

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1772

DATE: AUGUST 1, 2025

PROJECT MP12700

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	B60K	6/00
	B60K	8/00
	B60K	11/04
	B60K	17/24, 17/26
	B60K	26/00
	B60K	31/02
Notes New:	B60K	31/12
Notes Modified:	B60K	SUBCLASS
	B60K	6/00
Guidance Headings Modified:	B60K	1/00
	B60K	17/00
DEFINITIONS:		
Definitions New:	B60K	6/20
	B60K	25/06, 25/10
	B60K	28/16
Definitions Modified:	B60K	1/00, 1/04
	B60K	3/00
	B60K	5/00
	B60K	6/00
	B60K	7/00
	B60K	8/00
	B60K	11/00, 11/02, 11/04, 11/08
	B60K	13/00, 13/02, 13/04
	B60K	15/00, 15/01, 15/03, 15/035, 15/10
	B60K	16/00
	B60K	17/00, 17/04, 17/10, 17/12, 17/14, 17/34, 17/348, 17/35, 17/356
	B60K	20/00, 20/02
	B60K	23/00
	B60K	25/00
	B60K	26/00
	B60K	28/00
	B60K	31/00

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

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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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B60K - ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS IN VEHICLES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0, 1,</u> <u>2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to[#]</u>
M	B60K6/00	0	Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion, e.g. hybrid propulsion systems comprising electric motors and internal combustion engines	
M	B60K 8/00	0	Arrangement or mounting of propulsion units not provided for in one of main groups B60K 1/00 - B60K 7/00	
M	B60K11/04	2	Arrangement or mounting of radiators, radiator shutters, or radiator blinds	
M	B60K 17/24	2	Arrangement of mountings for shafting	
M	B60K 17/26	1	characterised by arrangement, location, or type of freewheel device	
M	B60K 26/00	0	Arrangement or mounting of propulsion-unit control devices in vehicles	
M	B60K 31/02	1	including electrically actuated servomechanism	

*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 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).

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- 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 finalization 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.

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C. New, Modified or Deleted Note(s)**SUBCLASS B60K - ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS IN VEHICLES**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	B60K	<p>1. In this subclass, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "conjoint control of drive units" includes such control for vehicles or of general applicability; • "auxiliary drives" means drives of auxiliary or external machines or devices from the propulsion unit, transmission, or other parts of the vehicle, and includes the control of such drives; • "transmission" means all propulsion parts linking propulsion units, e.g. engines, to ultimate propulsive elements, e.g. wheels; • "drive unit" means propulsion unit conjoint with transmission, a "drive unit" can additionally include the ultimate driven unit; • "sub-unit" means, e.g. propulsion unit, clutch, gearing or brake system; • "hybrid vehicle" means vehicles with plural diverse prime-movers for mutual or common propulsion <p>2. Attention is drawn to the Note following the title of class B60</p>	<p>1. In this subclass, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "auxiliary drives" means drives of auxiliary or external machines or devices from the propulsion unit, transmission, or other parts of the vehicle, and includes the control of such drives; • "transmission" means all propulsion parts linking propulsion units, e.g. engines, to ultimate propulsive elements, e.g. wheels. <p>2. Attention is drawn to the Note following the title of class B60</p>

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M	B60K6/00	<p>1. In this subgroup, the following expressions are used, with the meanings indicated :</p> <ul style="list-style-type: none"> • "energy storing means" means apparatus for storing propulsive energy and providing stored energy to drive the prime mover or the ultimate propulsive elements • "hybrid electric vehicle" (HEV) means a vehicle with an electrical prime mover and a combustion engine, in which the electrical prime mover and the combustion engine either singly or in combination, drive the ultimate propulsive elements, e.g. wheels • "motor-generator" means an electric motor, or an electric generator, or an electrical machine which can be used for both functions, as a motor or a generator • "prime mover" means a propulsion unit or source of motive power providing a mechanical output, e.g. via a rotating shaft 	<p>1. In this subgroup, the following expressions are used, with the meanings indicated:</p> <ul style="list-style-type: none"> • "prime-mover" means a propulsion unit or source of motive power providing a mechanical output, e.g. via a rotating shaft; • "hybrid electric vehicle" [HEV] means a vehicle having an electric prime-mover and a combustion engine, in which the electrical prime-mover and the combustion engine either singly or in combination, drive the ultimate propulsive elements, e.g. wheels; • "energy storing means" means apparatus for storing propulsive energy and providing stored energy to drive the prime mover or the ultimate propulsive elements, e.g. wheels; • "motor-generator" means an electric machine, such as a motor or a generator, or a mechanical combination thereof, which can provide positive mechanical output force or torque and which can function at other times as an electric generator.
N	B60K31/12		<p>1. This subgroup <u>covers</u> also, for example, the pendulum of a curve compensator, i.e. a refinement to the regulating means for automatically adjusting the "set" speed of the means to changes in the course of the roadway along which the vehicle is travelling.</p> <p>2. In this subgroup, rotating weights driven at a speed proportional to that of the vehicle's motor presently predominate.</p>

*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.

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D. New, Modified or Deleted Guidance Heading(s)

SUBCLASS B60K - ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS IN VEHICLES

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
M	B60K1/00 - B60K8/00	Arrangement or mounting of propulsion units in vehicles of control devices for such units B60K 26/00; elastic mountings per se F16F; propulsion units or their control per se, see the relevant classes	Arrangement or mounting of propulsion units in vehicles
M	B60K17/00 - B60K23/00	Arrangement or mounting of transmissions or their control in vehicles (torque-transmitting axles B60B; combined transmission and steering gear for steering non-deflectable wheels B62D)	Arrangement or mounting of transmissions or their control in vehicles

*N = new guidance heading, M = modified guidance heading, D = deleted guidance heading

NOTES:

- The “Location” column requires the symbol AFTER the guidance heading location. No further directions such as “before” or “after” are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the “Location” column. For example, the guidance heading “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen” encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the “Location” column as follows: 398/00 to be included under the guidance heading: “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen.”

