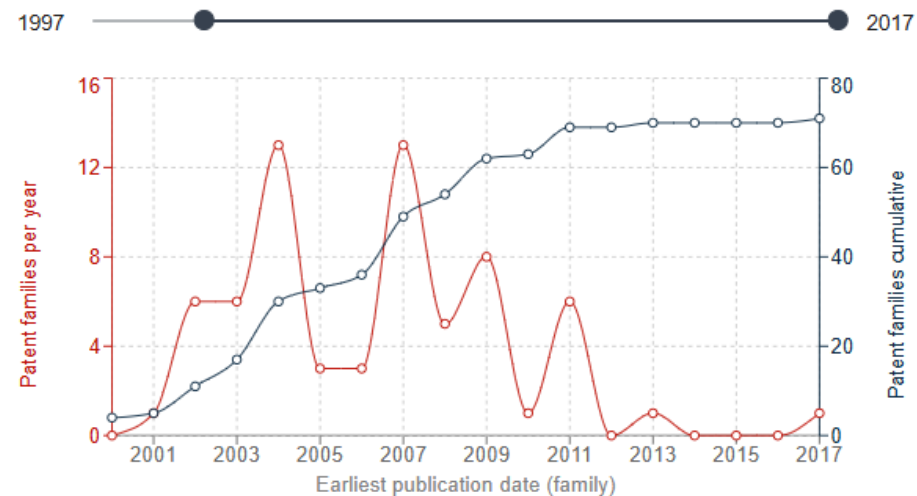
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Earliest publication date (family)

From 2000-01-01 To 2017-12-31



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IPC main groups

↑↓ ? ↑↓ ?

- ☒ B62J27
- ☒ B60R21
- ☐ B62K11
- ☐ B62J23
- ☐ B60G17
- ☐ B60R22
- ☐ B62J
- ☐ B62J1

Apply

Exclude

↑↓ ?

67
57
15

IPC main groups

B62J27

B60R21

B62K11

B62J23

B60G17

B60R22

B62J

B62J1

B62J17

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1. Airbag apparatus, motorcycle with airbag ap...

US2004051281A1 (B2) • 2004-03-18 • TAKAT...

Earliest priority: 2002-06-27 • Earliest publication: 2004-...

There is provided an airbag apparatus having an airbag and mounted to a motorcycle, wherein the inflation of the airbag in an extending direction of a tether is restricted with the tether

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Earliest priority: 2005-10-17 • Earliest publication: 2007-04-...

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US2007170702A1 (B2) • 2007-07-26 • TAKATA CO...

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

A technique is provided effective in improving rider restraint performance of an airbag in an airbag system to be mounted to a motorcycle. In one form, an airbag system to be mounted to a

4. Airbag Apparatus, Motorcycle with Airbag App...



Home > Results > EP1362778A1

Query language: en / de / fr

Filters: Countries (family): JP OR US OR DE OR EP OR WO X Applicants: TAKATA CORP OR HONDA MOTOR CO LTD OR TOYODA GOSEI KK OR BAYERISCHE MOTOREN WERKE AG OR YAMAHA MOTOR CO LTD X IPC main groups: B62J27 OR B60R21 X

Earliest priority date: 2000-01-01 — 2016-12-31 X Clear

67 results found

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(0 patents selected) Select the first 67 results

I here is provided an airbag apparatus having an airbag and mounted to a motorcycle, wherein the inflation of the airbag in an extending direction of a tether is restricted with the tether

54. Sensor arrangement for triggering a motorcycle...

EP1375322A2 (A3) • 2004-01-02 • BAYERISCHE M...

Earliest priority: 2002-06-25 • Earliest publication: 2004-01-02

A sensor arrangement for activating an air bag on a motor cycle comprises transmitting force on the front wheel fork (2) through two components (3,4) at different heights. Normally the upper one

55. Air bag apparatus for motorcycle, method of m...

EP1362778A1 (B1) • 2003-11-19 • TAKATA CORP [JP]

Earliest priority: 2002-05-15 • Earliest publication: 2003-11-19

In order to provide a useful technology for smoothly expanding an air bag in an air bag apparatus provided on a motorcycle, in an air bag apparatus (111) being provided on a motorcycle (100), an air

56. Compact vehicle used as a motorcycle compri...

DE10308601A1 (B4) • 2003-09-18 • HONDA MOTO...

