

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1130

DATE: AUGUST 1, 2021

PROJECT RP0721

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	B60W	2050/0077, 2050/0078, 2050/0079, 2050/008, 2050/0081, 2050/0089
	B60W	2530/14, 2530/145
Symbols New:	B60W	2530/13
Notes Modified:	B60W	Subclass
DEFINITIONS:		
Definitions Modified:	B60W	60/005

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following *[Check the ones included]:*

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

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

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 1130

DATE: AUGUST 1, 2021

PROJECT RP0721

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B60W – CONJOINT CONTROL OF VEHICLE SUB-UNITS OF DIFFERENT TYPE OR DIFFERENT FUNCTION; CONTROL SYSTEMS SPECIALLY ADAPTED FOR HYBRID VEHICLES; ROAD VEHICLE DRIVE CONTROL SYSTEMS FOR PURPOSES NOT RELATED TO THE CONTROL OF A PARTICULAR SUB-UNIT

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
T	B60W2050/0075	2	{Automatic parameter input, automatic initialising or calibrating means}	
D	B60W2050/0077	3	{involving external transmission of data to or from the vehicle}	<administrative transfer to B60W2556/45 and B60W2050/0075 simultaneously>
D	B60W2050/0078	4	{using Global Position System data}	<administrative transfer to B60W2556/50 and B60W2050/0075 simultaneously>
D	B60W2050/0079	4	{using telemetry}	<administrative transfer to B60W2556/55 and B60W2050/0075 simultaneously>
D	B60W2050/008	5	{using data transmitted between vehicles, e.g. for platooning, control of inter-vehicle distance}	<administrative transfer to B60W2556/65 and B60W2050/0075 simultaneously>
D	B60W2050/0081	5	{using satellite communication}	<administrative transfer to B60W2556/60 and B60W2050/0075 simultaneously>
U	B60W2050/0088	4	{Adaptive recalibration}	
D	B60W2050/0089	3	{Historical data record of previous events}	<administrative transfer to B60W2556/10 and B60W2050/0075 simultaneously>
U	B60W2530/12	1	Catalyst or filter state	
N	B60W2530/13	1	Mileage	
D	B60W2530/14	1	Historical data	<administrative transfer to B60W2556/10>
D	B60W2530/145	2	Mileage	<administrative transfer to B60W2530/13>

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more

CPC NOTICE OF CHANGES 1130

DATE: AUGUST 1, 2021

PROJECT RP0721

appropriate entries, as determined by intellectual reclassification; T= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No { curly brackets } are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The { curly brackets } are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

DATE: AUGUST 1, 2021

PROJECT RP0721

B. New, Modified or Deleted Note(s)

SUBCLASS: B60W – CONJOINT CONTROL OF VEHICLE SUB-UNITS OF DIFFERENT TYPE OR DIFFERENT FUNCTION; CONTROL SYSTEMS SPECIALLY ADAPTED FOR HYBRID VEHICLES; ROAD VEHICLE DRIVE CONTROL SYSTEMS FOR PURPOSES NOT RELATED TO THE CONTROL OF A PARTICULAR SUB-UNIT

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	B60W	<p>1. This subclass <u>does not cover</u> the control of a single sub-unit; such control is classified in the relevant place for the sub-unit, e.g. F02D, F16H. Where a single sub-unit is controlled by means of signals or commands from other sub-units, the control of this single sub-unit is classified in the relevant place for this sub-unit. For example, the control of variable-ratio gearing by means of signals from the engine or the accelerator is classified in the subclass for gearing, F16H.</p> <p>2. Conjoint control of driveline units, e.g. engines, and variable-ratio gearing occurring only transiently during ratio shift and being also characterised by the control of the gearing is also classified in the subclass for gearing, F16H.</p> <p>3. In groups B60W 20/00 – B60W 50/00, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place.</p> <p>4. When classifying in group B60W 10/00, classification must also be made in groups B60W 20/00 - B60W 50/00 in order to identify the purpose or use of the control.</p> <p>5. In this subclass, the following terms are used with the meanings indicated:</p>	<p><u>REPLACE</u> the entire <u>existing notes 3 through 5</u> with the following updated notes.</p> <p>3. When classifying in group B60W 10/00, classification must also be made in groups B60W20/00 - B60W60/00 in order to identify the purpose or use of the control.</p> <p>4. In this subclass, the following terms are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "conjoint control" means that a programmed or condition-responsive {main} automatic controller on board the vehicle, embodying control logic for vehicle sub-units of different type or different function, sends control signals to actuators of two or more vehicle sub-units, so that the sub-units act together to solve a particular problem or in response to a particular driving condition {in order to improve stability, comfort or safety by managing the global dynamics of the vehicle}; • "drive control system" means an electronic system on board a road vehicle for automatically controlling the movement {by managing the global dynamics} of that vehicle in order to take certain actions{in order to improve stability, comfort or safety}; • "road vehicle" means a motorised vehicle for transportation on roads, e.g. an automobile, truck or bus; • "autonomous road vehicle" means a road vehicle capable of controlling all dynamic driving tasks without human intervention during {a plurality of} driving scenarios by using on-board computer hardware and software to