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2. A. DEFINITIONS (new)

B60K 6/20

References

Informative references

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

Electric propulsion of vehicles with power supplied by engine-driven generators within the vehicle	B60L 50/10
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B60K 25/06

References

Informative references

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

Arrangement, location or type of power take-off in vehicles	B60K 17/28
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B60K 25/10

References

Informative references

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

Resilient suspensions having dampers accumulating utilisable energy, e.g. compressing air	B60G 13/14
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B60K 28/16

References

Informative references

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

Brake control systems for vehicle drive stability	B60T 8/1755
Arrangements for adjusting wheel-braking force responsive to a speed condition	B60T 8/32
Control of vehicle driving stability not related to the control of a particular sub-unit	B60W 30/02
Preventing wheel slippage by reducing power in rail vehicles	B61C 15/12

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2. A. DEFINITIONS (modified)**B60K 1/00****References*****Limiting references***

Replace: The Limiting references table with the below revised table.

Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion	B60K 6/00
Disposition of motor in, or adjacent to, traction wheel	B60K 7/00

Informative references

Replace: The Informative references table with the below revised table.

Electric transmission arrangements	B60K 17/12
Four-wheel drive vehicles having fluid or electric motor for driving one or more wheels	B60K 17/356
Arrangement or mounting of propulsion-unit control devices in vehicles	B60K 26/00
Motor driven wheelchairs	A61G 5/04
Electric equipment or propulsion of electrically-propelled vehicles per se	B60L
Current-collectors for power supply lines of electrically-propelled vehicles	B60L 5/00
Methods, circuits or devices for controlling the traction-motor speed of electrically-propelled vehicles	B60L 15/00

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Conjoint control of vehicle sub-units including control of electric propulsion units	B60W 10/08
Conjoint control system specially adapted for hybrid vehicles	B60W 20/00
Steering non-deflectable wheels by differentially driving ground-engaging elements on opposite vehicle sides	B62D 11/02
Superstructures for passenger vehicles	B62D 31/00
Dynamo-electric machines	H02K
Arrangements for handling mechanical energy structurally associated with dynamo-electric machines	H02K 7/00
Dynamo-electric machines with counter rotating rotors	H02K 16/005
Control of electric motors	H02P

B60K 1/04**References**Delete: The entire Limiting references section.**Informative references**Replace: The Informative references table with the below revised table.

Cooling of the batteries using HVAC of the vehicle	B60H 1/00278
Safety devices for electric storage systems in electric vehicles	B60L 3/0046

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Constructional details of batteries specially adapted for electric vehicles	B60L 50/64
Connecting elements for charging the batteries	B60L 53/00
Exchanging batteries for electrically-propelled vehicles	B60L 53/80
Arrangement of batteries specially adapted for vehicles and not otherwise provided for	B60R 16/04
Supplying batteries to, or removing batteries from, vehicles	B60S 5/06
Braking elements using wheel movement for accumulating energy, e.g. by driving air compressors	B60T 1/10
Floors or bottom sub-units	B62D 25/20
Electrochemical generators per se	H01M
Fuel cells	H01M 8/00
Heating of fuel cell	H01M 8/04007
Heating and cooling of batteries in general	H01M 10/60
Heating and cooling of batteries specially adapted for applications in vehicles	H01M 10/625
Housings or holders for batteries	H01M 50/20
Fixing of the housing of the batteries to the vehicle if the invention is on the housing of the batteries	H01M 50/249

Special rules of classification

Replace: The Special rules text with the revised text below.

If there exists a second prime mover, e.g. an internal combustion engine [ICE] or hydraulic accumulator, classification is additionally made in [B60K 6/00](#).

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B60K 3/00**Definition statement**

Replace: The Definition statement text with the revised text below.

This group comprises documents concerning the arrangement or mounting in the vehicle of the steam engine or gaseous-pressure propulsion. The engine per se is classified in [F01K](#), [F01B](#), [F02C](#).

References***Limiting references***

Delete: The row shown below from the Limiting references table.

Gaseous-pressure transmission arrangements	B60K 17/10
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Informative references

Replace: The Informative references table with the below revised table.

Arrangement or mounting of fluid gearing in vehicles	B60K 17/10
Arrangement or mounting of propulsion-unit control devices in vehicles	B60K 26/00
Engines using uniflow principle	F01B 17/00
Steam engines	F01B 17/04
Steam engine plants	F01K
Steam engine plants for driving vehicles	F01K 15/02
Gas turbine plants	F02C

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B60K 5/00**Definition statement**

Replace: The Definition statement text with the revised text below.

This group comprises documents concerning the arrangement of an internal combustion motor in the vehicle. A damping means, rubber or the control of a damping means per se are classified in [F16F](#).

References**Limiting references**

Replace: The Limiting references table with the below revised table.

Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion	B60K 6/00
Disposition of motor in, or adjacent to, traction wheel	B60K 7/00

Insert: The following new Informative references section.

Informative references

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

Arrangement or mounting of propulsion-unit control devices in vehicles	B60K 26/00
Understructures of vehicles with resilient means for suspension	B62D 21/11
Understructures with impact absorbing front or rear frames	B62D 21/152
Internal-combustion piston engines; Combustion engines in general	F02B
Combinations of combustion engines with mechanical gearing	F02B 61/06

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Springs; Shock absorbers; Means for damping vibration	F16F
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B60K 6/00**Relationships with other classification places**

Replace: The Relationships section text with the below revised text.

B60K 6/00 is the place where the layout and arrangement of hybrid propulsion systems is classified. The control of these systems is classified in groups **B60W 20/00** and **B60W 10/00** for the type of the controlled unit with additional classification symbol in this group when the type of hybrid propulsion system is of interest. Combustion engine features are classified per se in the relevant subclasses **F02B**, **F02D**, **F02N**. Transmission or clutch features per se are classified in the relevant subclasses **F16H** or **F16D**.

References

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the below revised table.