Earliest priority: 2002-03-01 • Earliest publication: 2003-09-10

Compact vehicle comprises at least one vehicle component which comes into contact with an inflated airbag (19) and is arranged in

☆ EP1362778A1 Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

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 B62J27/00; B60R21/16; B60R21/237; (IPC1-7): B60R21/16; B62J27/00;

CPC B62J27/20 (EP,US); B60R21/237 (EP,US);

Priorities JP2002140428A 2002-05-15

Application EP03008855A 2003-04-28

Publication EP1362778A1 2003-11-19

Published as CN100422032C; CN1458026A; EP1362778A1; EP1362778B1; JP2003327183A; US2003214122A1; US7404570B2

EN DE FR

Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

Abstract

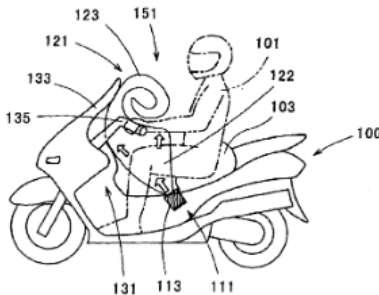
airbag system (120) to be mounted to a motorcycle (100), an airbag system (120) to be mounted to a motorcycle (100) restricts the deployment of the airbag (121) toward the rider's head in an early stage of the inflation of the airbag (121) in the event of a head-on collision of the motorcycle (100) using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

Available in Patent Translate



Front-page drawing from EP1362778A1

FIG. 4



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]

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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
EP1813519A2 (A3,B1) • 2007-08-01 • TAK/
Earliest priority: 2006-01-25 • Earliest publication

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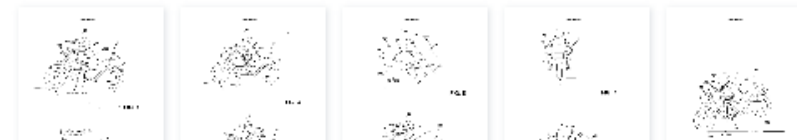
1. **Airbag** apparatus, **motorbike** with **airbag** apparatus



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



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



Text only

Text and thumbnails

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☆ EP1362778A1 Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

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 **B62J27/00**; B60R21/16; B60R21/237; (IPC1-7): B60R21/16; B62J27/00;

CPC **B62J27/20 (EP,US)**; B60R21/237 (EP,US);

Priorities JP2002140428A 2002-05-15

Application EP03008855A 2003-04-28

Publication EP1362778A1 2003-11-19

Published as CN100422032C; CN1458026A; EP1362778A1; EP1362778B1; JP2003327183A; US2003214122A1; US7404570B2

EN DE FR

Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

Abstract

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FIG. 4

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Oznámení

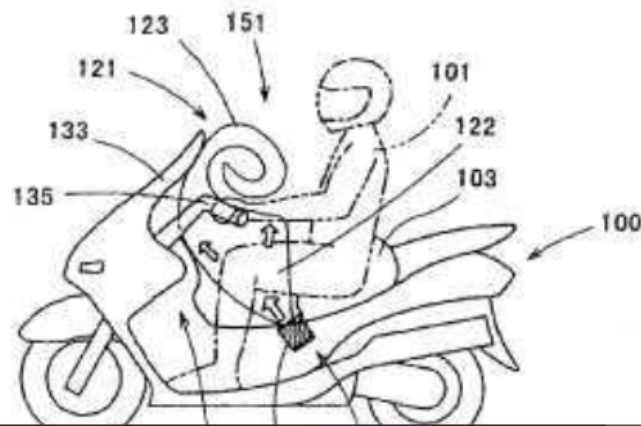
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ANOTACE EP1362778A1

[0001]

Aby byla poskytnuta užitečná technologie pro plynulé roztahování airbagu v přístroji airbagu na motocyklu, v přístroji airbagu (111) na motocyklu (100), airbag (121) není omezen na být roztážen směrem k základní části (131) těla a je veden tak, aby byl roztážen směrem k oblasti ochrany jezdce (151) ve směru rozpínání poskytnutím airbagu (121), který je srolován a složen směrem ven z části (131) karoserie motocyklu (100) a umožňuje její roztahování a nafouknutí směrem k oblasti ochrany jezdce (151), která je vytvořena před jezdce motocyklu (101), a nad prvkem karoserie části (131) motocyklu (100) v případě čelního nárazu motocyklu.

