

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1670

DATE: JANUARY 1, 2025

PROJECT MP12266

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:	B04B	9/146
	B65H	2601/124
	F01D	5/027
	F03G	7/107
	F04D	29/662
	F16F	15/32, 15/36
	G05B	2219/37349, 2219/49177
	H01H	2089/005
	H02H	3/334
	H03H	9/0023
	H03J	1/187
DEFINITIONS:		
Definitions Modified:	B29D	30/0633
	B60C	25/00
	F03G	3/02, 3/091
	G01H	SUBCLASS
	G01M	1/12
	G01M	1/34
	G01M	17/024
	H01H	83/02

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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B04B - CENTRIFUGES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B04B9/146	2	{Imbalance detection devices}	

SUBCLASS B65H - HANDLING THIN OR FILAMENTARY MATERIAL, e.g. SHEETS, WEBS, CABLES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B65H 2601/124	3	Imbalance	

SUBCLASS F01D - NON-POSITIVE DISPLACEMENT MACHINES OR ENGINES, e.g. STEAM TURBINES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	F01D5/027	2	{Arrangements for balancing (for balancing rotating bodies in general F16F15/32; for compensating imbalance G01M1/36)}	

SUBCLASS F03G - SPRING, WEIGHT, INERTIA OR LIKE MOTORS; MECHANICAL-POWER PRODUCING DEVICES OR MECHANISMS, NOT OTHERWISE PROVIDED FOR OR USING ENERGY SOURCES NOT OTHERWISE PROVIDED FOR

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
U	F03G3/091	2	{using unbalanced wheels}	
M	F03G7/107	3	{using an imbalance for increasing torque or saving energy}	

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SUBCLASS F04D - NON-POSITIVE-DISPLACEMENT PUMPS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	F04D29/662	3	{Balancing of rotors (compensating imbalance G01M1/36)}	

SUBCLASS F16F - SPRINGS;SHOCK-ABSORBERS;MEANS FOR DAMPING VIBRATION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	F16F15/32	1	Correcting- or balancing-weights or equivalent means for balancing rotating bodies, e.g. vehicle wheels {(suppression of vibrations in rotating systems by using freely rotating masses F16F15/14; compensation of inertia forces F16F15/22; compensating im balance for testing purposes G01M1/30)}	
M	F16F15/36	2	operating automatically {, i.e. where, for a given amount of imbalance, there is movement of masses until balance is achieved (damping vibrations of washing machines by displacing, supplying or ejecting a material, e.g. liquid, into or from counterbalancing pockets D06F37/245)}	

SUBCLASS G05B - CONTROL OR REGULATING SYSTEMS IN GENERAL; FUNCTIONAL ELEMENTS OF SUCH SYSTEMS; MONITORING OR TESTING ARRANGEMENTS FOR SUCH SYSTEMS OR ELEMENTS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	G05B 2219/37349	3	Imbalance of tool or tool holder	
M	G05B 2219/49177	3	Runout, eccentricity, imbalance of tool or workpiece	

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SUBCLASS H01H - ELECTRIC SWITCHES; RELAYS; SELECTORS; EMERGENCY PROTECTIVE DEVICES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
U	H01H71/16	4	with bimetal element {(combined with detection of imbalance of two or more currents H01H 83/223)}	
M	H01H2089/005	1	{Multi-purpose combinations, e.g. LS/DI, LS/FI, of normal protective circuit breakers with known other forms of protection, e.g. earthfaults, differential, imbalance}	

SUBCLASS H02H - EMERGENCY PROTECTIVE CIRCUIT ARRANGEMENTS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	H02H3/334	4	{with means to produce an artificial imbalance for other protection or monitoring reasons or remote control (H02H3/338 takes precedence)}	

SUBCLASS H03H - IMPEDANCE NETWORKS, e.g. RESONANT CIRCUITS; RESONATORS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	H03H9/0023	1	{Networks for transforming balanced signals into unbalanced signals and vice versa, e.g. baluns, or networks having balanced input and output}	

SUBCLASS H03J - TUNING RESONANT CIRCUITS; SELECTING RESONANT CIRCUITS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	H03J1/187	2	{a automatic balancing of auxiliary power that has been unbalanced by a controlling device, e.g. a Wheatstone bridge}	

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*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).
- 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.

