

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 763

DATE: JANUARY 1, 2020

PROJECT RP0654

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols New:	G01L	5/1623, 5/1627, 5/169, 5/171, 5/173
Titles Changed:	G01L	SUBCLASS
	G01L	1/00, 1/18, 1/22,
	G01L	3/20, 3/205, 3/24
	G01L	5/00, 5/04, 5/10, 5/101, 5/102, 5/103, 5/105, 5/106, 5/107, 5/108, 5/161, 5/162, 5/163, 5/164, 5/165, 5/166, 5/167, 5/168, 5/20, 5/24, 5/286
	G01L	7/00, 7/022, 7/024, 7/026, 7/028
	G01L	9/00
	G01L	13/00
	G01L	15/00
	G01L	17/00
	G01L	19/08
	G01L	21/30
	G01L	23/32
	G01L	25/00
Warnings New:	G01L	5/16, 5/161, 5/1623, 5/1627, 5/169, 5/171, 5/173
DEFINITIONS:		
Definitions Modified:	G01L	SUBCLASS
	G01L	1/00, 3/00, 5/00, 7/00, 9/00

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)

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- 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 G01L – MEASURING FORCE, STRESS, TORQUE, WORK, MECHANICAL POWER, MECHANICAL EFFICIENCY, OR FLUID PRESSURE (weighing G01G)**

<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>
M	G01L	SUBCLASS	MEASURING FORCE, STRESS, TORQUE, WORK, MECHANICAL POWER, MECHANICAL EFFICIENCY, OR FLUID PRESSURE (weighing G01G)	
M	G01L1/00	0	Measuring force or stress, in general (measuring force due to impact G01L5/00)	
M	G01L1/18	1	using properties of piezo-resistive materials, i.e. materials of which the ohmic resistance varies according to changes in magnitude or direction of force applied to the material	
M	G01L1/22	2	using resistance strain gauges	
M	G01L3/20	2	fluid actuated	
M	G01L3/205	3	{of the air brake type}	
M	G01L3/24	1	Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of torque and revolutions per unit of time, by multiplying the values of tractive or propulsive force and velocity	
M	G01L 5/00	0	Apparatus for, or methods of, measuring force, work, mechanical power, or torque, specially adapted for specific purposes	
M	G01L 5/04	1	for measuring tension in flexible members, e.g. ropes, cables, wires, threads, belts or bands {(G01L5/0004 takes precedence)}	
M	G01L 5/10	2	using electrical means	
M	G01L 5/101	3	using sensors inserted into the flexible member	
M	G01L 5/102	3	using sensors located at a non-interrupted part of the flexible member	
M	G01L 5/103	3	using sensors fixed at one end of the flexible member	
M	G01L 5/105	3	using electro-optical means	
M	G01L 5/106	3	for measuring a reaction force applied on a cantilever beam	
M	G01L 5/107	3	for measuring a reaction force applied on an element disposed between two supports, e.g. on a plurality of rollers or gliders	
M	G01L 5/108	3	for measuring a reaction force applied on a single support, e.g. a glider	
C	G01L 5/16	1	for measuring several components of force	G01L5/16,