FIG. 4



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Applicants TAKATA CORP [JP] +
Inventors MIYATA YASUHITO [JP] +

Classifications

IPC **B62J27/00**; B60R21/16; B60R21/237; (IPC1-7): B60R21/16; B62J27/00;

CPC **B62J27/20 (EP,US)**; B60R21/237 (EP,US);

Priorities JP2002140428A 2002-05-15

Application EP03008855A 2003-04-28

Publication **EP1362778A1** 2003-11-19

Published as **CN100422032C**; **CN1458026A**; **EP1362778A1**; **EP1362778B1**; **JP2003327183A**; **US2003214122A1**; **US7404570B2**

EN **DE** **FR**

Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

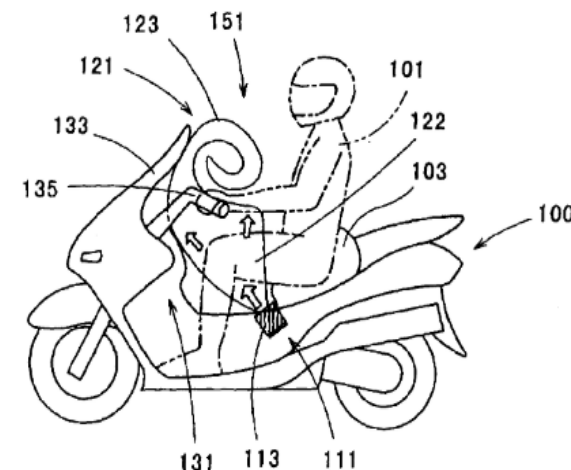
Abstract

In order to provide a useful technology for smoothly expanding an air bag in an air bag apparatus provided on a motorcycle, in an air bag apparatus (111) being provided on a motorcycle (100), an air bag (121) is restricted not to be expanded toward a body constituent part (131), and is guided to be expanded toward a rider protection region (151) in the expansion direction by providing the air bag (121) which is rolled and folded outwardly from the body constituent part (131) of the motorcycle (100), and allowing it to be expanded and inflated toward the rider protection region (151), which is formed in front of a motorcycle rider (101), and above the body constituent part (131) of the motorcycle (100) in the case of the forward collision of the motorcycle.



Front-page drawing from EP1362778A1

FIG. 4



☆ **EP1362778A1** Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

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[Detailed Description of the Invention][Technical Field of the Invention]

[0001] The present invention relates to construction technology of an air bag apparatus mounted on a motorcycle.

[Description of the Related Art]

[0002] A technology for protecting a rider on a motorcycle by mounting an air bag apparatus on a motorcycle is known. For example, Japanese Unexamined Patent Application Publication No. 2001-219885 discloses a scooter-type motorcycle and a technology for expanding and inflating an air bag located in the space between a body component member, such as a head pipe, and the seat on which the rider sits. The technology suggests the possibility of providing the air bag apparatus on the scooter-type motorcycle; however, further technological study on how much to expand the air bag inside the air bag apparatus generally provided on a motorcycle to protect the rider is necessary.

[Problems to be Solved by the Invention]

[0003] Accordingly, based on the above point, an object of the present invention in connection with an airbag apparatus provided on a motorcycle is to provide a useful technology for allowing an air bag to be smoothly expanded.

[Means for Solving the Problems]

[0004] According to the present invention, this object is achieved by an air bag apparatus as defined in claim 1, a method of manufacturing as defined in claims 5 and 6, respectively, and a motorcycle as defined in claim 7. The dependent claims define preferred and advantageous embodiments of the invention.

[0005] According to an aspect of the invention, an air bag apparatus provided on a motorcycle is provided. The air bag apparatus includes an air bag, which is expanded and inflated toward the rider protection region of the motorcycle in the case of a forward collision of the motorcycle. The rider protection region is defined as a region, which is formed in front of the motorcycle rider and above a body constituent part of the motorcycle.

[0006] Further, the air bag of the present invention is restricted so as not to expand toward the body constituent part, and is guided to expand toward the rider protection region in the expansion direction. Thereby it is insured to provide a structure in which an air bag is smoothly and surely expanded toward a region to protect a rider.

