

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 831

DATE: MAY 1, 2020

PROJECT RP0417

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:	B60C	2011/0325
Symbols New:	B60C	23/00305, 23/00309, 23/00318, 23/00327, 23/00336, 23/00345, 23/00347, 23/00354, 23/00363, 23/00372, 23/00381, 23/0039, 23/04985, 23/121, 23/123, 23/124, 23/126, 23/127, 23/129, 23/131, 23/133, 23/135, 23/137
Titles Changed:	B60C	23/00, 23/003, 23/10, 23/16
Warnings New:	B60C	23/003, 23/00305, 23/00309, 23/00345, 23/00354, 23/00363, 23/00372, 23/00381, 23/0039, 23/0498, 23/04985, 23/12, 23/121, 23/126, 23/127, 23/129, 23/131, 23/133, 23/135, 23/137
DEFINITIONS:		
Definitions New:	B60C	23/00, 23/001, 23/00305, 23/00318, 23/00347, 23/00354, 23/004, 23/04985, 23/10, 23/12, 23/121, 23/126, 23/127, 23/131, 23/133, 23/135, 23/137

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)

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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 B60C – VEHICLE TYRES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g.</u> <u>0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
U	B60C 11/0316	3	{further characterised by the groove cross-section}	
D	B60C 2011/0325	2	{Irregular patterns with particular pitch sequence}	<Administrative transfer to B60C11/0318>
U	B60C 19/127	2	{for inner tubes}	
M	B60C 23/00	0	Devices for measuring, signalling, controlling, or distributing tyre pressure or temperature, specially adapted for mounting on vehicles (measuring in general G01, e.g. G01L 17/00; remote signalling in general G08); Arrangement of tyre inflating devices on vehicles, e.g. of pumps, of tanks (air pumps per se F04; tanks per se F17C); Tyre cooling arrangements	
C	B60C 23/003	2	{comprising rotational joints between vehicle-mounted pressure sources and the tyres}	B60C23/003, B60C23/00305, B60C23/00309, B60C23/00318, B60C23/00327, B60C23/00336, B60C23/00345, B60C23/00347, B60C23/00354, B60C23/00363, B60C23/00372, B60C23/00381, B60C23/0039
N	B60C 23/00305	3	{Wheel circumventing supply lines, e.g. not through or about the axles}	
N	B60C 23/00309	3	{characterised by the location of the components, e.g. valves, sealings, conduits or sensors}	
N	B60C 23/00318	4	{on the wheels or the hubs}	
N	B60C 23/00327	5	{integrally with the hub caps}	
N	B60C 23/00336	4	{on the axles}	
N	B60C 23/00345	3	{Details of the rotational joints}	
N	B60C 23/00347	4	{comprising two or more feedthrough}	

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<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>
N	B60C 23/00354	3	{Details of valves}	
N	B60C 23/00363	3	{Details of sealings}	
N	B60C 23/00372	3	{characterised by fluid diagrams}	
N	B60C 23/00381	3	{specially adapted for steerable wheels}	
N	B60C 23/0039	3	{specially adapted for driven wheels}	
U	B60C23/0496	4	{Valve stem attachments positioned outside of the tyre chamber}	
C	B60C 23/0498	4	{for rim attachments (B60C23/0494, B60C23/0496 take precedence)}	B60C23/0498, B60C23/04985
N	B60C 23/04985	5	{using straps surrounding the rims}	
U	B60C 23/085	3	{putting directly into action an audible signal}	
M	B60C 23/10	1	Arrangements of tyre-inflating pumps mounted on vehicles	
U	B60C 23/105	2	{the pump being mounted in the saddle-pillar of a bicycle}	
C	B60C 23/12	2	operated by a running wheel	B60C23/12, B60C23/121, B60C23/123, B60C23/124, B60C23/126, B60C23/127, B60C23/129, B60C23/131, B60C23/133, B60C23/135, B60C23/137
N	B60C 23/121	3	{the pumps being mounted on the tyres}	
N	B60C 23/123	4	{Elongate peristaltic pumps}	
N	B60C 23/124	4	{Bladders}	
N	B60C 23/126	3	{the pumps being mounted on the wheel rims}	
N	B60C 23/127	3	{the pumps being mounted on the hubs}	
N	B60C 23/129	3	{the pumps being mounted on wheel spokes}	
N	B60C 23/131	3	{activated by force of gravity}	
N	B60C 23/133	3	{activated by centrifugal force}	
N	B60C 23/135	3	{activated due to tyre deformation}	
N	B60C 23/137	3	{comprising cam driven pistons}	
U	B60C 23/14	2	operated by the prime mover of the vehicle	
M	B60C 23/16	1	Arrangements of air tanks mounted on vehicles	

