

## G12B

### CONSTRUCTIONAL DETAILS OF INSTRUMENTS, OR COMPARABLE DETAILS OF OTHER APPARATUS, NOT OTHERWISE PROVIDED FOR

#### Definition statement

*This place covers:*

Only details which are restricted to mechanical measuring instrument.

#### Relationships with other classification places

Details which already are covered by any other subclass in sections A, F, G or H are classified under those corresponding places and not under [G12B](#).

#### References

##### Limiting references

*This place does not cover:*

Details restricted to the measuring instruments covered by the relevant subclasses of class <a href="#">G01</a> , e.g. <a href="#">G01D</a>	<a href="#">G01D</a>
Constructional details restricted to electric apparatus, e.g. casings, screenings	<a href="#">H02B</a>
Constructional details restricted to electronic apparatus, e.g. casings, screenings	<a href="#">H05K</a>

##### Informative references

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

Insulation or protection of buildings	<a href="#">E04B</a>
Damping of shock or vibrations movement	<a href="#">F16F</a>
Emergency protection of apparatus in general	<a href="#">F16P 7/00</a>
Screening of lighting devices	<a href="#">F21V</a>
Cooling by refrigeration	<a href="#">F25D</a>
Heat-exchange or heat-transfer details	<a href="#">F28F</a>
Calibrating of measuring instrument	<a href="#">G01</a>
Optical filters	<a href="#">G02B 5/20</a>
In connection with acoustic waves	<a href="#">G10K 11/00</a>
In connection with nuclear radiation	<a href="#">G21F</a>
Cooling of electronic apparatus	<a href="#">H05K 7/20</a>
Electromagnetic shielding of electronic apparatus	<a href="#">H05K 9/00</a>

#### Special rules of classification

Attention is drawn to the Notes following the IPC title of section [G](#), especially as regards to the definition of the term "measuring" in Note (2) following the title of class [G01](#).

Groups [G12B 3/00](#), [G12B 13/00](#), [G12B 15/00](#), [G12B 17/00](#) are not used anymore for classifying new documents.

Groups [G12B 1/00](#), [G12B 5/00](#), [G12B 9/00](#) and [G12B 11/00](#) are used only very rarely.

## Glossary of terms

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

Apparatus:	a category of subject matter which is a machine or device, described in terms of its functional capabilities or structural features, that is used to make a product, or to carry out a non-manufacturing process or activity.
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## G12B 1/00

**Sensitive elements capable of producing movement or displacement for purposes not limited to measurement; Associated transmission mechanisms therefor**

### Definition statement

*This place covers:*

Actuating mechanisms of small size, e.g. Micromotion actuators for microdisplacement.

### References

#### Limiting references

*This place does not cover:*

Thermometers using bimetallic elements	<a href="#">G01K 5/62</a>
Thermally-actuating switches	<a href="#">H01H 37/00</a>

#### Informative references

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

Bellows in general	<a href="#">F16J 3/00</a>
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## G12B 3/00

**Details of movements not otherwise provided for (damping of shock or vibrations in general [F16F](#); avoiding out-of-balance forces [F16F 15/00](#); testing balance [G01M](#))**

### References

#### Informative references

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

Damping of shock or vibrations in general	<a href="#">F16F</a>
Avoiding out-of-balance forces	<a href="#">F16F 15/00</a>
Testing balance	<a href="#">G01M</a>

## Special rules of classification

This group deals with obsolete technology and is therefore not used for classifying new documents

## G12B 5/00

Adjusting position or attitude, e.g. level, of instruments or other apparatus, or of parts thereof (levels per se [G01C 9/00](#)); Compensating for the effects of tilting or acceleration, e.g. for optical apparatus

### Definition statement

*This place covers:*

Adjusting mechanisms of small size, e.g. sensor positioning devices.

### References

#### Limiting references

*This place does not cover:*

Level per se	<a href="#">G01C 9/00</a>
Adjusting means of optical elements	<a href="#">G02B 7/00</a>

## G12B 7/00

Compensating for the effects of temperature (by cooling [G12B 15/00](#))

### References

#### Limiting references

*This place does not cover:*

Compensating by cooling	<a href="#">G12B 15/00</a>
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## G12B 9/00

Housing or supporting of instruments or other apparatus

### Definition statement

*This place covers:*

Mechanical details of casings, housings, cabinets etc. for accommodating a mechanical measuring instrument, or supports and devices for carrying or holding such instruments.

### References

#### References out of a residual place

*Examples of places in relation to which this place is residual:*

Housings; Supports specially adapted for an instrument or a set of instruments	<a href="#">G01D 11/24</a> , <a href="#">G01D 11/30</a>
Bases, casings or covers of switching devices	<a href="#">H01H 9/02</a>
Bases or cases of electrical coupling devices	<a href="#">H01R 13/46</a>
Frameworks, boards, panels, desks or casings for the supply or distribution of electric power	<a href="#">H02B 1/00</a>
Casings, cabinets or drawers for electric apparatus	<a href="#">H05K 5/00</a>

**Informative references**

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

Supports adapted for vehicle instrument	<a href="#">B60R 11/00</a>
Supports adapted for aircraft instrument	<a href="#">B64C</a> , <a href="#">B64D</a>
Supports in general	<a href="#">F16M</a>
Containers, seals or encapsulation of semiconductor or other solid-state devices	<a href="#">H10W 76/10</a> , <a href="#">H10W 74/00</a>

**G12B 11/00****Indicating elements; Illumination thereof****Definition statement**

This place covers:

- Illuminating device of instruments in general.
- Indicating elements of instruments.

**References****References out of a residual place**

Examples of places in relation to which this place is residual:

Dashboards	<a href="#">B60K 37/00</a>
Arrangements of lighting devices for dashboards	<a href="#">B60Q 3/10</a>
Structurally-combined illuminating devices for component parts of measuring arrangements not specially adapted for a specific variable	<a href="#">G01D 11/28</a>
Component parts of indicators for measuring arrangements not specially adapted for a specific variable	<a href="#">G01D 13/00</a>
Arrangements of scales, pointers, lamps, or acoustic indicators, e.g. in automobile speedometers	<a href="#">G01P 1/08</a>

**Informative references**

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

Optical elements, systems, or apparatus	<a href="#">G02B</a>
Indicating (displaying) arrangements for variable information	<a href="#">G09F 9/00</a> , <a href="#">G09F 11/00</a>