

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1061

DATE: MAY 1, 2021

PROJECT MP0474

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:	G01L	1/08, 1/10, 1/125
		3/00, 3/10, 3/102, 3/22
		5/0066, 5/009, 5/045, 5/246
		7/00
		9/0026, 9/0033, 9/0041, 9/0082, 9/0089, 9/0091, 9/02
		19/04, 19/0645, 19/0672, 19/149
		21/24
		27/002, 27/007
DEFINITIONS:		
Definitions New:	G01L	1/08, 1/10, 1/125, 1/18, 1/22
	G01L	3/102, 3/22, 3/24
	G01L	5/009, 5/045, 5/1623, 5/20, 5/24, 5/246
	G01L	9/0026, 9/0033, 9/0041, 9/0082, 9/0089, 9/0091
	G01L	19/0645, 19/0672, 19/149
	G01L	21/24, 21/30
	G01L	23/32
	G01L	27/002
	G01L	27/007
Definitions Modified:	G01L	SUBCLASS
	G01L	7/00

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 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 1/08	1	by the use of counterbalancing forces	
M	G01L 1/10	1	by measuring variations of frequency of stressed vibrating elements, e.g. of stressed strings (using resistance strain gauges G01L 1/22)	
M	G01L 1/125	2	{by using magnetostrictive means (magnetostrictive sensors H01L 41/125)}	
M	G01L 3/00	0	Measuring torque, work, mechanical power, or mechanical efficiency, in general	
M	G01L 3/10	3	involving electric or magnetic means for indicating	
M	G01L 3/102	5	{involving magnetostrictive means (magnetostrictive sensors H01L 41/125)}	
M	G01L 3/22	2	electrically or magnetically actuated	
M	G01L 5/0066	2	{Calibration arrangements }	
M	G01L 5/009	3	{Force sensors associated with material gripping devices }	
M	G01L 5/045	2	{for measuring the tension across the width of a band-shaped flexible member (measuring flatness G01B)}	
M	G01L 5/246	2	{using acoustic waves }	
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 11/004 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 G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00)	

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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>
M	G01L 9/0026	1	{Transmitting or indicating the displacement of flexible, deformable tubes by electric, electromechanical, magnetic or electromagnetic means (G01L 9/0008 takes precedence)}	
M	G01L 9/0033	1	{Transmitting or indicating the displacement of bellows by electric, electromechanical, magnetic, or electromagnetic means (G01L 9/0008 takes precedence)}	
M	G01L 9/0041	1	{Transmitting or indicating the displacement of flexible diaphragms}	
M	G01L 9/0082	1	{Transmitting or indicating the displacement of capsules by electric, electromechanical, magnetic, or electromechanical means (G01L 9/0008 takes precedence)}	
M	G01L 9/0089	1	{Transmitting or indicating the displacement of pistons by electrical, electromechanical, magnetic or electromagnetic means (G01L 9/0008 takes precedence)}	
M	G01L 9/0091	1	{Transmitting or indicating the displacement of liquid mediums by electrical, electromechanical, magnetic or electromagnetic means (G01L 9/0008 takes precedence)}	
M	G01L 9/02	1	by making use of variations in ohmic resistance, e.g. of potentiometers {, electric circuits therefor, e.g. bridges, amplifiers or signal conditioning}	
M	G01L 19/04	1	Means for compensating for effects of changes of temperature {, i.e. other than electric compensation}	
M	G01L 19/0645	3	{using isolation membranes, specially adapted for protection}	
M	G01L 19/0672	2	{Leakage or rupture protection or detection}	
M	G01L 19/149	2	{of immersion sensor, e.g. where the sensor is immersed in the measuring medium or for <u>in vivo</u> measurements, e.g. by using catheter tips}	
M	G01L 21/24	2	using rotating members; Vacuum gauges of the Langmuir type	
M	G01L 27/002	1	{Calibrating, i.e. establishing true relation between transducer output value and value to be measured, zeroing, linearising or span error determination}	

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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>
M	G01L 27/007	1	{Malfunction diagnosis, i.e. diagnosing a sensor defect}	

*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 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.

2. A. DEFINITIONS (new)

Insert: The following new Definitions.