*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

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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.

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B. New, Modified or Deleted Warning(s)

SUBCLASS B60C – VEHICLE TYRES

Type*	Location	Old Warning	New/Modified Warning
N	B60C 23/003		Group B60C 23/003 is impacted by reclassification into groups B60C 23/00305 -B60C 23/0039. All groups listed in this Warning should be considered in order to perform a complete search.
N	B60C 23/00305		Group B60C 23/00305 is incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/00305 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/00309		Groups B60C 23/00309 – B60C 23/00336 are incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/00309 – B60C 23/00336 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/00345		Groups B60C 23/00345 and B60C 23/00347 are incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/00345, B60C 23/00347 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/00354		Group B60C 23/00354 is incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/00354 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/00363		Group B60C 23/00363 is incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/00363 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/00372		Group B60C 23/00372 is incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/00372 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/00381		Group B60C 23/00381 is incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/00381 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/0039		Group B60C 23/0039 is incomplete pending reclassification of documents from group B60C 23/003. Groups B60C 23/0039 and B60C 23/003 should be considered in order to perform a complete search.
N	B60C 23/0498		Group B60C 23/0498 is impacted by reclassification into group B60C 23/04985. Groups B60C 23/0498 and B60C 23/04985 should be considered in order to perform a complete search.
N	B60C 23/04985		Group B60C 23/04985 is incomplete pending reclassification of documents from group B60C 23/0498. Groups B60C 23/04985 and B60C 23/0498 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B60C 23/12		Group B60C 23/12 is impacted by reclassification into groups B60C 23/121 - B60C 23/137. All groups listed in this Warning should be considered in order to perform a complete search.
N	B60C 23/121		Groups B60C 23/121 – B60C 23/124 are incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/121 – B60C 23/124 and B60C 23/12 should be considered in order to perform a complete search.
N	B60C 23/126		Group B60C 23/126 is incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/126 and B60C 23/12 should be considered in order to perform a complete search.
N	B60C 23/127		Group B60C 23/127 is incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/127 and B60C 23/12 should be considered in order to perform a complete search.
N	B60C 23/129		Group B60C 23/129 is incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/129 and B60C 23/12 should be considered in order to perform a complete search.
N	B60C 23/131		Group B60C 23/131 is incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/131 and B60C 23/12 should be considered in order to perform a complete search.
N	B60C 23/133		Group B60C 23/133 is incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/133 and B60C 23/12 should be considered in order to perform a complete search.
N	B60C 23/135		Group B60C 23/135 is incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/135 and B60C 23/12 should be considered in order to perform a complete search.
N	B60C 23/137		Group B60C 23/137 is incomplete pending reclassification of documents from group B60C 23/12. Groups B60C 23/137 and B60C 23/12 should be considered in order to perform a complete search.

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

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

2. A. DEFINITIONS (new)

B60C 23/00

Definition statement

This place covers:

Devices that are adapted for mounting on vehicles and are operational while the vehicle is moving.

Automatically distributing tyre pressure.

Monitoring tyre pressure status:

- Directly by measuring tyre air pressure.
- Indirectly by monitoring tyre deformation.

Monitoring tyre temperature status.

Arrangement of tyre inflating pumps.

Arrangement of air tanks.

Tyre cooling arrangements.