2. A. DEFINITIONS (modified)

B29D 30/0633

Definition statement

Delete: The end of the first bullet (“ e.g. US 3017669, BE 568778, DE 4006182;”) so that the updated Definition statement appears as follows.

- improving tyre uniformity, e.g. by adding or removing material, or deforming the tyre;
- measuring tyre uniformity;
- marking, labelling tyres;
- awling, venting tyres.

References

Informative references

Replace: The Informative references table with the following updated table.

Machines or devices designed for grinding surfaces of revolution on work, including those which also grind adjacent plane surfaces; Accessories therefor; Single-purpose machines or devices; For grinding tyres	B24B 5/366
Measuring or gauging equipment for controlling the feed movement of the grinding tool or work; Arrangements of indicating or measuring equipment, e.g. for indicating the start of the grinding operation, taking regard of the load; For grinding tyres	B24B 49/165
Testing static or dynamic balance of machines or structures	G01M 1/00
Determining imbalance	G01M 1/14
Compensating imbalance	G01M 1/30
Testing of vehicles; Of wheeled or endless-tracked vehicles; Of tyres	G01M 17/02

B60C 25/00

Definition statement

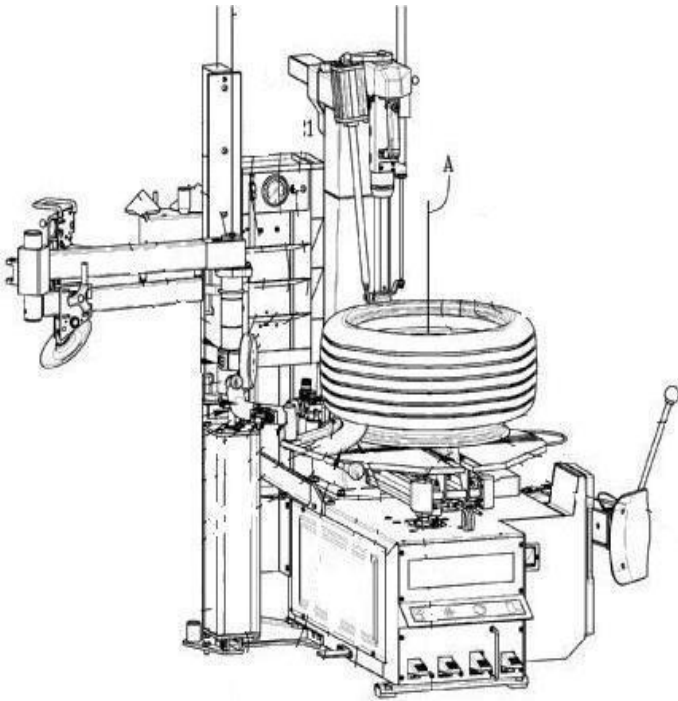
Replace: The existing Definition statement with the following updated text.

This place covers:

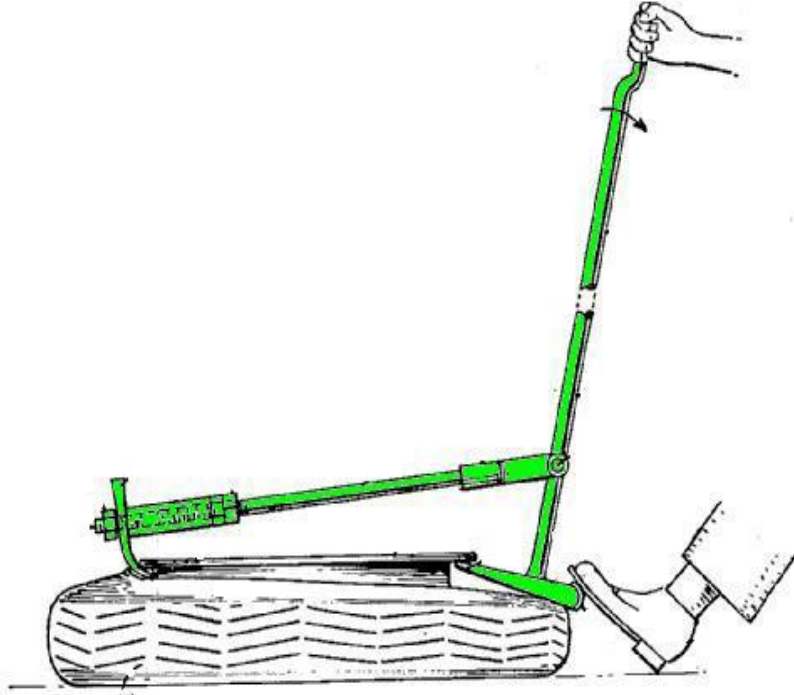
- Hand-tools and machines for mounting or demounting a tyre on/from a rim portion.
- Demounting machines also include separation of tyres from rims by destroying one or both parts.