Disposition of motor in, or adjacent to, traction wheel	B60K 7/00
Arrangement of fluid gearing in vehicles	B60K 17/10
Arrangement of electric gearing in vehicles	B60K 17/12
Transmission arrangements for driving front and rear wheels, having fluid or electric motor, for driving one or more wheels	B60K 17/356
Arrangement or mounting of propulsion-unit control devices in vehicles	B60K 26/00

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Electric propulsion with power supplied within the vehicle	B60L 50/00
Electric propulsion with power supplied within the vehicle using propulsion power supplied by engine-driven generators	B60L 50/10
Control systems specially adapted for hybrid vehicles	B60W 20/00
Vehicle propulsion control with common controlling member for different functions	B60W 30/18181
Prime movers comprising electric motors and ICE in a common engine block or housing	F02M 65/00
Electric motors or motor-generators used for starting the combustion engine	F02N 11/04
Electric motors for synchronising gearing	F16H 3/12
Mechanical gearings having orbital motion with secondary drive in order to vary speed continuously	F16H 3/72
Control of gear shifting per se	F16H 61/00
Control of hydrostatic gearing	F16H 61/40
Arrangements for handling mechanical energy structurally associated with the dynamo-electric machine	H02K 7/00
Dynamo-electric gears, i.e. dynamo-electric means for transmitting mechanical power from a driving shaft to a driven shaft and comprising structurally interrelated motor and generator parts	H02K 51/00

Glossary of terms

Replace: The Glossary of terms table with the revised table below.

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energy storing means	apparatus for storing propulsive energy and providing stored energy to drive the prime-mover or the ultimate propulsive elements, e.g. wheels
hybrid electric vehicle	vehicles having an electric prime-mover and a combustion engine, in which the electric prime-mover and the combustion engine either singly or in combination, drive the ultimate propulsive elements, e.g. wheels
motor-generator	an electric machine, such as a motor or a generator or a mechanical combination thereof, which can provide positive mechanical output force or torque and which can function at other times as an electric generator
prime-mover	a propulsion unit or source of motive power providing a mechanical output, e.g. via a rotating shaft

B60K 7/00**Definition statement**

Replace: The Definition statement text with the revised text below.

Inventions related to a particular disposition of the motor regarding the wheel. The term "in, or adjacent to" means there is one motor driving one wheel (or dual wheels forming a unit) without a differential in between.

References

Delete: The entire Limiting references section.

Insert: The following new Application-oriented references section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

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Arrangement or mounting of fluid or electric gearing in vehicles characterised by the motor of the fluid or electric gearing being disposed in, or adjacent to, traction wheel	B60K 17/14
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Informative references

Replace: The Informative references table with the below revised table.

Arrangement or mounting of electrical propulsion units in vehicles	B60K 1/00
One electric motor mounted directly on a propulsion axle for rotating right and left wheels of this axle, e.g. using a differential between the motors and the driven wheels	B60K 2001/001
Hybrid propulsion systems for vehicles	B60K 6/00
Arrangement in connection with cooling of propulsion units	B60K 11/00
Arrangement of transmission units disposed in or near the vehicle wheel	B60K 17/043
Arrangement or mounting of propulsion-unit control devices in vehicles	B60K 26/00
Wheelchairs	A61G 5/00
Roller-skates or skateboards with driving mechanisms	A63C 17/12
Resilient suspension	B60G 3/00
Electric equipment or propulsion of electrically propelled vehicles	B60L
Arrangements of braking elements	B60T 1/00

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Steering linkages	B62D 7/00
Dynamo-electric machines (electric motors)	H02K

B60K 8/00**References*****Informative references***

Insert: The new row shown below into the existing Informative references table.

Arrangement or mounting of propulsion-unit control devices in vehicles	B60K 26/00
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B60K 11/00**References**

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the revised table below.

Arrangement in connection with combustion air intake or exhaust of propulsion units in vehicles	B60K 13/00
Arrangement of heating devices for passenger or goods spaces of vehicles	B60H
Cooling devices for passenger or goods spaces of vehicles characterised by the arrangement or the type of heat exchanger, e.g. condenser or evaporator	B60H 1/3227
Methods or circuit arrangements for cooling batteries, specially adapted for electric vehicles	B60L 58/26

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Methods or circuit arrangements for cooling fuel cells, specially adapted for electric vehicles	B60L 58/33
Insulating elements for vehicles, e.g. for sound insulation	B60R 13/08
Cooling of internal combustion engines	F01P
Arrangements or mounting of liquid-to-air heat-exchangers for cooling of machines or engines other than in vehicles	F01P 3/18
Guiding or ducting cooling air to, or from, ducted fans	F01P 5/06
Guiding or ducting cooling air to, or from, liquid-to-air heat exchangers	F01P 11/10
Filtering, cooling or silencing cooling air	F01P 11/12
Non-positive-displacement pumps, e.g. ventilators or fans	F04D
Details of radiators	F28F
Arrangements for cooling or ventilating dynamoelectric machines	H02K 9/00

B60K 11/02**References**

Delete: The entire Limiting references section.

Insert: The new Informative references section shown below.

Informative references

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

Air inlets for cooling of propulsion units; Shutters or blinds therefor	B60K 11/08
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B60K 11/04**Definition statement**

Insert: A semicolon at the end of the first Definition statement bullet so that the entire Definition text appears as shown below.

- Mounting or arrangement of radiators;
- Radiator shutters or blinds mounted directly on the radiator.

References

Delete: The entire Limiting references section.

Insert: The new Informative references section shown below.

Informative references

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

Air inlets for cooling of propulsion units in vehicles; Shutters or blinds therefor	B60K 11/08
Adjustable shutters or blinds for air inlets for cooling of propulsion units in vehicles	B60K 11/085
Arrangement in connection with combustion air intake or gas exhaust of propulsion units in vehicles	B60K 13/00
Arrangements or mounting of liquid-to-air heat-exchangers	F01P 3/18
Details of heat-exchange and heat-transfer apparatus, of general application	F28F

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B60K 11/08

References

Delete: The entire Limiting references section.

Informative references

Insert: The new row shown below into the existing Informative references table.

Arrangement or mounting of radiator shutters or radiator blinds, e.g. mounted directly on the radiator	B60K 11/04
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Glossary of terms

Replace: The existing Glossary of terms table with the revised table below.

air inlet	space between the car body opening to the radiator
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B60K 13/00

Definition statement

Replace: “arrangement” with “Arrangement” so that the Definition statement appears as shown below.