References

Informative references

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

Devices for introducing sealing compositions into articles	B29C73/166
Producing pneumatic tyres or parts thereof	B29D30/06
Tyre parts or constructions not otherwise provided for	B60C19/00
Tyre inflating devices, supplying air for tyre inflation	B60S5/04
Air pumps per se	F04
Tanks per se	F17C
Tyre valves	F16K15/20
Check valves for inflatable bodies, e.g. tyres	F16K15/207
Measuring distance traversed on the ground by vehicles	G01C22/00
Housings for sensors	G01D11/245

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Devices for measuring tyre pressure (e.g. hand held pressure gauges)	G01L17/00
Testing of tyres	G01M17/02
Antennas for use in vehicles	H01Q1/32

Tyre mounted electrical circuits

Attaching fasteners to tyres	B29D2030/0072
Directly attaching monitoring devices to tyres	B29D2030/0077
Attaching monitoring devices by inserting them inside tyre cavities	B29D2030/0083
Tyre sensors other than for detecting tyre pressure	B60C2019/004
Sensors measuring tyre wear	B60C11/243
Tyre sensors for brake control	B60T8/1725
Sensors mounted on wheel or tire	B60W2422/70
Tyre mounted RFID devices	G06K19/07764
Tyre mounted antennas	H01Q1/2241

Powering electrical circuits

Mechanical power producing mechanisms	F03G7/00
Transponder powered from received waves	G01S13/75
Piezo-electric generators in general	H01L41/113
Supplying or distributing electric power by electromagnetic waves	H02J17/00
Electric generators per se	H02K
Rotary generators associated with wheels	H02K7/1846

Wireless transmission of measurements

Pressure measurements for remote indication	G01L19/086
Registering or indicating the working of vehicles and communicating information to a remotely located station	G07C5/008
Transmission of measured signals using a wireless link	G08C17/00
Near field transmission systems	H04B5/00
Radio transmission systems	H04B7/00

Sensors per se

Temperature sensors	G01K
Pressure and force sensing	G01L

Special rules of classification

References G01, G01L 17/00, G08, F04, F17C are non-limiting in the main group B60C23/00. CPC will be updated/corrected once this inconsistency is resolved in IPC.

B60C 23/001

References

Informative references

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

Devices for introducing sealing compositions into articles	B29C73/166
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B60C 23/00305