CPC NOTICE OF CHANGES 1130

DATE: AUGUST 1, 2021

PROJECT RP0721

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<ul style="list-style-type: none"> • "conjoint control" means that a programmed or condition-responsive {main} automatic controller on board the vehicle, embodying control logic for vehicle sub-units of different type or different function, sends control signals to actuators of two or more vehicle sub-units, so that the sub-units act together to solve a particular problem or in response to a particular driving condition, {in order to improve stability, comfort or safety by managing the global dynamics of the vehicle}; • "drive control system" means an electronic system on board a road vehicle for automatically controlling the movement {by managing the global dynamics} of that vehicle in order to take certain actions {in order to improve stability, comfort or safety}; • "road vehicle" means a motorised vehicle for transportation on roads, e.g. an automobile, truck or bus; • "autonomous road vehicle" means a road vehicle capable of controlling all dynamic driving tasks without human intervention during a plurality of driving scenarios by using on-board computer hardware and software to execute decision making processes in real-time. • "sub-unit" means one of the following vehicle systems: {driveline systems, e.g.} propulsion 	<p>execute decision making processes in real-time.</p> <ul style="list-style-type: none"> • "sub-unit" means one of the following vehicle systems: {driveline systems, e.g.} propulsion system, clutch system, change-speed gearing system, system for distributing drive torque between front and rear axles, axle differential system, brake system, steering system, suspension system, {and, particularly for hybrid vehicles,} energy storage means, fuel cells, or auxiliary equipment.

CPC NOTICE OF CHANGES 1130

DATE: AUGUST 1, 2021

PROJECT RP0721

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		system, clutch system, change-speed gearing system, system for distributing drive torque between front and rear axles, axle differential system, brake system, steering system, suspension system, {and, particularly for hybrid vehicles,} energy storage means, fuel cells, or auxiliary equipment.	

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

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

DATE: AUGUST 1, 2021

PROJECT RP0721

2. A. DEFINITIONS (modified)

B60W60/005

Insert: The following new "Definition statement" section.

Definition statement

This place covers:

- Decision making processes used to initiate or abort handover of control of the driving tasks between the on-board control system and an occupant, e.g. ascertaining occupant or control system ability to perform driving tasks, determining time or distance required to perform handover.
- Processes performed during handover of control of the driving tasks between the on-board control system and an occupant, e.g. processes for gradually transferring the driving tasks from the on-board control system to an occupant.

Insert: The following new "Limiting references" section.

Limiting references

This place does not cover:

Handover processes between vehicles and remote control entities	G05D 1/0011
---	-------------

Insert: The following new "Special rules of classification" section.

Special rules of classification

When classifying in B60W60/0051- B60W60/0061, processes used to initiate or abort handover are classified in the relevant subgroups of B60W60/0051- B60W60/0061 and processes performed during handover are classified in B60W60/0051- B60W60/0053.

CPC NOTICE OF CHANGES 1130

DATE: AUGUST 1, 2021

PROJECT RP0721

3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	B60W 2050/0077	<administrative transfer to B60W 2556/45 and B60W 2050/0075 simultaneously>
D	B60W 2050/0078	<administrative transfer to B60W 2556/50 and B60W 2050/0075 simultaneously>
D	B60W 2050/0079	<administrative transfer to B60W 2556/55 and B60W 2050/0075 simultaneously>
D	B60W 2050/008	<administrative transfer to B60W 2556/65 and B60W 2050/0075 simultaneously>
D	B60W 2050/0081	<administrative transfer to B60W 2556/60 and B60W 2050/0075 simultaneously>
D	B60W 2050/0089	<administrative transfer to B60W 2556/10 and B60W 2050/0075 simultaneously>
D	B60W 2530/14	<administrative transfer to B60W 2556/10>
D	B60W 2530/145	<administrative transfer to B60W 2530/13>

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

CPC NOTICE OF CHANGES 1130

DATE: AUGUST 1, 2021

PROJECT RP0721

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B60W 2050/0077	CPCONLY	DELETE
B60W 2050/0078	CPCONLY	DELETE
B60W 2050/0079	CPCONLY	DELETE
B60W 2050/008	CPCONLY	DELETE
B60W 2050/0081	CPCONLY	DELETE
B60W 2050/0089	CPCONLY	DELETE
B60W 2530/13	CPCONLY	NEW
B60W 2530/14	CPCONLY	DELETE
B60W 2530/145	CPCONLY	DELETE

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.