[0007] In the specification, the "motorcycle" includes a saddle-type vehicle, that is, broadly all types of vehicles which a rider sits astride a seat of them, and includes, for example, a two-wheeled vehicle having a fuel tank provided in front of a rider seat, a scooter-type two-wheeled vehicle having a space between a rider seat and a head pipe for supporting a handle, or the like. In addition to the two-wheeled vehicle, a broader meaning of "motorcycle" also includes a vehicle having three or more-wheel and which a rider sits astride (for example, a three-wheeled vehicle used to deliver pizzas, a three or four-wheeled buggy-type vehicle for traveling on roads in bad-condition), or a vehicle which is driven by sled or pedrails and which a rider sits astride such as a snowmobile. Furthermore, The "body constituent part" typically includes a fuel tank in front of the rider seat, a handle, a head pipe for supporting the handle, and an indicating instrument such as a speedometer provided in the middle of the handle. The present invention provides a structure for preventing



EP 1 362 778 A1

FIG. 1

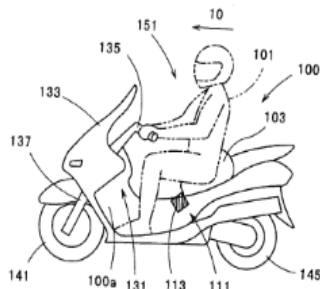
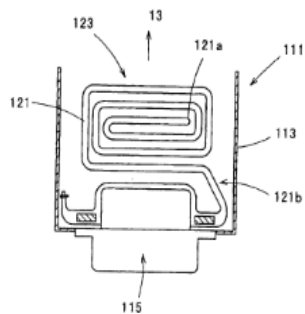


FIG. 2



☆ **EP1362778A1** Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

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Original claims Claims tree

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1. An air bag apparatus (111; 211; 311) for a motorcycle (100; 200; 300) provided on a motorcycle (100; 200; 300), the air bag apparatus (111; 211; 311) comprising:

an air bag (121; 221; 321) which is expanded and inflated toward a rider protection region (151) of the motorcycle (100; 200; 300), which is formed in front of a motorcycle rider (101) and above a body constituent part (131) of the motorcycle (100; 200; 300), in the case of a forward collision of the motorcycle (100; 200; 300),

wherein the air bag (121; 221; 321) is restricted so as not to expand toward the body constituent part (131), and is guided to expand toward the rider protection region (151) in an expansion direction (13).

2. The air bag apparatus (111; 211; 311) for a motorcycle (100; 200; 300) according to Claim 1, wherein the guiding of the expansion direction (13) of the air bag (121; 221; 321) is guided by expanding the air bag (121; 221; 321), which is rolled and folded outwardly from the body constituent part (131) of the motorcycle (100; 200; 300).

3. The air bag apparatus (211; 311) for a motorcycle (200; 300) according to Claim 1 or 2, wherein the guiding of the expansion direction (13) of the air bag (221; 321) is performed by expanding the air bag (221; 321), which is provided on the body constituent part (131) such that a bellows-shaped folding part (225; 325) is expanded toward the rider protection region (151).

4. The air bag apparatus (211; 311) for a motorcycle (200; 300) according to any one of claims 1 to 3, wherein the air bag (221; 321) comprises a roll-shaped folding part (223; 323) which is rolled and folded outwardly from the body constituent part (131), and a bellows-shaped folding part (225; 325) which is folded as the bellows-shape.

5. A method of manufacturing an air bag apparatus (111; 211; 311) provided on a motorcycle (100; 200; 300), the method comprising the step of arranging an air bag (121; 221; 321) which is rolled and folded outwardly from a body constituent part (131) to the motorcycle (100; 200; 300).

6. A method of manufacturing an air bag apparatus (211; 311) provided on a motorcycle (200; 300), the method comprising the step of forming in an air bag (221; 321) a roll-shaped folding part (223; 323), which is rolled and folded outwardly from a body constituent part (131), and a bellows-shaped folding part (225; 325), which is folded in the shape of bellows.

7. A motorcycle (100; 200; 300) with an air bag apparatus (111; 211; 311), which is configured such that an air bag (121; 221; 321) is expanded and inflated toward a rider protection region (151) of the motorcycle (100; 200; 300), which is formed in front of a motorcycle rider (101) and above a body constituent part (131) of the motorcycle (100; 200; 300), in the case of a forward collision of the motorcycle (100; 200; 300), wherein the air bag (121; 221; 321) is restricted so as not to expand toward the body constituent part (131), and is guided to expand toward the rider protection region (151) in an expansion direction (13).