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

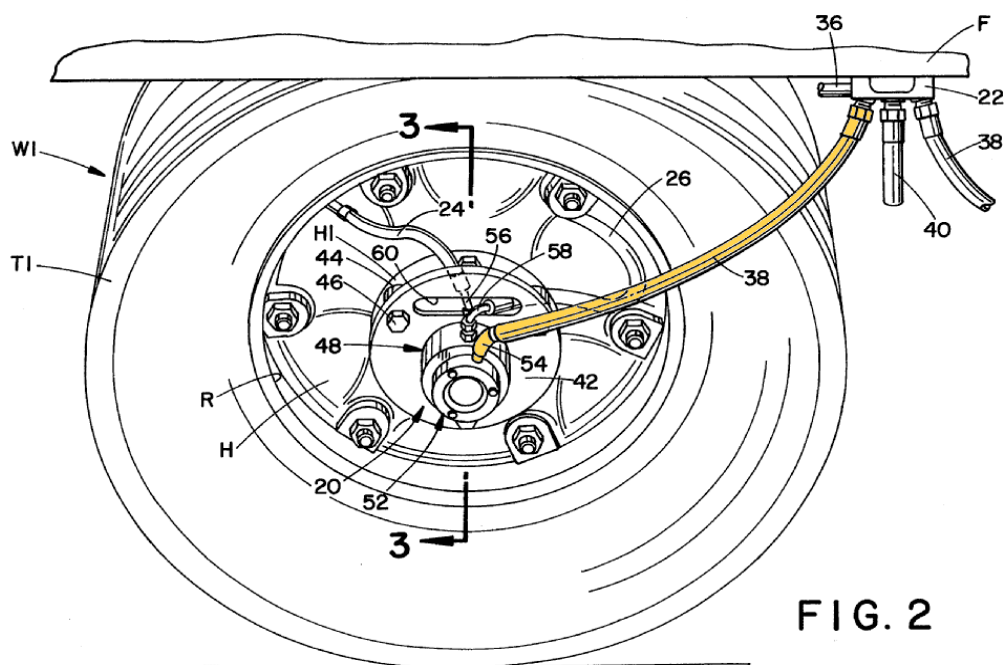


FIG. 2

B60C 23/00318

References

Informative references

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

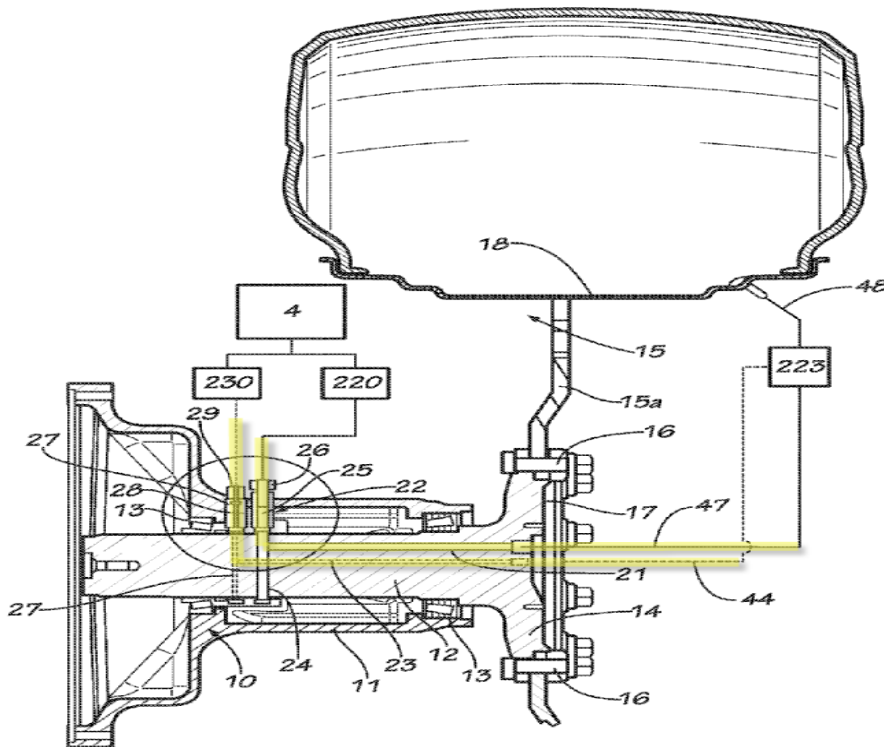
Hubs	B60B27/00
Vehicle wheels	B60B

B60C 23/00347

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



B60C 23/00354

References

Informative references

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

Valves; taps; cocks; actuating-floats; devices for venting or aerating	F16K
--	------

B60C 23/004

References

Informative references

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

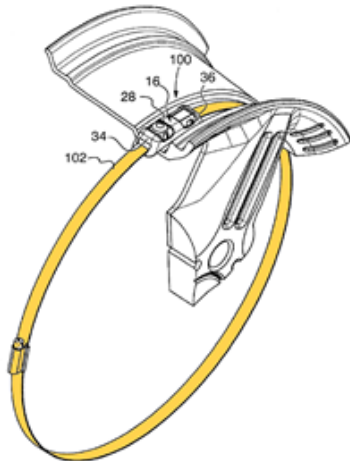
Pumps operated by a running wheel	B60C23/12
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B60C 23/04985

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



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B60C 23/10**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Devices for manually or automatically controlling or distributing tyre pressure whilst the vehicle is moving	B60C23/001
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B60C 23/12**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Wheel mounted reservoirs	B60C 23/004
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B60C 23/121**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Attaching fasteners to tyres, e.g. patches, in order to connect devices to tyres	B29D 2030/0072
Tyre parts or constructions not otherwise provided for	B60C 19/00

B60C 23/126

References

Informative references

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

Vehicle wheels	B60B
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B60C 23/127