Arrangement in the vehicle of combustion air intake or gas exhaust of propulsion unit.

References

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the revised table below.

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Removing snow or ice from roads or like surfaces by application of heat	E01H 5/10
Exhaust silencers or exhaust apparatus for internal-combustion engines	F01N
Adding substances to exhaust gas	F01N 2610/00
Supplying combustion engines with combustible mixtures or constituents thereof	F02M
Combustion-air cleaners, air intakes, intake silencers, or induction systems specially adapted for, or arranged on, internal-combustion engines	F02M 35/00
Pipes in general	F16L
Noise absorbing hangers or supports for pipes or pipe systems	F16L 55/035

B60K 13/02**References**

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the revised table below.

Bumpers	B60R 19/00
Intercoolers	F02B 29/04
Combustion-air cleaners, air intakes, intake silencers or induction systems for internal-combustion engines	F02M 35/00
Combustion-air filters for internal-combustion engines	F02M 35/024
Arrangement of the air intake system in the engine compartment	F02M 35/161

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B60K 13/04**Definition statement**

Replace: The Definition statement text with the following revised text.

Specific arrangement in the vehicle of exhaust element or structure used to fasten exhaust element to a vehicle if the invention is on the vehicle side (special adaptation of the vehicle structure) and not on the exhaust side.

Fixing element of the exhaust mounted on the vehicle frame and not on the exhaust apparatus, e.g. fixing bracket adapted to vehicle frame.

Arrangement of urea tanks in vehicles.

References

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the revised table below.

Exhaust silencers or exhaust apparatus for internal-combustion engines	F01N
Exhaust or silencing apparatus characterised by having thermal insulation	F01N 13/14
Exhaust or silencing apparatus characterised by means for fixing exhaust pipes or devices to vehicle bodies	F01N 13/1822

B60K 15/00**Definition statement**

Replace: The Definition statement text with the following revised text.

Arrangement of tanks in connection with fuel supply of combustion engines, as well as the arrangement of gas tanks in vehicles.

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ReferencesDelete: The entire Limiting references section.**Informative references**Replace: The Informative references table with the revised table below.

Arrangement in connection with exhaust of propulsion units in vehicles, e.g. of urea tanks	B60K 13/04
Tank vehicles	B60P 3/22
Fuel tanks specially adapted for motorcycles	B62J 35/00
Tanks for aircraft	B64D 37/02
Tanks for storage or transport	B65D
Apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles	B67D 7/00
Tanks for the supply of substances, e.g. urea, to exhaust gases	F01N 2610/1406
Controlling the feeding of liquid fuel from storage containers to carburettors or fuel-injection apparatus	F02D 33/003
Supplying combustion engine with combustible mixtures or constituent thereof	F02M
Apparatus or systems for feeding liquid fuel from storage containers to carburettors or fuel-injection apparatus	F02M 37/00
Valves in general	F16K
Vessels for containing or storing compressed, liquefied or solidified gases	F17C
Indicating or measuring liquid level	G01F 23/00
Fuel cells	H01M 8/00

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Reactant storage and supply for fuel cells	H01M 8/04201
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B60K 15/01**References*****Informative references***

Replace: The Informative references table with the revised table below.

Injection moulding	B29C 45/00
Chassis forming fluid conduit means	B62D 21/17
Pipes in general and connection thereof	F16L

B60K 15/03**References*****Informative references***

Replace: The Informative references table with the revised table below.

Arrangement in connection with exhaust of propulsion units in vehicles, e.g. of urea tanks	B60K 13/04
Chassis comprising fluid storage compartment	B62D 21/16
Selective catalytic reduction [SCR]	F01N 3/2066
Tanks for the supply of substances, e.g. urea, to exhaust gases	F01N 2610/1406
Constructional details; Manufacturing or assembly of elements of fuel system; Materials therefor	F02M 37/0011

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Details of the fuel feeding system related to multiple separate fuel tanks	F02M 37/0088
Details of the fuel feeding system related to saddle tanks	F02M 37/0094
Armoured vehicle	F41H

B60K 15/035

References

Delete: The entire Limiting references section.

Informative references

Insert: The new row shown below into the existing Informative references table.

Engine-pertinent apparatus for adding fuel vapours drawn from engine fuel reservoir to combustion air or fuel-air mixture	F02M 25/08
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B60K 15/10

Definition statement

Insert: A period at the end of the existing Definition statement text as shown below.

Plants mounted in the vehicle and used for producing gas for the propulsion of the vehicle.

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References***Informative references***Replace: The Informative references table with the revised table below.

Electric vehicles using power supplied by batteries or fuel cells	B60L 50/50
Production of gases containing carbon monoxide and hydrogen from solid carbonaceous materials by partial oxidation processes involving oxygen or steam	C10J
Engine plants characterised by the engines using gaseous fuel generated in the plant from solid fuel, e.g. wood	F02B 43/08
Fuel cells	H01M 8/00
Structural combinations of fuel cells with other electrochemical devices	H01M 16/003

B60K 16/00**References*****Limiting references***Replace: The Limiting references table with the revised table below.

Electric propulsion with power supply from forces of nature, e.g. sun or wind	B60L 8/00
Wind motors specially adapted for installation on vehicles	F03D 9/32

Informative referencesReplace: The Informative references table with the revised table below.

Rider propulsion of wheeled vehicle with additional power source comprising solar cells	B62M 6/85
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Marine propulsion by wind motors driving water-engaging propulsive elements	B63H 13/00
Alleged perpetua mobilia using hydrostatic thrust	F03B 17/04
Wind motors	F03D
Controlling wind motors	F03D 7/00
Alleged perpetua mobilia with mechanical-power-producing mechanisms	F03G 7/10
Circuit arrangements for charging batteries comprising light sensitive cells	H02J 7/35

B60K 17/00**Definition statement**

Replace: The Definition statement text with the revised text below.

This group is given only if there is a specific arrangement/mounting of the transmission in the vehicle. The different elements of the transmission per se are classified elsewhere and should not be classified in [B60K 17/00](#) (e.g. [F16H](#) gearings, [F16D](#) clutches). Even the connection between the elements is to be classified elsewhere in most of the cases (see, for example, [H02K 7/10](#) structural association of electric machines with clutches, brakes, gears).