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed</u> <u>in {curly brackets}**</u>	<u>Transferred to#</u>
				G01L5/169, G01L5/171, G01L5/173
C	G01L 5/161	2	using variations in ohmic resistance	G01L5/161, G01L5/1623, G01L5/1627
M	G01L 5/162	3	of piezoresistors	
N	G01L 5/1623	3	of pressure sensitive conductors (using piezoresistors G01L 5/162)	
N	G01L 5/1627	3	of strain gauges (using piezoresistors G01L 5/162)	
M	G01L 5/163	3	of potentiometers	
M	G01L 5/164	2	using variations in inductance	
M	G01L 5/165	2	using variations in capacitance	
M	G01L 5/166	2	using photoelectric means	
M	G01L 5/167	2	using piezo-electric means	
M	G01L 5/168	2	using counterbalancing forces	
N	G01L 5/169	2	using magnetic means	
N	G01L 5/171	2	using fluid means	
N	G01L 5/173	2	using acoustic means	
M	G01L 5/20	1	for measuring wheel side-thrust	
M	G01L5/24	1	for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed	
M	G01L5/286	2	{Measuring deceleration}	
M	G01L 7/00	0	Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements ({G01L 11/04 takes precedence;} transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric { , e.g. photoelectric } or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L13/00; measuring two or more pressure values simultaneously G01L 15/00 { ; pressure sensitive fluidum level or volume measuring devices G01F 17/00, G01F 23/14; pressure sensitive depth meters G01C 13/008; aircraft altitude meters G01C 5/005})	
M	G01L 7/022	2	{constructional details, e.g. mounting of elastically-deformable gauges (G01L7/041, G01L7/061, G01L7/082, G01L7/102, G01L7/163, G01L7/182 take precedence)}	
M	G01L 7/024	2	{with mechanical transmitting or indicating means (G01L7/043, G01L7/063, G01L7/084, G01L7/104, G01L7/166, G01L7/185 take precedence)}	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed</u> <u>in {curly brackets}**</u>	<u>Transferred to#</u>
M	G01L 7/026	2	{ with optical transmitting or indicating means (G01L7/045, G01L7/065, G01L7/086, G01L7/106, G01L7/187 take precedence)}	
M	G01L 7/028	2	{correcting or regulating means (G01L7/048, G01L7/068, G01L7/088, G01L7/108 take precedence)}	
M	G01L 9/00	0	Measuring steady or quasi-steady pressure of fluid or fluent solid material by electric or magnetic pressure-sensitive elements {(G01L 11/004 takes precedence)}; Transmitting or indicating the displacement of mechanical pressure-sensitive elements, used to measure the steady or quasi-steady pressure of a fluid or fluent solid material, by electric or magnetic means (measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00)	
M	G01L 13/00	0	Devices or apparatus for measuring differences of two or more fluid pressure values	
M	G01L 15/00	0	Devices or apparatus for measuring two or more fluid pressure values simultaneously	
M	G01L 17/00	0	Devices or apparatus for measuring tyre pressure or the pressure in other inflated bodies	
M	G01L 19/08	1	Means for indicating or recording, e.g. for remote indication	
M	G01L 21/30	1	by making use of ionisation effects	
M	G01L23/32	2	Apparatus specially adapted for recording pressure changes measured by indicators	
M	G01L 25/00	0	Testing or calibrating of apparatus for measuring force, torque, work, mechanical power, or mechanical efficiency	

*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.

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- 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 G01L – MEASURING FORCE, STRESS, TORQUE, WORK, MECHANICAL POWER, MECHANICAL EFFICIENCY, OR FLUID PRESSURE (weighing G01G)**

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	G01L5/16		Group G01L5/16 is impacted by reclassification into groups G01L5/169, G01L5/171 and G01L5/173. All groups listed in this Warning should be considered in order to perform a complete search.
N	G01L5/161		Group G01L5/161 is impacted by reclassification into groups G01L5/1623 and G01L5/1627. Groups G01L5/161, G01L5/1623 and G01L5/1627 should be considered in order to perform a complete search.
N	G01L 5/1623		Group G01L 5/1623 is incomplete pending reclassification of documents from group G01L 5/161. Groups G01L 5/161 and G01L 5/1623 should be considered in order to perform a complete search.
N	G01L 5/1627		Group G01L 5/1627 is incomplete pending reclassification of documents from group G01L 5/161. Groups G01L 5/161 and G01L 5/1627 should be considered in order to perform a complete search.
N	G01L 5/169		Group G01L 5/169 is incomplete pending reclassification of documents from group G01L 5/16. Groups G01L 5/16 and G01L 5/169 should be considered in order to perform a complete search.
N	G01L 5/171		Group G01L 5/171 is incomplete pending reclassification of documents from group G01L 5/16. Groups G01L 5/16 and G01L 5/171 should be considered in order to perform a complete search.
N	G01L 5/173		Group G01L 5/173 is incomplete pending reclassification of documents from group G01L 5/16. Groups G01L 5/16 and G01L 5/173 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.

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01L	Special rules of classification	<p>The special rules of classification are given at the main-group level in separate templates (with exception of G01L 11/00, G01L 13/00, G01L 15/00, G01L 21/00, G01L 23/00, G01L 27/00, G01L29/00).</p> <p>Special classification rules for the subgroups are given in the main-group templates. The subgroups that are not covered there, are considered clear and correct as such from the wording of the title.</p> <p>In G01L, it is not necessary to classify "additional information", i.e. CPC is only to be used for the classification of invention information and not for classifying additional information.</p>	<p>Delete all of the existing text in the Special rules of classification section and Replace with the following:</p> <p>In G01L, CPC is only to be used for the classification of invention information and not for classifying additional information.</p>
G01L1/00	Limiting references		<p>Delete the following reference from the Limiting references table.</p> <p>Measurement of force due to fluid pressure G01L 7/00-G01L23/00, G01L27/00</p>
G01L1/00	Application-oriented references		<p>Delete the entire section Application-oriented references section</p>
G01L1/00	Informative references		<p>Delete the following reference from the Informative references table.</p> <p>Weighing apparatus characterized by the use of elastically deformable member G01G3/00</p>
G01L1/00	Informative references		<p>Add the following new reference to the Informative references table.</p>