FIG. 1

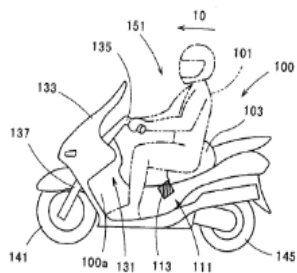
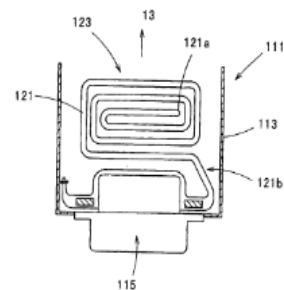


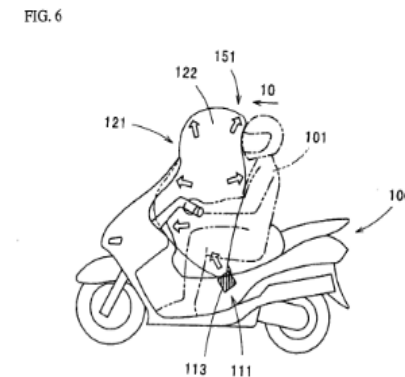
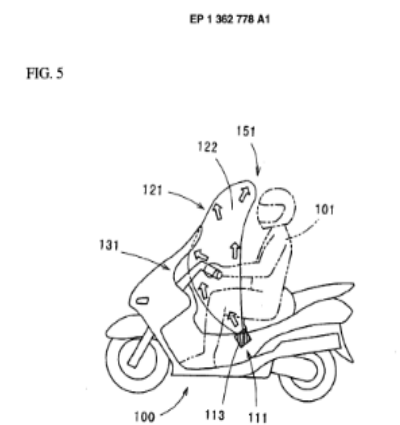
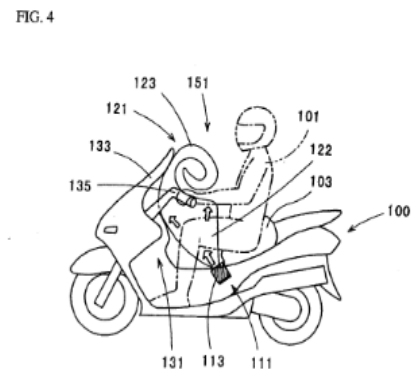
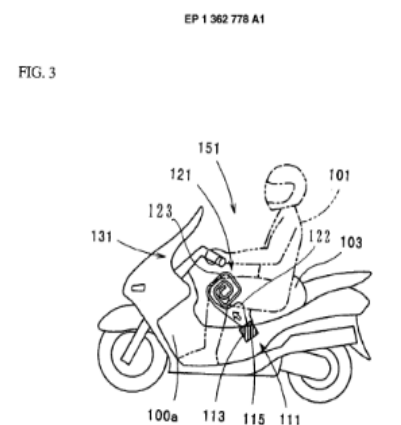
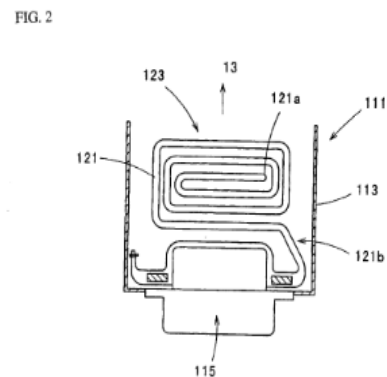
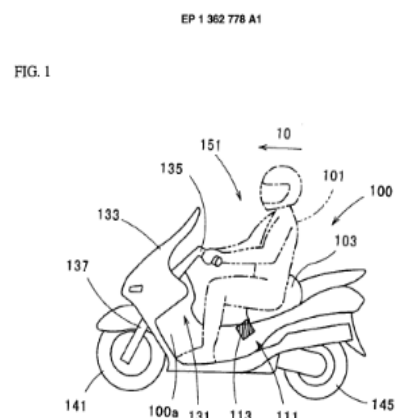
FIG. 2



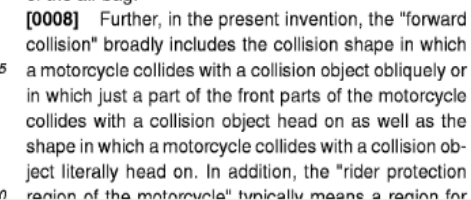
☆ **EP1362778A1** Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

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☆ EP1362778A1 Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