References

Informative references

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

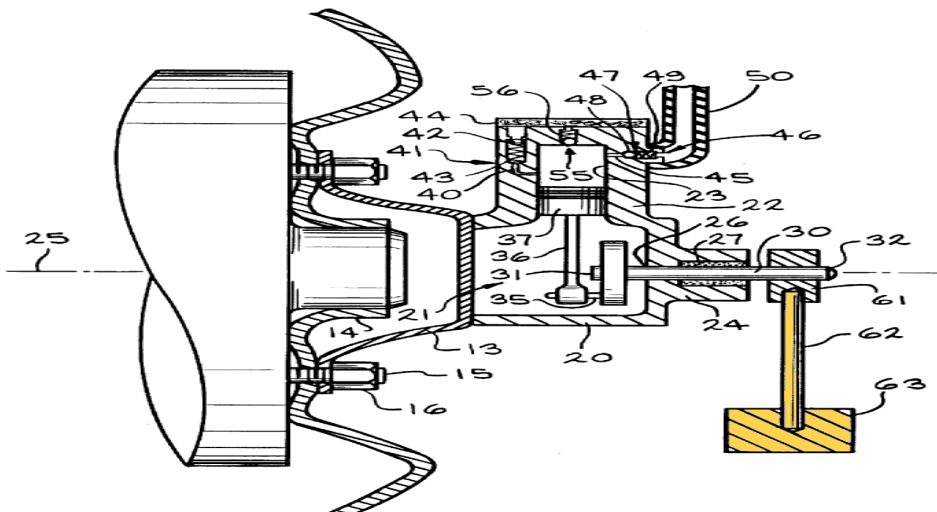
Hubs	B60B 27/00
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B60C 23/131

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



B60C 23/133

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

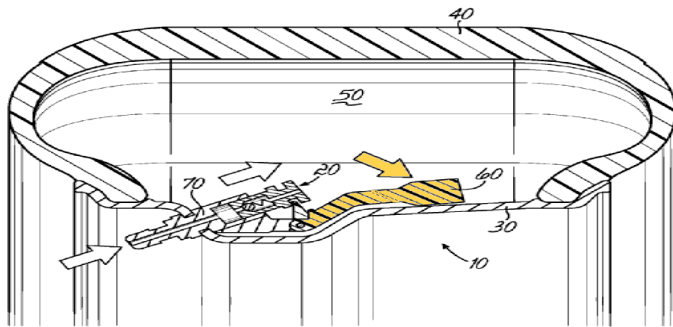
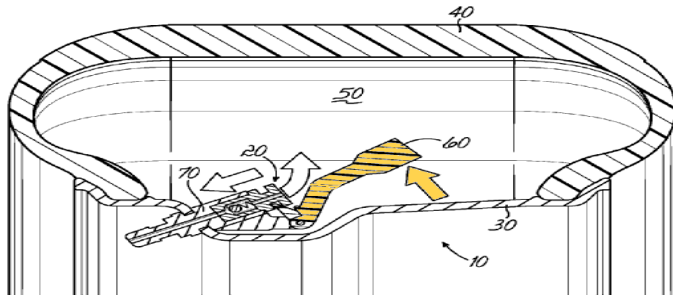