References**Informative references**

Replace: The Informative references table with the revised table below.

Arrangement or mounting of control devices for vehicle transmissions	B60K 23/00
Torque-transmitting wheel axles	B60B 35/12
Vehicle suspension arrangements	B60G

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Conjoin control of propulsion units	B60W 30/18
Steering of deflectable wheels	B62D 9/00
Steering non-deflectable wheels using gearings with differential power outputs on opposite sides	B62D 11/10
Understructures	B62D 21/00
Endless track vehicles	B62D 55/00
Assembling motor vehicles by joining sub-units or components, the components being engines, clutches or transmissions, with respect to the body shell or other sub-units or components	B62D 65/10
Combinations of combustion engines with mechanical gearing	F02B 61/06
Clutches	F16D
Suppression of vibrations	F16F
Gearing	F16H

B60K 17/04**References**Delete: The entire Limiting references section.Insert: The new Informative references section shown below.

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

Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion, e.g. hybrid propulsion systems	B60K 6/00
Hybrid electric vehicles characterised by the transmission gearings	B60K 6/36
Hybrid electric vehicles characterised by the assembly or relative disposition of components	B60K 6/40
Architecture of the driveline in hybrid electric vehicles	B60K 6/50
Arrangement of propulsion on amphibious vehicle	B60F 3/0007
Electric equipment or propulsion of electrically-propelled vehicles per se	B60L
Combinations of mechanical gearings	F16H 37/00
Combinations of mechanical gearing with fluid gearing	F16H 47/00
Gearboxes; Mounting gearing therein	F16H 57/02
Support of gearboxes, e.g. torque arms, or attachment to other devices	F16H 57/025
Gearboxes using a combination of several standardised units	F16H 57/033
Features relating to lubrication or cooling of gearing	F16H 57/04

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B60K 17/10**References**Delete: The entire Limiting references section.***Informative references***Replace: The Informative references table with the revised table below.

Arrangement or mounting of transmissions in vehicles characterised by arrangement, location or kind of clutch	B60K 17/02
Fluid or electric gearing in vehicles with motor being disposed in, or adjacent to, traction wheel	B60K 17/14
Positive-displacement machines for liquids; Pumps	F04B
Rotary-piston, or oscillating-piston, positive-displacement machines for liquids; Rotary-piston or oscillating-piston, positive-displacement pumps	F04C
Non-positive-displacement pumps	F04D
Pumping of fluid by direct contact of another fluid or by using inertia of fluid to be pumped	F04F
Rotary fluid gearing using pumps and motors of the volumetric type	F16H 39/00
Combinations of mechanical gearing with fluid clutches or fluid gearing	F16H 47/00
Control of hydrostatic gearing	F16H 61/40

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B60K 17/12**References**Delete: The entire Limiting references section.Insert: The new Informative references section shown below.***Informative references****Attention is drawn to the following places, which may be of interest for search:*

Arrangement or mounting of electrical propulsion units in vehicles	B60K 1/00
Disposition of motor in, or adjacent to, traction wheel	B60K 7/00
Arrangement or mounting of transmissions in vehicles characterised by arrangement, location or kind of clutch	B60K 17/02
Fluid or electric gearing in vehicles with motor being disposed in, or adjacent to, traction wheel	B60K 17/14
Electric equipment or propulsion of electrically propelled vehicles	B60L
Electric device for safety purposes, monitoring variables on electric vehicles	B60L 3/00
Methods for controlling the speed/torque of electric vehicles	B60L 15/00
Electric propulsion with power supplied within the vehicle	B60L 50/00
Conjoint control including the control of electric propulsion units	B60W 10/08
Arrangements for non-automatic engine control initiation means, e.g. operator initiated, characterised by electric type control linkages (Drive-by-wire)	F02D 11/10

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Dynamo-electric clutches; Dynamo-electric brakes	H02K 49/00
Dynamo-electric gears, i.e. dynamo-electric means for transmitting mechanical power from a driving shaft to a driven shaft and comprising structurally interrelated motor and generator parts	H02K 51/00

B60K 17/14**References**

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the revised table below.

Disposition of motor in, or adjacent to, traction wheel	B60K 7/00
Arrangement or mounting of transmissions in vehicles for driving both front and rear wheels having fluid or electric motor, for driving one or more wheels	B60K 17/356
Steering non-deflectable wheels using gearings with differential power outputs on opposite sides, with additional power being supplied hydraulically to one side	B62D 11/18
Hydraulic motors	F03C
Rotary fluid gearing using pumps and motors of the volumetric type	F16H 39/00

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Glossary of terms

Replace: The Glossary of terms table with the revised table below.

in, or adjacent to	there is one motor driving one wheel (or dual wheels forming a unit) without a differential in between
--------------------	--

B60K 17/34**Definition statement**

Replace: The Definition statement text with the revised text below.

In this particular case, all four-wheel transmissions per se are classified in these groups and not only the arrangement in the vehicle.

References***Informative references***

Replace: The Informative references table with the revised table below.

Arrangement or mounting of control devices for changing number of driven wheels	B60K 23/08
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B60K 17/348**References*****Limiting references***

Replace: The Limiting references table with the revised table below.

Arrangement of transmissions in vehicles for driving both front and rear wheels having a differential transfer gear	B60K 17/346
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Informative references

Insert: The following new row into the existing Informative references table.

Arrangement of transmissions in vehicles for driving both front and rear wheels having a transfer gear	B60K 17/344
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Glossary of terms

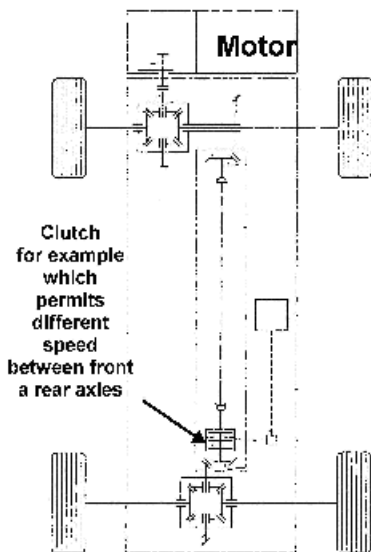
Replace: The Glossary of terms table with the revised table below.

differential means	means which permit the front and the rear axles to rotate at different speed like for example: clutches, viscous connecting means
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B60K 17/35**Definition statement**

Replace: The existing Definition statement text so that it appears as shown below. Image remains unchanged.