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Citation origin	Publication	Title	Earliest priority date	Publication date	Applicants	IPC	CPC
SEA	DE29917343U1	Sicherheitsvorrichtung an Motorrädern	1999-10-01	2000-01-05	MEDINA DUCH VICTOR [ES]	B60R21/16, B62J27/00, B60R19/20, B60R21/16, B62J27/00, B60R21/00	B60R19/205 (EP), B60R21/16 (EP,US), B62J27/20 (EP,US), B60R2021/0088 (EP)
SEA	US6299202B1	Passenger seat air bag system	1998-12-28	2001-10-09	TOYODA GOSEI KK [US]	B60R21/16, B60R21/16, B60R21/233, B60R21/2346, B60R21/237, B60R21/217	B60R21/233 (EP,US), B60R21/2346 (EP,US), B60R21/237 (EP,US), B60R21/2171 (EP,US)
SEA	GB1319375A	OCCUPANT RESTRAINT SYSTEM	1970-05-11	1973-06-06	GEN MOTORS CORP	B60R21/08, B60R21/16, B60R21/206, B60R21/231, B60R21/237	B60R21/206 (EP,US), B60R21/231 (EP,US), B60R21/237 (EP,US)
SEA	GB2369328A	An air-bag arrangement for mounting in the dashboard of a motor vehicle	2000-11-28	2002-05-29	AUTOLIV DEV [SE]	B60R21/16, B60R21/20, B60R21/16, B60R21/205, B60R21/231, B60R21/2338, B60R21/233, B60R21/237	B60R21/205 (EP), B60R21/231 (EP), B60R21/2338 (EP), B60R2021/23382 (EP), B60R21/237 (EP)
SEA	DE10004307A1	Airbag system for motor cycle or scooter has at least one frontal airbag for protecting frontal areas of driver's body and at least two side airbags for protecting lateral body areas	2000-02-01	2001-08-02	RAAB ANDREAS [DE]	B60R21/16, B62J27/00, B60R21/16, B62J27/00, B60R21/00	B60R21/16 (EP,US), B62J27/20 (EP,US), B60R2021/0088 (EP)

☆ EP1362778A1 Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus

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Event indicator ^	Category ^	Event description ^	Countries ^	Event date ^	Effective date ^	Details ^
EP PUA1	Q: Document publication	PUBLIC REFERENCE MADE UNDER ARTICLE 153(3) EPC TO A PUBLISHED INTERNATIONAL APPLICATION THAT HAS ENTERED THE EUROPEAN PHASE		2003-10-03		Further information ORIGINAL CODE: 0009012
EP AK	W: Other	DESIGNATED CONTRACTING STATES	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR	2003-11-19		Reference document Kind: A1
EP AX	W: Other	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	AL LT LV MK	2003-11-19		
EP 17P	D: Search and examination	REQUEST FOR EXAMINATION FILED		2004-06-16	2004-04-21	
EP AKX	U: Payment	DESIGNATION FEES PAID	DE FR GB SE	2004-08-11		
EP GRAP	D: Search and examination	DESPATCH OF COMMUNICATION OF INTENTION TO GRANT A PATENT		2007-11-16		Further information ORIGINAL CODE: EPIDOSNIGR1
EP GRAS	U: Payment	GRANT FEE PAID		2008-04-01		Further information ORIGINAL CODE: EPIDOSNIGR3
EP GRAA	F: IP right grant	(EXPECTED) GRANT		2008-04-04		Further information ORIGINAL CODE: 0009210
EP AK	W: Other	DESIGNATED CONTRACTING STATES	DE FR GB SE	2008-05-07		Reference document Kind: B1



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Simple family INPADOC family Latest legal events

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Publication ^	Application number ^	Title ^	Publication date ^	Applicants ^	Inventors ^
CN100422032C	CN03130957A	Air sac device for motorcycle and its producing method and niotorcycle with air sac device	2008-10-01	TAKATA CORP [JP]	YASUHIITO MIYATA [JP]
CN1458026A	CN03130957A	Air sac device for motorcycle and its producing method and niotorcycle with air sac device	2003-11-26	TAKATA CORP [JP]	YASUHIITO MIYATA [JP]
EP1362778A1	EP03008855A	Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus	2003-11-19	TAKATA CORP [JP]	MIYATA YASUHIITO [JP]
EP1362778B1	EP03008855A	Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus	2008-05-07	TAKATA CORP [JP]	MIYATA YASUHIITO [JP]
JP2003327183A	JP2002140428A	AIR BAG DEVICE FOR MOTORCYCLE, MANUFACTURING METHOD OF AIR BAG DEVICE FOR MOTORCYCLE AND MOTORCYCLE WITH AIR BAG DEVICE	2003-11-19	TAKATA CORP	MIYATA YASUTO
US2003214122A1	US43913503A	Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus	2003-11-20	TAKATA CORP [US]	MIYATA YASUHIITO [JP]
US7404570B2	US43913503A	Air bag apparatus for motorcycle, method of manufacturing air bag apparatus for motorcycle, and motorcycle with air bag apparatus	2008-07-29	TAKATA CORP [JP]	MIYATA YASUHIITO [JP]





