EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 33

DATE: OCTOBER 1, 2014

PROJECT RP0001

The following classification changes will be effected by this Notice of Changes:

Action*	Subclass	Group(s)
Symbols Deleted:	B60R	B60R2021/01504 — B60R 2021/01595
Symbols newly created:	B60R	21/01504
	B60R	21/01508
	B60R	21/01512
	B60R	21/01516
	B60R	21/0152
	B60R	21/01522
	B60R	21/01524
	B60R	21/01526
	B60R	21/01528
	B60R	21/0153
	B60R	21/01532
	B60R	21/01534
	B60R	21/01536
	B60R	21/01538
	B60R	21/0154
	B60R	21/01542
	B60R	21/01544
	B60R	21/01546
	B60R	21/01548
	B60R	21/0155
	B60R	21/01552
	B60R	21/01554
	B60R	21/01556
	B60R	21/01558
	B60R	21/0156
	B60R	21/01562
	B60R	21/01564
	B60R	21/01566
Title Change:	B60R	21/0136
Scheme Warning Notices to be added/modified/deleted:	B60R	21/015

CPC Form – v.3

This order includes the following *[Check the ones included]:*

1.   CLASSIFICATION SCHEME CHANGES

⊠   A. New, Deleted, and Modified group(s)

⊠   B. New, Deleted, and Modified Warning Notice(s)

☐   C. New, Deleted, and Modified Note(s)

2.   DEFINITIONS

⊠   A. New Definitions

☐   B. Deleted and Modified Definitions

3.   ⊠   REVISION CONCORDANCE LIST (RCL)

4.   ⊠   CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5.   ⊠   CROSS-REFERENCE LIST (CRL)

1.   CLASSIFICATION SCHEME CHANGES

   A.   New, Modified or Deleted Group(s)

SUBCLASS B60R - VEHICLES, VEHICLE FITTINGS, OR VEHICLE PARTS, NOT OTHERWISE PROVIDED FOR

Type*	Symbol	Indent Level	Title
D	B60R2021/01504		
D	B60R 2021/01508		
D	B60R 2021/01512		
D	B60R 2021/01516		
D	B60R 2021/0152		
D	B60R 2021/01525		
D	B60R 2021/01529		
D	B60R 2021/01533		
D	B60R 2021/01537		
D	B60R 2021/01541		
D	B60R 2021/01545		
D	B60R 2021/0155		
D	B60R 2021/01554		
D	B60R 2021/01558		
D	B60R 2021/01562		
D	B60R 2021/01566		
D	B60R 2021/0157		
D	B60R 2021/01575		
D	B60R 2021/01579		
D	B60R 2021/01583		
D	B60R 2021/01587		
D	B60R 2021/01591		
D	B60R 2021/01595		
U	B60R21/0134	3	responsive to imminent contact with an obstacle {,e.g. using radar systems}
M	B60R21/0136	3	responsive to actual contact with an obstacle {e.g. to vehicle deformation, bumper displacement or bumper velocity relative to the vehicle (monitoring crash strength in combination with passenger seat detection **B60R21/01558**)}
C	B60R21/015	2	including means for detecting the presence or position of passengers, passenger seats or child seats, {and the related safety parameters therefor, e.g. speed or timing of airbag inflation in relation to occupant position or seat belt use}
N	B60R21/01504	3	{detecting bag displacement}
N	B60R21/01508	3	{detecting forces or pressure in bags or modules}
N	B60R21/01512	3	{Passenger detection systems}
N	B60R21/01516	4	{using force or pressure sensing means}