Illustrative example of subject matter classified in this place:



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References

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the revised table below.

Arrangement or mounting of transfer gears for driving both front and rear wheels	B60K 17/344
Transfer gears with means for changing the distribution of torque between front and rear wheels	B60K 17/3462
Arrangement of control devices for varying the torque distribution between driven axles	B60K 23/0808
Differential gearing with arrangements for suppressing or influencing the differential action, e.g. locking devices	F16H 48/20

B60K 17/356**Definition statement**

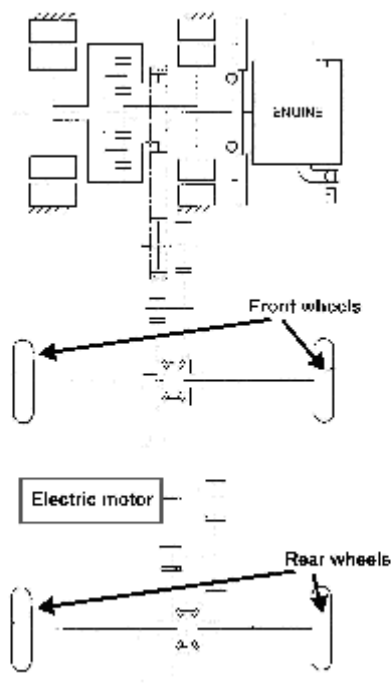
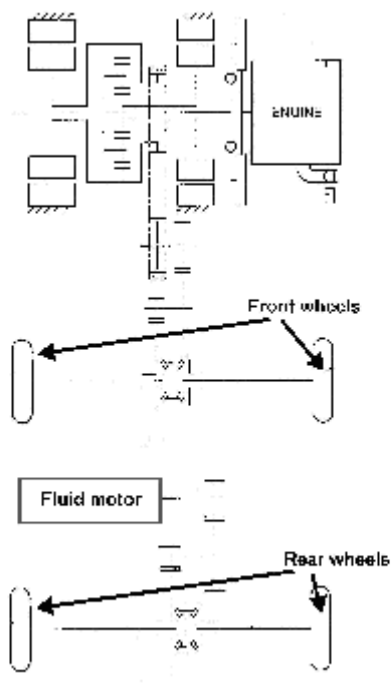
Replace: The existing Definition statement text so that it appears as shown below. Images remain unchanged.

The transmissions which comprise a main assembly for transmitting power and furthermore a fluid or electric motor(s) for driving one or more wheels.

Illustrative examples of subject matter classified in this place:

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References

Informative references

Replace: The Informative references table with the table shown below.

Prime movers comprising combustion engines and mechanical or fluid energy storing means	B60K 6/08
Hybrid vehicles comprising electric and combustion engines	B60K 6/20
Hybrid vehicles driving a plurality of drive axles, e.g. with four-wheel drive	B60K 6/52
Disposition of motor in, or adjacent to, traction wheel	B60K 7/00
Conjoint control of vehicle sub-units of different type or different function, including the control of driveline clutches	B60W 10/02

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Conjoint control of vehicle sub-units of different type or different function, including control of propulsion units	B60W 10/04
Control systems specially adapted for hybrid vehicles	B60W 20/00

B60K 20/00**Definition statement**

Replace: The existing Definition statement text so that it appears as shown below.

The arrangement in the vehicle of the change speed gearing control devices. The change speed control device per se is classified in [F16H 59/02](#).

References

Delete: The entire Limiting section.

Informative references

Replace: The Informative references table with the table shown below.

Movable drivers' cabs characterised by special adaptations of vehicle control devices	B62D 33/073
Control inputs to change-speed- or reversing-gearings for conveying rotary motion	F16H 59/00
Selector apparatus to change-speed-, or reversing-gearings	F16H 59/02
Control functions within change-speed- or reversing-gearings for conveying rotary motion	F16H 61/00
Controlling members for hand actuation by pivoting movement in general, e.g. levers	G05G 1/04
Controlling members for hand actuation by rotary movement in general, e.g. hand wheels	G05G 1/08

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B60K 20/02**References**Delete: The entire Limiting section.***Informative references***Replace: The Informative references table with the table shown below.

Adaptation for additional use of the arm-rests of vehicle seats	B60N 2/79
Adaptation of the arm-rests of vehicle seats for electrical control, e.g. by using switches	B60N 2/797
Selector apparatus to change-speed-, or reversing-gearings	F16H 59/02
Selector apparatus for automatic transmissions with means for range selection and manual shifting	F16H 59/0204
Selector apparatus with means for suppression of vibrations or reduction of noise	F16H 59/0208
Constructional features of the selector lever, e.g. grip parts, mounting or manufacturing	F16H 59/0278
Ratio selector apparatus	F16H 59/04
Ratio selector apparatus consisting of electrical switches or sensors	F16H 59/044
Control devices or systems insofar as characterised by mechanical features only	G05G

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B60K 23/00

Definition statement

Replace: The existing Definition statement text so that it appears as shown below.

- Driver input members for controlling the main clutch comprising arrangements and mountings of pedals or paddles, clutch actuator transmission means of mechanical, electrical or hydraulic type and mounting of final actuators in the vehicle;
- Arrangements and mountings of automated clutch actuators using, e.g. mechanical, electromechanical or hydraulic means;
- Driver input members for controlling differential gearings comprising arrangements and mountings of levers, pedals or switches to lock a differential or to modify torque or speed distribution;
- Manual or automatic actuating means for locking or opening a freewheel device;
- Manual or automatic actuating means for switching from two to four-wheel drive;
- Automatic controllers for varying the torque distribution between axles, e.g. between the front and the rear wheels.

Relationships with other classification places

Replace: The Relationships text with the revised text below.