Illustrative examples of subject matter classified in this place:

1.



2.



References

Informative references

Replace: The existing Informative references table with the following updated table.

Rims per se	B60B 21/00
Hand-tools or machines for mounting or demounting wheels to/from a vehicle axle	B60B 29/00
Means for holding wheels or parts thereof	B60B 30/00
Balancing of wheels	G01M 1/045
Compensation of imbalance or matching of tyres	G01M 1/30
Compensation of imbalance by removing material from the tyre tread	G01M 1/34

F03G3/02

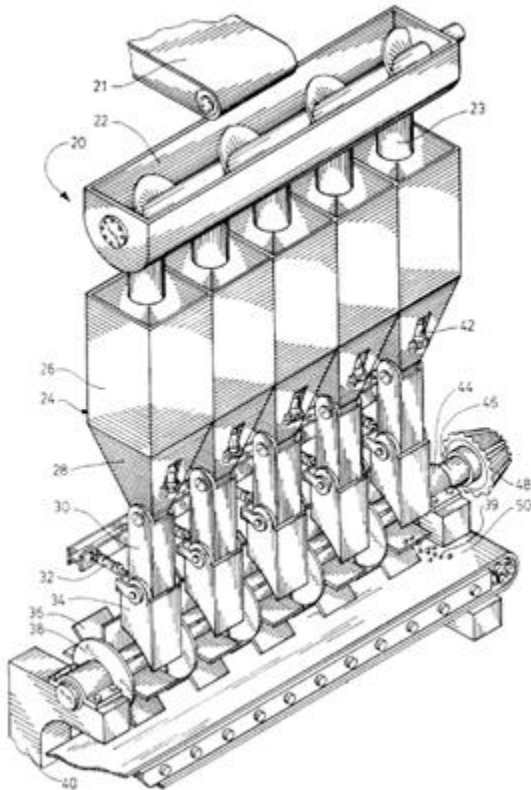
Definition statement

Replace: The existing Definition statement with the following updated text and image.

This place covers:

Wheels cooperating with solid falling bodies coming from outside of the wheel and causing an imbalance on and a rotation of the wheel.

Illustrative example of subject matter classified in this place:



References

Informative references

Replace: The last row of the Informative references table with the following updated text.

Using an imbalance for increasing torque or saving energy	F03G 7/107
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F03G3/091

Definition statement

Replace: The existing Definition statement with the following updated text. The figures have not been modified, though their location within the text has changed.

The wheel is unbalanced and thus the wheel rotation is generated by moving the gravity point of one or several masses within the wheel between a position close to the wheel rotation axis and a position far from the wheel rotational axis. For the movement of the mass or masses, a specific input of energy is required.

Illustrative examples of subject matter classified in this place:

- 1.

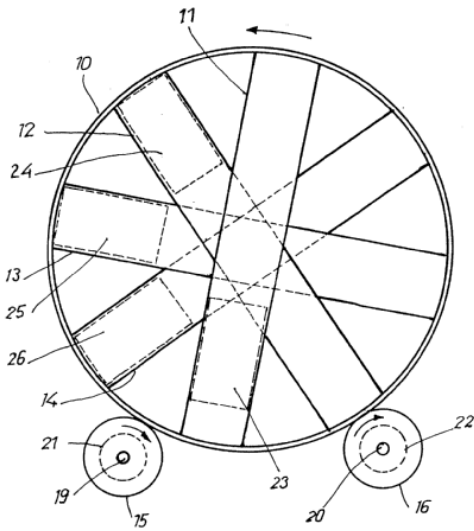


Figure 1 illustrates a device for converting mechanical energy into electrical energy, in which a weight (23-26) is arranged so as to be periodically displaceable by mechanical, hydraulic or pneumatic means against the direction of gravity, in which further at least one duct (11-14) extending in a diametral direction and arranged in a circular frame rotatable about its middle transverse axis is provided. In this arrangement the frame (10) is drive connected at the circumference to at least one electrical generator (21, 22).