G01L 1/08

References

Informative references

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

Automatic balancing arrangements for measuring electric variables in which a force or torque representing the measured value is balanced by a force or torque representing the reference value	G01R 17/08
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G01L 1/10

References

Limiting references

This place does not cover:

Using resistance strain gauges	G01L 1/22
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Informative references

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

Using piezo-resistive vibrators	G01L 1/183
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G01L 1/125

References

Limiting references

This place does not cover:

Magnetostrictive sensors	H01L 41/125
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Informative references

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

Magnetostrictive devices in general	H01L 41/12
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G01L 1/18

References

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:

Resistance strain gauges for measuring linear expansion or contraction	G01B
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G01L 1/22

References

Informative references

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

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Resistance strain gauges for measuring linear expansion or contraction	G01B
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G01L 3/102

References

Limiting references

This place does not cover:

Magnetostrictive sensors	H01L 41/125
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Informative references

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

Magnetostrictive devices in general	H01L 41/12
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G01L 3/22

References

Informative references

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

Electrical or magnetic brakes in general	H02K 49/00
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G01L 3/24

References

Informative references

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

Measuring velocity per se	G01P
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G01L 5/009

References

Informative references

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

Manipulators in general	G01L 5/22
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G01L 5/045

References

Limiting references

This place does not cover:

Measuring flatness	G01B
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Informative references

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

Metal rolling in general	B21B
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G01L 5/1623

References

Limiting references

This place does not cover:

Using piezoresistors	G01L 5/162
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Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Pressure sensitive conductor	a conductor wherein the electric resistance changes with deformation caused by pressure, e.g. elastic resin having conductive materials dispersed therein
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G01L 5/20

References

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:

In balancing	G01M
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G01L 5/24

References

Application-oriented references

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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:

Arrangements in wrenches or screwdrivers	B25B 23/14
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G01L 5/246

References

Informative references

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

Using acoustic waves or acoustic emission	G01L 1/255
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G01L 9/0026

References

Limiting references

This place does not cover:

Using vibrations	G01L 9/0008
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Informative references

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

Pressure sensitive flexible, deformable tubes in general	G01L 7/04
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G01L 9/0033

References

Limiting references

This place does not cover:

Using vibrations	G01L 9/0008
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Informative references

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

Pressure sensitive bellows in general	G01L 7/06
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G01L 9/0041

References

Informative references

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

Pressure sensitive flexible diaphragms in general	G01L 7/08
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G01L 9/0082

References

Limiting references

This place does not cover:

Using vibrations	G01L 9/0008
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Informative references

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

Pressure sensitive capsules in general	G01L 7/10
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G01L 9/0089

References

Limiting references

This place does not cover:

Using vibrations	G01L 9/0008
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Informative references

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

Pressure sensitive pistons in general	G01L 7/16
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G01L 9/0091

References

Limiting references

This place does not cover:

Using vibrations	G01L 9/0008
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Informative references

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Pressure sensitive liquid mediums in general	G01L 7/18
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G01L 19/0645

References

Informative references

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

Use of coupling membranes with a coupling fluid in general	G01L 19/0046
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G01L 19/0672

References

Informative references

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

Detection of leakage per se	G01M 3/00
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G01L 19/149

References

Informative references

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

Catheter tips per se	A61M 25/0067
Pressure measurements in the body	A61B 5/00

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G01L 21/24

References

Informative references

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

Langmuir probes for plasma diagnostics	H05H 1/0006
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G01L 21/30

References

Informative references

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

Tubes therefor	H01J 41/02
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G01L 23/32

References

Informative references

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

Apparatus for recording steady or quasi-steady pressure	G01L 19/08
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G01L 27/002

References

Informative references

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

Calibration of sensors per se	G01D 18/00
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G01L 27/007

References

Informative references

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

Malfunction detection of sensor not measuring a specific variable per se	G01D 3/08
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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	Application-oriented references		<u>Delete</u> the following row: Weighing apparatus wherein the balancing is effected by fluid action, with means for measuring the pressure imposed by the load on a liquid G01G5/04
G01L 7/00	Limiting references		<u>Delete</u> the following five rows: Measuring heights (altimeter for aircraft, with barometer) or depth G01C 5/005 Measuring depth of open water G01C 13/008 General determination of the capacity of containers G01F 17/00 Pressure sensitive fluid level or volume measuring devices G01F 23/14 Pressure sensitive switches using Bourdon gauges H01H 9/00
G01L 7/00	Informative references		<u>Insert</u> the following five rows: Measuring heights (altimeter for aircraft, with barometer) or depth G01C 5/005 Measuring depth of open water G01C 13/008 General determination of the capacity of containers G01F 17/00 Pressure sensitive fluid level or volume measuring devices G01F 23/14 Pressure sensitive switches using Bourdon gauges H01H 9/00

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.