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Type*	Symbol	Indent Level	Title
N	B60R21/0152	5	{using strain gauges}
N	B60R21/01522	5	{using fluid means}
N	B60R21/01524	5	{using electric switches}
N	B60R21/01526	5	{using piezoelectric elements}
N	B60R21/01528	4	{mounted on the bag}
N	B60R21/0153	4	{using field detection presence sensors}
N	B60R21/01532	5	{using electric or capacitive field sensors}
N	B60R21/01534	5	{using electromagnetic waves, e.g. infrared}
N	B60R21/01536	5	{using ultrasonic waves}
N	B60R21/01538	5	{for image processing, e.g. cameras or sensor arrays}
N	B60R21/0154	5	{in combination with seat heating}
N	B60R21/01542	4	{detecting passenger motion}
N	B60R21/01544	4	{detecting seat belt parameters, e.g. length, tension or height-adjustment}
N	B60R21/01546	5	{using belt buckle sensors}
N	B60R21/01548	5	{sensing the amount of belt winded on retractor}
N	B60R21/0155	5	{sensing belt tension}
N	B60R21/01552	4	{detecting position of specific human body parts, e.g. face, eyes or hands}
N	B60R21/01554	3	{Seat position sensors}
N	B60R21/01556	3	{Child-seat detection systems}
N	B60R21/01558	3	{monitoring crash strength}
N	B60R21/0156	4	{by deceleration}
N	B60R21/01562	4	{by speed}
N	B60R21/01564	3	{Manually or key-actuated inhibition switches}
N	B60R21/01566	3	{Devices for warning or indicating mode of inhibition}

*N = new entries (reclassification involved); C = entries with modified file scope (reclassification involved); M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen/entries (deleted pending reclassification completion); U = entries that are unchanged

B.   New, Modified or Deleted Warning notice(s)

SUBCLASS B60R - VEHICLES, VEHICLE FITTINGS, OR VEHICLE PARTS, NOT OTHERWISE PROVIDED FOR

Type*	Location	Old Warning notice	New/Modified Warning notice
N	B60R21/015		{Groups B60R21/01504-B60R21/01566 are incomplete pending reclassification of documents from group B60R21/015. Until reclassification is complete, group B60R21/015 should be considered to perform a complete search.}

*N = new warning, M = modified warning, D = deleted warning

2.   Definitions

B60R21/015

Including means for detecting the presence or position of passengers, passenger seats or child seats, {and the related safety parameters therefor, e.g. speed or timing of airbag inflation in relation to occupant position or seat belt use}

Definition statement

This group/subgroup/subclass covers:

Systems or methods for triggering safety devices whereby the presence, the position or size of a passenger or a child seat is being detected AND this information is used to adapt the control of the safety devices.

Examples:

- inhibiting the actuation of safety devices in case of empty seats (no passenger present), the presence of child seats, etc.

- the out of position (OOP) of a passenger: when a passenger is not in its normal sitting position (e.g. leaning forward or aside), an actuated safety device (airbag, safety belt tensioner) may hurt or injure the passenger, therefore the actuation of the safety device has to be adapted by means of reducing the speed or pressure of the actuation device, or in severe cases inhibit the actuation.

- passenger classification systems which distinguish between child and adult, small and large adult or similar criteria.

Relationship between large subject matter areas

Where the detecting means are part of the vehicle seat, B60N2/00 which provides for seats specially adapted for vehicles, should be considered.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Vehicle seats	B60N2/00
Vehicle seats or children seats in vehicles	B60N2/28
Vehicle seat heating systems	B60N2/56
Force or pressure sensors per se	G01L

B60R21/01558

{monitoring crash strength}

Informative references

Attention is drawn to the following places, which may be of interest for search:

Crash strength monitoring combined with passenger detection	B60R21/0136

3.   REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol (new)
C	B60R21/015	B60R21/015 — B60R21/01566
	B60R2021/01504	B60R21/01504
	B60R 2021/01508	B60R21/01508
	B60R 2021/01512	B60R21/01512
	B60R 2021/01516	B60R21/01516
	B60R 2021/0152	B60R21/01528
	B60R 2021/01525	B60R21/0153)
	B60R 2021/01529	B60R21/01532
	B60R 2021/01533	B60R21/01534
	B60R 2021/01537	B60R21/01536
	B60R 2021/01541	B60R21/01538
	B60R 2021/01545	B60R21/01542
	B60R 2021/0155	B60R21/01544
	B60R 2021/01554	B60R21/01546
	B60R 2021/01558	B60R21/01548
	B60R 2021/01562	B60R21/0155
	B60R 2021/01566	B60R21/01552
	B60R 2021/0157	B60R21/01554
	B60R 2021/01575	B60R21/01556
	B60R 2021/01579	B60R21/01558
	B60R 2021/01583	B60R21/0156
	B60R 2021/01587	B60R21/01562
	B60R 2021/01591	B60R21/01564
	B60R 2021/01595	B60R21/01566

* C = entries with modified file scope (reclassification involved); D = deleted entries,

NOTE: Frozen (F) symbols are not included in the RCL table above.

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

CPC	IPC	Action*
B60R21/01504	B60R21/015	Add new entry
B60R21/01508	B60R21/015	Add new entry
B60R21/01512	B60R21/015	Add new entry
B60R21/01516	B60R21/015	Add new entry
B60R21/0152	B60R21/015	Add new entry
B60R21/01522	B60R21/015	Add new entry
B60R21/01524	B60R21/015	Add new entry
B60R21/01526	B60R21/015	Add new entry
B60R21/01528	B60R21/015	Add new entry
B60R21/0153	B60R21/015	Add new entry
B60R21/01532	B60R21/015	Add new entry
B60R21/01534	B60R21/015	Add new entry
B60R21/01536	B60R21/015	Add new entry
B60R21/01538	B60R21/015	Add new entry
B60R21/0154	B60R21/015	Add new entry
B60R21/01542	B60R21/015	Add new entry
B60R21/01544	B60R21/015	Add new entry
B60R21/01546	B60R21/015	Add new entry
B60R21/01548	B60R21/015	Add new entry
B60R21/0155	B60R21/015	Add new entry
B60R21/01552	B60R21/015	Add new entry
B60R21/01554	B60R21/015	Add new entry
B60R21/01556	B60R21/015	Add new entry
B60R21/01558	B60R21/015	Add new entry
B60R21/0156	B60R21/015	Add new entry
B60R21/01562	B60R21/015	Add new entry
B60R21/01564	B60R21/015	Add new entry
B60R21/01566	B60R21/015	Add new entry
B60R2021/01504		Delete CPC/IPC
B60R 2021/01508		Delete CPC/IPC
B60R 2021/01512		Delete CPC/IPC
B60R 2021/01516		Delete CPC/IPC
B60R 2021/0152		Delete CPC/IPC
B60R 2021/01525		Delete CPC/IPC
B60R 2021/01529		Delete CPC/IPC
B60R 2021/01533		Delete CPC/IPC
B60R 2021/01537		Delete CPC/IPC
B60R 2021/01541		Delete CPC/IPC
B60R 2021/01545		Delete CPC/IPC
B60R 2021/0155		Delete CPC/IPC
B60R 2021/01554		Delete CPC/IPC
B60R 2021/01558		Delete CPC/IPC

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CPC	**IPC**	**Action***
B60R 2021/01562		Delete CPC/IPC
B60R 2021/01566		Delete CPC/IPC
B60R 2021/0157		Delete CPC/IPC
B60R 2021/01575		Delete CPC/IPC
B60R 2021/01579		Delete CPC/IPC
B60R 2021/01583		Delete CPC/IPC
B60R 2021/01587		Delete CPC/IPC
B60R 2021/01591		Delete CPC/IPC
B60R 2021/01595		Delete CPC/IPC

5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

Location of reference to be changed	Referenced subclass or group to be changed	Change
B60R21/0136	B60R21/01558	responsive to actual contact with an obstacle {e.g. to vehicle deformation, bumper displacement or bumper velocity relative to the vehicle} {(monitoring crash strength in combination with passenger seat detection **B60R21/01558**)}