B60K 23/00 concerns the mountings or arrangements of control units related to a particular sub-unit not otherwise provided for in **B60K**.

The arrangements and mounting of input devices for change speed gearing are classified in **B60K 20/00**.

The arrangements and mounting of input devices for propulsion units are classified in **B60K 26/00**.

Vehicle drive control systems in general that are used for conjoint control and not related to a particular sub-unit are classified in **B60W 30/00**.

Arrangement or mounting of gearings for driving both front and rear wheels **B60K 17/34**.

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ReferencesDelete: The entire Limiting references section.**Informative references**Replace: The Informative references table with the revised table below.

Arrangement or mounting of clutches in vehicles	B60K 17/02
Arrangement or mounting of differential gearing in vehicles	B60K 17/16
Arrangement or mounting of freewheel devices in vehicles	B60K 17/26
Control systems for conjoint control of vehicle sub-units of different type or different function comprising clutch units	B60W 10/02
Propulsion control with common controlling member for different functions, e.g. conjoint engine and clutch control member	B60W 30/18181
Steering non-deflectable wheels using gearings with differential power outputs on opposite sides	B62D 11/10
Movable drivers' cabs characterised by special adaptations of vehicle control devices	B62D 33/073
Couplings for transmitting rotation; Clutches; Brakes	F16D
Fluid actuated clutches	F16D 25/00
Freewheel clutches in general	F16D 41/00
Control devices for clutches per se	F16D 48/00
Gearing	F16H
Control functions within change-speed- or reversing-gearings in general	F16H 61/00
Control of hydrostatic transmissions	F16H 61/40
Controlling members for hand actuation by pivoting movement in general, e.g. levers	G05G 1/04

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Controlling members for hand actuation by rotary movement in general, e.g. hand wheels	G05G 1/08
Controlling members actuated by foot in general	G05G 1/30

Special rules of classification

Replace: The Special rules text with the revised text below.

Use of the Indexing Code scheme is mandatory. When classifying in group [B60K 23/00](#) classification must also be made in groups [B60K 23/00](#) - [B60K 2023/0841](#) for special features of clutch control, in [B60Y 2400/00](#) for special features in general and in [B60Y 2300/00](#) in order to identify the purpose and in [B60W 10/00](#) for controlled sub-units and in [B60W 2510/00](#) - [B60W 2530/213](#) for controller input parameters and [B60W 2710/00](#) - [B60W 2720/406](#) for output target values.

B60K 25/00

Definition statement

Replace: The Definition statement text with the revised text below.

Drives for auxiliaries, including input power source, transmission and auxiliary output.

The driving power source is determinant for the subgroup and is either:

- directly from an engine shaft: [B60K 25/02](#);
- from static or dynamic pressure or vacuum, developed by the engine: [B60K 25/04](#);
- from a transmission power take-off, PTO shaft: [B60K 25/06](#);
- from a ground wheel, e.g. engaging the wheel tread or rim: [B60K 25/08](#);
- directly from oscillating movements due to vehicle running motion: [B60K 25/10](#).

The drives are of any transmission type: belts, chains, gear trains, hydrostatic transmissions or electric transmissions using alternators/motors connected to a battery.

Auxiliary are all kind of vehicle auxiliaries as:

- Pumps for steering servos;
- Pumps for any hydraulic actuators for onboard implements;

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- Compressors for air conditioning;
- Vacuum pumps for braking assistance;
- Alternators or generators.

References

Limiting references

Replace: The Limiting references table with the revised table below.

Arrangement of tyre-inflating pumps mounted on vehicles	B60C 23/10
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Informative references

Replace: The Informative references table with the revised table below.

Arrangements in connection with power supply of propulsion units in vehicles from forces of nature, e.g. sun or wind	B60K 16/00
Arrangement, location or type of power take-off in vehicles	B60K 17/28
Driving arrangements for vehicle air-conditioning systems	B60H 1/00421
Arrangements of pumps or compressors for control devices of brake systems	B60T 17/02
Pumps for power assisted steering	B62D 5/063
Engines characterised by the arrangement of auxiliary apparatus not being otherwise provided for	F02B 67/00
Starting of engines by means of electric motors, the motors being associated with current generators	F02N 11/04

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Special rules of classification

Replace: The Special rules text with the revised text below.

When classifying in group **B60K 25/00**, classification can also be made in codes for additional information:

- in **B60K 25/00** - **B60K 25/10** for additional information;
- in **B60Y 2400/00** for special features in general;
- in **B60Y 2200/00** for the vehicle types;
- in **B60Y 2300/00** in order to identify the purpose;
- in **B60W 10/00** for the type of controlled particular sub-unit, and further;
- in **B60W 2510/00** - **B60W 2530/213** for controller input parameters;
- in **B60W 2710/00** - **B60W 2720/406** for output target values.

B60K 26/00

Definition statement

Replace: The Definition statement text with the revised text below.

- Driver input members for controlling the propulsion unit, prime movers comprising arrangements and mountings of accelerator pedals or paddles;
- Throttle or fuel injection actuator transmission means of mechanical, electrical or hydraulic type and mounting of control input devices in the vehicle;
- Arrangements and mountings of automatised actuators using actuating means, e.g. electromechanical or hydraulic, secondary throttles and drive by wire engine controls;
- Driver input members for controlling electric drive motors in electric vehicles;
- Haptic driver feedback in pedal or increasing pedal force in case of dangerous driving conditions;
- Electrical transmission means between accelerator pedals and propulsion units.

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ReferencesDelete: The entire Limiting references section.***Informative references***Replace: The Informative references table with the revised table below.

Human control setting devices for electrically propelled vehicles	B60L 15/00
Control systems for hybrid vehicles	B60W 20/00
Propulsion control with common controlling member for different functions, e.g. common control member for engine and brake control	B60W 30/18181
Movable drivers' cabs characterised by special adaptations of vehicle control devices	B62D 33/073
Arrangements for, or adaptations to, operator-initiated engine control	F02D 11/00
Accelerator pedal transfer functions to engine controllers	F02D 11/105
Electrical control of supply of combustible mixture or its constituents	F02D 41/00
Circuits for controlling automatic idle-start-stop of engines	F02N 11/0814
Ratio selector apparatus, the ratio being infinitely variable	F16H 59/06
Control of hydrostatic gearing	F16H 61/40
Controlling members for hand actuation by pivoting movement in general, e.g. levers	G05G 1/04
Controlling members for hand actuation by rotary movement in general, e.g. hand wheels	G05G 1/08

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Controlling members by foot in general	G05G 1/30
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Special rules of classification

Replace: The Special rules text with the revised text below.