2.

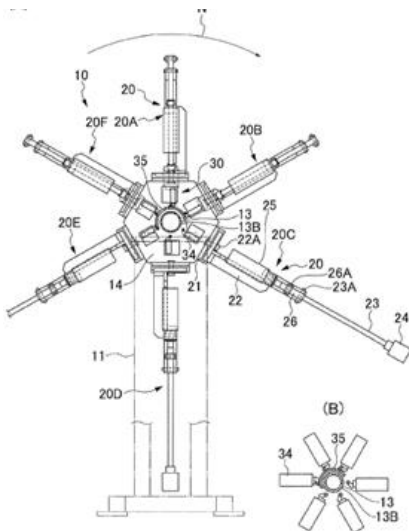
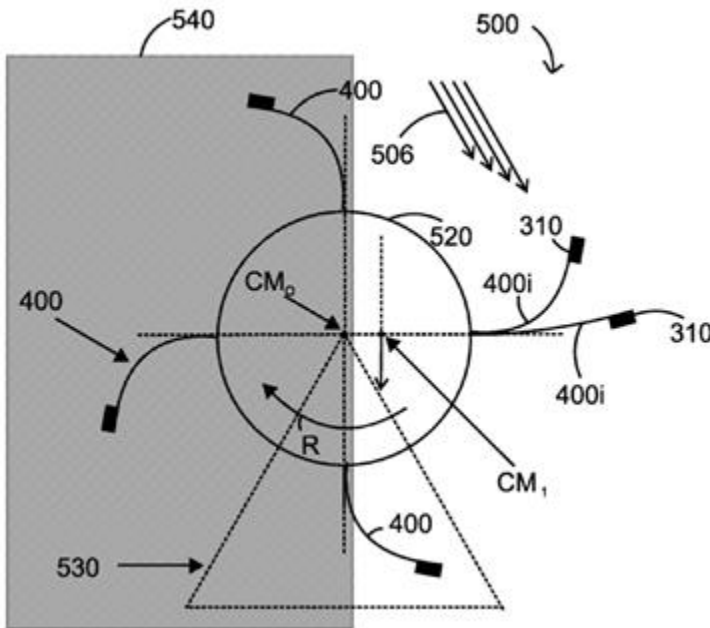


Figure 2 illustrates a rotary device of the unbalanced wheel type with weights actuated by hydraulic motors.

Relationships with other classification places

Replace: The existing Relationships text with the following updated text. The figure has not been modified, though its location within the text has changed.

If the movement of the gravity point of the respective mass or masses is effected by solar energy, only group [F03G6/002](#) is to be considered.



The figure illustrates a solar-powered device (500) that includes a central hub (520); plural curved blades (400) attached to the central hub (20); and plural weights (310) connected to the plural curved blades (400). A curved blade (400i) of the plural curved blades (400) has a proximal end attached to the central hub (520) and a distal end attached to a corresponding weight (310), and wherein the curved blade (400i) is made of a material that changes its geometry when exposed to solar energy.

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References

Informative references

Replace: The last row of the Informative references table with the following updated text.

Using an imbalance for increasing torque or saving energy	F03G7/107
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G01H

References

Informative references

Replace: The text in the following row in the Informative references table.

Testing dynamic balance of machines or structure, determining imbalance	G01M 1/14
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G01M 1/12

References

Limiting references

Replace: The text in the existing Limiting references table with the following updated text.

Determining imbalance by dynamic methods	G01M 1/14
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G01M 1/34

Definition statement

Replace: The existing Definition statement with the following updated text.

Devices for compensating imbalance by removing by grinding or drilling.

G01M 17/024

References

Informative references

Replace: The text in the existing Informative references table with the following updated text.

Marking location of imbalance	G01M 1/26
Compensating imbalance by removing material	G01M 1/34

H01H 83/02

References

Limiting references

Replace: The text in the existing Limiting references table with the following updated text.

Operated by imbalance of two or more currents or voltages, e.g. for differential protection	H01H 83/14
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