FIG. 1

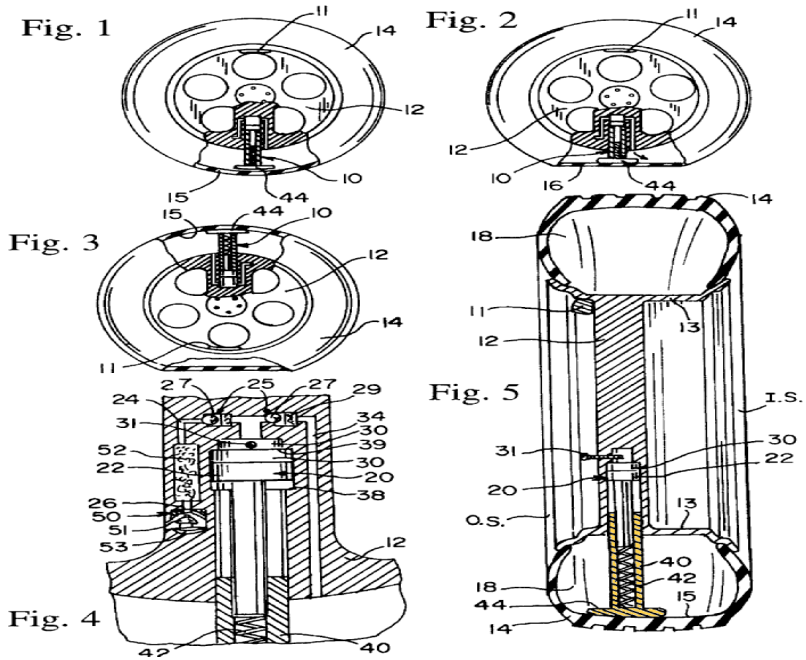


B60C 23/135

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.

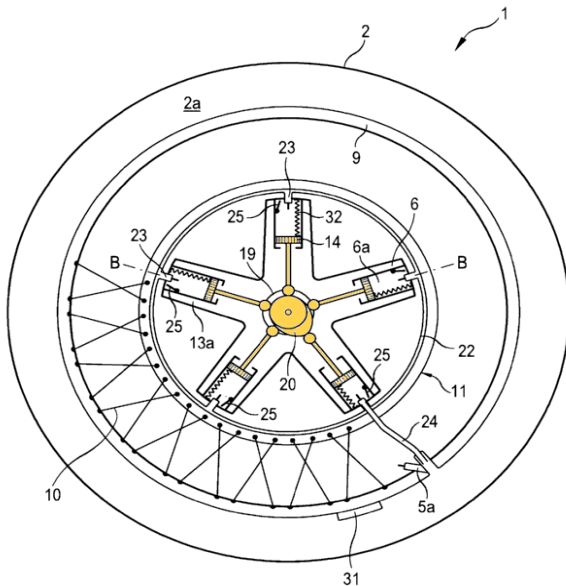


B60C 23/137

Definition statement

This place covers:

Illustrative example of subject matter classified in this group.



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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B60C 2011/0325	<Administrative transfer to B60C 11/0318>
C	B60C 23/003	B60C 23/003, B60C 23/00305, B60C 23/00309, B60C 23/00318, B60C 23/00327, B60C 23/00336, B60C 23/00345, B60C 23/00347, B60C 23/00354, B60C 23/00363, B60C 23/00372, B60C 23/00381, B60C 23/0039
C	B60C 23/0498	B60C 23/0498, B60C 23/04985
C	B60C 23/12	B60C 23/12, B60C 23/121, B60C 23/123, B60C 23/124, B60C 23/126, B60C 23/127, B60C 23/129, B60C 23/131, B60C 23/133, B60C 23/135, B60C 23/137

* 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.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B60C 2011/0325		DELETE
B60C 23/00305	B60C23/00	NEW
B60C 23/00309	B60C23/00	NEW
B60C 23/00318	B60C23/00	NEW
B60C 23/00327	B60C23/00	NEW
B60C 23/00336	B60C23/00	NEW
B60C 23/00345	B60C23/00	NEW
B60C 23/00347	B60C23/00	NEW
B60C 23/00354	B60C23/00	NEW
B60C 23/00363	B60C23/00	NEW
B60C 23/00372	B60C23/00	NEW
B60C 23/00381	B60C23/00	NEW
B60C 23/0039	B60C23/00	NEW
B60C 23/04985	B60C23/04	NEW
B60C 23/121	B60C23/12	NEW
B60C 23/123	B60C23/12	NEW
B60C 23/124	B60C23/12	NEW
B60C 23/126	B60C23/12	NEW
B60C 23/127	B60C23/12	NEW
B60C 23/129	B60C23/12	NEW
B60C 23/131	B60C23/12	NEW
B60C 23/133	B60C23/12	NEW
B60C 23/135	B60C23/12	NEW
B60C 23/137	B60C23/12	NEW

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