Use of the Indexing Code scheme is mandatory. When classifying in group **B60K 26/00** classification must also be made in groups under **B60K 26/00** for additional features of accelerator, in **B60Y 2400/00** for special features in general, in **B60Y 2300/00** in order to identify the purpose and in **B60W 10/00** for the multiple controlled sub-units and in **B60W 2510/00** - **B60W 2530/213** for controller input parameters and **B60W 2710/00** - **B60W 2720/406** for the output target values.

B60K 28/00

Definition statement

Replace: The Definition statement text with the revised text below.

The arrangements and mountings of safety systems responsive to:

- conditions relating to the driver, as presence or incapacity;
- conditions relating to the vehicle, as doors or cargo;
- skidding of the wheels;

for inhibiting the vehicle driving connection by acting on a single particular sub-unit:

- cutting ignition or fuel supply;
- switching off the battery;
- reducing engine torque;
- opening a clutch or other driving connection;
- sending a signal to the exterior.

References

Limiting references

Replace: The Limiting references table with the revised table below.

Electric safety devices on electrically-propelled vehicles	B60L 3/00
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Informative references

Replace: The Informative references table with the revised table below.

Control of airbags or occupant passive safety systems	B60R 21/01
Brake control systems for vehicle drive stability control of vehicle	B60T 8/1755
Arrangements responsive to a speed condition, e.g. acceleration or deceleration for adjusting wheel braking force	B60T 8/32
Road vehicle drive control systems for purposes not related to the control of a particular sub-unit	B60W 30/00
Driving stability by controlling multiple propulsion units	B60W 30/02
Active safety systems predicting or avoiding probable or impending collision by taking automatic action	B60W 30/08
Propulsion control with conjoint control of two or more sub-units for wheel slip	B60W 30/18172
Means for informing the driver, warning the driver or prompting a driver intervention	B60W 50/08
Limiting control by the driver depending on vehicle state, e.g. interlocking means for the control input for preventing unsafe operation	B60W 50/12
Drive control systems specially adapted for autonomous road vehicles	B60W 60/00
Preventing wheel slippage by reducing power in rail vehicles	B61C 15/00

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Alarms for ensuring the safety of persons, anti-dozing alarms	G08B 21/00
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Special rules of classification

Replace: The Special rules text with the revised text below.

Use of the Indexing Code scheme is mandatory. When classifying in group [B60K 28/00](#) classification must also be made in groups [B60K 28/00](#) - [B60K 2028/003](#) for additional features of safety control, in [B60Y 2400/00](#) for special features in general, in [B60Y 2300/00](#) in order to identify the purpose and in [B60W 10/00](#) for multiple particular sub-units and in [B60W 2510/00](#) - [B60W 2530/213](#) for controller input parameters and in [B60W 2710/00](#) - [B60W 2720/406](#) for the output target values.

B60K 31/00

Definition statement

Replace: The Definition statement text with the revised text below.

- Control systems for cruise control or speed limiting control of any particular single vehicle sub-unit;
- Control systems of a single vehicle sub-unit for adaptive cruise control [ACC] or for controlling distance between vehicles, in particular distance from a host vehicle to a preceding vehicle;
- Driver inputs to the cruise control systems comprising switches or levers for setting a target or reference vehicle speed;
- Control methods for controlling a single sub-unit or algorithms therefore for: selecting a target vehicle; detecting a distance and/or a speed of a target vehicle and comparing to a reference distance; setting or adapting the reference distance according to driving conditions; releasing or inhibiting the speed control, for example, in case of brake pedal actuation and resuming the speed control;
- Servomechanisms of electric, hydraulic or mechanical type to regulate the vehicle speed;
- Target outputs (analogue or digital) to the controller of a particular sub-unit to regulate a vehicle speed;

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- Interactions with the driver, displaying target speeds, warning in case of excessive speeds.

Relationships with other classification places

Replace: The Relationships section text with the revised text below.

B60K 31/00 concerns the vehicle speed controls related to a particular sub-unit, as for example engine or electrical drive motor or brakes, if the invention concerns a cruise control by acting on two or more sub-units as for example engine and brakes than it is classified in **B60W 30/14** which is the application-oriented place covering vehicle drive control systems in general that are not related to a particular sub-unit or used for conjoint control.

Detecting means in general (e.g. ultrasonic radars **G01S 7/00**, TV cameras **H04N**, rear view cameras **B60R 1/00**, image processing, or measuring means) are covered by the classes **G01**, **G06** or **H04** and their appropriate subclasses.

Human-computer interfaces, e.g. keyboards are classified in **G06F 3/00**.

Displays in general are classified in **B60K 35/22**.

Driver warnings in general are classified in **B60W 50/08**.

References

Delete: The entire Limiting references section.

Informative references

Replace: The Informative references table with the revised table below.

Control systems for conjoint control of vehicle sub-units of different type or different function	B60W 10/00
Cruise control using conjoint control of vehicle sub-units	B60W 30/14

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Estimations or calculations of driving parameters for road vehicle drive systems that are used for purposes of cruise control	B60W 40/00
Controlling combustion engines	F02D
Controlling combustion engines, such controlling being peculiar to the devices driven thereby, the devices being other than parts or accessories essential to engine operation, e.g. controlling of engines by signals external thereto	F02D29/00
Electrical control of supply of combustible mixture or its constituents	F02D 41/00
Control of hydrostatic transmissions for achieving a target output speed	F16H 61/47
Speedometers	G01P
Systems for controlling position, course, altitude or attitude of land, water, air or space vehicles	G05D 1/00
Systems for controlling speed	G05D 13/00
Traffic control systems for road vehicles	G08G 1/00
Anti-collision systems	G08G 1/16