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ALLEMAGNE

Date
10.04.08

Reference 13270EP /nh	Application No./Patent No. 03008855.3 - 1254 / 1362778
Applicant/Proprietor TAKATA CORPORATION	

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

Following examination of European patent application No. 03008855.3 a European patent with the title and the supporting documents indicated in the communication pursuant to Rule 71(3) EPC dated 20.11.07 is hereby granted in respect of the designated Contracting States.

Patent No.	: 1362778
Date of filing	: 28.04.03
Priority claimed	: 15.05.02/JPA 2002140428

Designated Contracting States and Proprietor(s)

: DE FR GB SE
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 08/19 of 07.05.08.

Examining Division

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

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airbag Search

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Symbol	Classification and description	
▲ ★★★★★	☐ Y02E 60/00	Enabling technologies; Technologies with a potential or indirect contribution to GHG emissions mitigation
▲ ★★★★★	☐ Y02A 50/00	in human health protection, e.g. against extreme weather
▲ ★★★★★	☐ Y02P 70/00	Climate change mitigation technologies in the production process for final industrial or consumer products
▲ ★★★★★	☐ A61H 9/00	Pneumatic or hydraulic massage
▲ ★★★★★	☒ 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 ; 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)

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☐ 1. OVERHEAD AIRBAG ASSEMBLIES

US10246043B2 (A1)  • 2019-04-02  • AUTOLIV ...

Earliest priority: 2017-02-03  • **Earliest publication:** 2018...

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

☐ 2. Knee bolster airbag system

US2004256842A1 • 2004-12-23 • BREED DAVID S.

Earliest priority: 1994-05-23 • **Earliest publication:** 2004-12...

A knee protection airbag for protecting the knees of a vehicular occupant. The airbag is inflated from a storage position to a deployed position to substantially fill a space between the knees

☐ 3. Aspirated Inflators

US2008272580A1 (B2) • 2008-11-06 • AUTOMOTI...

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

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

☐ 4. Inflator system

US2007228703A1 (B2) • 2007-10-04 • AUTOMOTI...

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



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☐ 1. **AIRBAG** SYSTEM FOR **MOTORCYCLE** D...
US2012073035A1 (B2) • 2012-03-29 • MAZZA...

Earliest priority: 2009-06-05 • Earliest publication: 2010...

A garment which comprises an inflatable protective device able to expand from a rest condition, wherein it's in a deflated status, to a working condition, wherein it's in an inflated status, inflation

☐ 2. **Airbag** Apparatus, **Motorcycle** with **Airbag** App...
US2006249936A1 (B2) • 2006-11-09 • TAKATA CO...

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

An airbag apparatus which can achieve thorough protection of a rider in case of a vehicle accident is provided. In one form, an airbag apparatus to be mounted to a motorcycle includes an

☐ 3. **Airbag** System and **Motorcycle** with **Airbag** Sy...
US2007170702A1 (B2) • 2007-07-26 • TAKATA CO...

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

A technique is provided effective in improving rider restraint performance of an airbag in an airbag system to be mounted to a motorcycle. In one form, an airbag system to be mounted to a

☐ 4. **Airbag** Apparatus, **Motorcycle** with **Airbag** App...
US2006249937A1 (B2) • 2006-11-09 • TAKATA CO...

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



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1. Airbag shock absorber for motorcycle
CN221610462U • 2024-08-27 • CHONGQING ...