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			Measuring fluid pressure G01L7/00-G01L21/00, G01L27/00
G01L1/00	Special rules of classification	The main Group G01G 3/00 has a similar structure as the main group G01L 1/00, especially between G03G/14 and G01L 1/22.	Delete the last line of the Special rules of classification section and Replace with the following text. The main Group G01G 3/00 has a similar structure as the main group G01L 1/00.
G01L3/00	Limiting references		Delete the entire Limiting references section
G01L5/00	Limiting references		Delete the entire Limiting references section
G01L5/00	Application-oriented references		Insert a new Application-oriented references section with the following reference. Application-oriented references <i>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:</i> Devices for sensing torque of dynamo-electric machines, or actuated thereby H02K 11/24
G01L5/00	Informative references	Measuring golf clubs, bats or rackets ,A63B 51/005, A63B 60/42, A63B 60/46	Delete the comma before A63B 51/005
G01L5/00	Informative references		Add the following two new references: Measuring pressure of a fluent medium G01L7/00-G01L21/00 Measuring rapid changes of pressure in stream, gas, or liquid G01L23/00
G01L5/00	Special rules of classification		Delete the 11 th paragraph of the section:

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			<p>For the search and also classification, apparatus or methods adapted for the controlling of the tension of bending machines in B66H13/22.</p> <p>Delete the 25th paragraph of the section:</p> <p>G01L5/22, For search and classification, the controls for manipulator by means of force, torque, or other sensor see B25J/08.</p> <p>Delete the 30th (last) paragraph of the section:</p> <p>For classification and search see also electrical control system of brakes (B60T17/66).</p>
G01L7/00	Limiting references		<p>Delete the following five references:</p> <p>Measuring tyre pressure or the pressure of other inflated bodies G01L17/00</p> <p>Vacuum gauges G01L21/00</p> <p>Pressure sensor specially adapted for blood pressure control A61M1/3639</p> <p>Diver equipments B63C11/02</p> <p>Hollow bodies deformable or displaceable under internal pressure per se G02B1/04</p> <p>Measuring heights (altimeter for aircraft, with barometer) or depth G01C5/00</p>
G01L7/00	Limiting references		<p>Add the following new reference to the Limiting references table.</p> <p>Measuring heights (altimeter for aircraft, with barometer) or depth G01C5/005</p>

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<p>G01L7/00</p>	<p>Informative references</p>		<p>Insert a new Informative references section with the following three new references:</p> <p><i>Informative references</i></p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Measuring type pressure or the pressure of other inflated bodies G01L17/00</p> <p>Vacuum gauges G01L21/00</p> <p>Hollow bodies deformable or displaceable under internal pressure per se G02B1/04</p>
<p>G01L9/00</p>	<p>Limiting references</p>		<p>Delete the following 11 references:</p> <p>Transmitting or indicating the displacement of mechanical pressure sensitive elements by non electric means G01L7/00</p> <p>Measuring tyre pressure or the pressure of other inflated bodies G01L17/00</p> <p>Vacuum gauges G01L21/00</p> <p>Pressure sensor specially adapted for blood pressure control A61M1/3639</p> <p>Measuring heights (altimeter for aircraft, with barometer) or depth G01C5/00</p> <p>Measuring depth of open water G01C13/008</p> <p>Transducer not specially adapted to a specific variable G01D5/00</p> <p>General determination of the capacity of containers G01F17/00</p> <p>Pressure sensitive fluid level or volume G01F23/14</p>

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			Hollow bodies deformable or displaceable under internal pressure per se G02B1/04 Pressure sensitive switches using Bourdon gauges H01H9/00
G01L9/00	Informative references		Insert a new Informative references section with the following new reference: Vacuum gauges G01L21/00

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	G01L5/16	G01L5/16, G01L5/169, G01L5/171, G01L5/173
C	G01L5/161	G01L5/161, G01L5/1623, G01L5/1627

* 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)

CPC	IPC	Action*
G01L 5/101	G01L 5/101	UPDATE
G01L 5/102	G01L 5/102	UPDATE
G01L 5/103	G01L 5/103	UPDATE
G01L 5/105	G01L 5/105	UPDATE
G01L 5/106	G01L 5/106	UPDATE
G01L 5/107	G01L 5/107	UPDATE
G01L 5/108	G01L 5/108	UPDATE
G01L 5/161	G01L 5/161	UPDATE
G01L 5/162	G01L 5/162	UPDATE
G01L 5/1623	G01L 5/1623	NEW
G01L 5/1627	G01L 5/1627	NEW
G01L 5/163	G01L 5/163	UPDATE
G01L 5/164	G01L 5/164	UPDATE
G01L 5/165	G01L 5/165	UPDATE
G01L 5/166	G01L 5/166	UPDATE
G01L 5/167	G01L 5/167	UPDATE
G01L 5/168	G01L 5/168	UPDATE
G01L 5/169	G01L 5/169	NEW
G01L 5/171	G01L 5/171	NEW
G01L 5/173	G01L 5/173	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.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.