Earliest priority: 2023-10-20 • Earliest publication: 2024-...
The utility model provides an air bag shock absorber for a motorcycle, which comprises a shock absorber main body, an oil pipe and an air bag device, one end of the oil pipe is arranged

2. METHOD AND DEVICE FOR DETECTING A ...
EP4385832A1 • 2024-06-19 • BOSCH GMBH ROB...
Earliest priority: 2022-12-14 • Earliest publication: 2024-06-...
Verfahren (100) zum Erkennen einer Kollision eines Kraftrads (1) mit einem starren Objekt (2), wobei eine Kollision in Abhängigkeit von einem Geschwindigkeitsgradienten eines

3. Airbag type motorcycle riding protection suit
CN219306091U • 2023-07-07 • HUNAN INST ENG...
Earliest priority: 2022-07-27 • Earliest publication: 2023-07-...
The air bag type motorcycle driver riding protection suit comprises a protection suit body, air bags, an inflation device and reflective stripes, the air bags are arranged on the front

4. Motorcycle pedal-type safety detection and pr...
TW202402578A (B) • 2024-01-16 • CHEN GENG F...
Earliest priority: 2022-07-08 • Earliest publication: 2023-05-...

★ EP4385832A1 METHOD AND DEVICE FOR DETECTING A COLLISION OF A MOTORCYCLE WITH A RIGID OBJECT

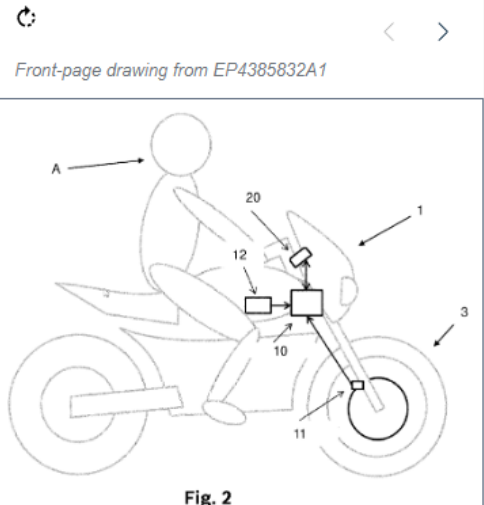
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Applicants BOSCH GMBH ROBERT [DE] +
Inventors KLEWS MATTHIAS [DE] +
Classifications
IPC B60R21/0132; B60R21/0136;
CPC B60R21/0132 (EP); B60R21/0136 (EP);
Priorities DE102022213667A · 2022-12-14
Application EP23215638A · 2023-12-11
Publication EP4385832A1 · 2024-06-19
Published as DE102022213667A1; EP4385832A1; JP2024085396A

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METHOD AND DEVICE FOR DETECTING A COLLISION OF A MOTORCYCLE WITH A RIGID OBJECT
Abstract





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A method and computer program are provided for operating a motorized two-wheeled vehicle, in particular a motorcycle that includes a sensor system for accident recognition that generates

29. AIRBAG DEVICE FOR MOTORCYCLE

JP2019142420A (B2) • 2019-08-29 • PROP KK

Earliest priority: 2018-02-22 • Earliest publication: 2019-08...

To provide an airbag device capable of achieving effective protection of an occupant from an impact caused by an accident, elimination of addition or remodeling of various apparatuses to a

30. METHOD FOR MOTORCYCLE ACCIDENT ...

US10464515B2 (A1) • 2019-11-05 • AEON MOTO...

Earliest priority: 2018-01-26 • Earliest publication: 2019-05...

A method for motorcycle accident detection and notification utilizes a wireless communication device and a motorcycle including an instrument system and an overturn detection

31. Airbag for motorcycle

CN107878632A • 2018-04-06 • WUXI CHUANGGE...

Earliest priority: 2017-10-28 • Earliest publication: 2018-04...

The invention discloses an airbag for a motorcycle. The airbag includes an airbag air bag and an airbag control system. The right side of the airbag air bag is provided with a guide strip, and

★ JP2019142420A AIRBAG DEVICE FOR MOTORCYCLE

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Global Dossier

Applicants PROP KK +

Inventors UCHIDA MITSUYA; YOSHIMURA TAKUMI; TAMURA TOSHIYO

Classifications

IPC B62J27/00; B60R21/16;

Priorities JP2018030187A:2018-02-22

Application JP2018030187A:2018-02-22

Publication JP2019142420A:2019-08-29

Published as JP2019142420A;JP7026334

EN JA

AIRBAG DEVICE FOR MOTORCYCLE

Abstract

To provide an airbag device capable of achieving addition or remodeling of various apparatuses to ;



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