# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS

(NOTES omitted)

## **INSTRUMENTS**

# G01 MEASURING; TESTING

(NOTES omitted)

# G01K MEASURING TEMPERATURE; MEASURING QUANTITY OF HEAT; THERMALLY-SENSITIVE ELEMENTS NOT OTHERWISE PROVIDED FOR (radiation pyrometry G01J 5/00)

#### NOTES

- 1. In this subclass, the following term is used with the meaning indicated:
  - "thermometer" includes thermally-sensitive elements not provided for in other subclasses.
- 2. Attention is drawn to the Notes following the title of class <u>G01</u>.
- 3. Attention is drawn to the Notes following the titles of class <u>B81</u> and subclass <u>B81B</u> relating to "microstructural devices" and "microstructural systems".

### **WARNING**

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Details of thermometers not specially adapted for particular types of thermometer (circuits for reducing thermal inertia <u>G01K 7/42</u> )	1/22	by means of fluid contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the
1/02	<ul> <li>Means for indicating or recording specially adapted for thermometers</li> <li>for recording</li> </ul>	1/24	<ul><li>fluid</li><li>by means of compounded strips or plates, e.g. by bimetallic strips</li></ul>
1/024	for remote indication	1/26	Compensating for effects of pressure changes
1/024	{arrangements for monitoring a plurality of temperatures, e.g. by multiplexing}	3/00	Thermometers giving results other than momentary value of temperature (G01K 7/42 takes
1/028	<ul> <li>{arrangements for numerical indication}</li> </ul>		precedence)
1/04	Scales	3/005	• {Circuits arrangements for indicating a
1/045	• • • {temperature indication combined with the indication of another variable (indicating of	5, 000	predetermined temperature (fire detection G08B 17/00)}
	human comfort G01W 1/17)}	3/02	<ul> <li>giving means values; giving integrated values</li> </ul>
1/06	Arrangements for facilitating reading, e.g.	3/04	in respect of time
4 10 4 =	illumination, magnifying glass	3/06	in respect of space
1/065	• • • • {of liquid column thermometers}	3/08	• giving differences of values (using thermoelectric
1/08	Protective devices, e.g. casings		elements G01K 7/02); giving differentiated values
1/10	for preventing chemical attack	3/10	in respect of time, e.g. reacting only to a quick
1/105	• • · · {for siderurgical use}		change of temperature
1/12 1/125	<ul><li>for preventing damage due to heat overloading</li><li>{for siderurgical use}</li></ul>	3/12	based upon expansion or contraction of materials
1/14	<ul> <li>Supports; Fastening devices; Arrangements for</li> </ul>	3/14	in respect of space
	mounting thermometers in particular locations	2003/145	• • • {Hotspot localization}
1/143	<ul> <li>for measuring surface temperatures</li> </ul>	<b>7</b> /00	
1/146	<ul> <li>{arrangements for moving thermometers to or from a measuring position}</li> </ul>	5/00	Measuring temperature based on the expansion or contraction of a material (G01K 9/00 takes
1/16	Special arrangements for conducting heat from the		precedence; giving other than momentary value of
1, 10	object to the sensitive element		temperature G01K 3/00)
1/165	• • {for application in zero heat flux sensors}	5/02	<ul> <li>the material being a liquid (contained in a hollow</li> </ul>
1/18	for reducing thermal inertia		body having parts which are deformable or
1/20	Compensating for effects of temperature changes		displaceable under the pressure developed by the
	other than those to be measured, e.g. changes in ambient temperature	5/025	<ul> <li>material G01K 5/32)</li> <li>• {Manufacturing of this particular type of thermometer}</li> </ul>

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5/04	Dataila	5/61	Details of the compounds system
5/04	. Details	5/64	Details of the compounds system
5/06	Arrangements for driving back the liquid	5/66	Selection of composition of the
<i>5</i> /00	column	5/69	components of the system
5/08	Capillary tubes	5/68	Shape of the system
5/10	Containers for the liquid	5/70	specially adapted for indicating or recording
5/12	Selection of liquid compositions	5/72	with electric transmission means for final
5/14	the liquid displacing a further liquid column or a		indication
	solid body (for maximum or minimum indication	7/00	Measuring temperature based on the use of
= 13 -	<u>G01K 5/20</u> )		electric or magnetic elements directly sensitive to
5/16	• with electric contacts		heat (giving results other than momentary value of
5/18	• with electric conversion means for final		temperature G01K 3/00) {; Power supply therefor,
<i>5 /</i> 20	indication		e.g. using thermoelectric elements}
5/20	• with means for indicating a maximum or a	7/003	• {using pyroelectric elements (radiation pyrometers
<i>5 /</i> 22	minimum or both ( <u>G01K 5/22</u> takes precedence)		<u>G01J 5/00</u> )}
5/22	<ul> <li>with provision for expansion indicating over not more than a few degrees</li> </ul>	7/006	• {using superconductive elements}
5/225	• • • { with means for indicating a maximum, e.g. a	7/01	<ul> <li>using semiconducting elements having PN</li> </ul>
3/223	constriction in the capillary tube}		junctions ( <u>G01K 7/02</u> , <u>G01K 7/16</u> , <u>G01K 7/30</u> take
5/24	<ul> <li>with provision for measuring the difference</li> </ul>		precedence)
3/24	between two temperatures	7/015	• • {using microstructures, e.g. made of silicon}
5/26	<ul> <li>with provision for adjusting zero point of scale,</li> </ul>	7/02	• using thermoelectric elements, e.g. thermocouples
3/20	e.g. Beckmann thermometer	7/021	• • {Particular circuit arrangements ( <u>G01K 7/026</u> ,
5/28	• the material being a gas (contained in a hollow body		<u>G01K 7/12</u> , <u>G01K 7/14</u> take precedence)
3/20	having parts which are deformable or displaceable	7/023	• • {provided with specially adapted connectors
	under the pressure developed by the material		(connectors <u>per se H01R</u> )}
	G01K 5/32)	7/025	• • {expendable thermocouples}
5/30	the gas displacing a liquid column	7/026	Arrangements for signalling failure or
5/32	• the material being a fluid contained in a hollow	= 10.00	disconnection of thermocouples
	body having parts which are deformable or	7/028	• • {using microstructures, e.g. made of silicon}
	displaceable (under pressure developed by	7/04	• • the object to be measured not forming one of the
	evaporation <u>G01K 11/04</u> ; pressure measuring	7/06	thermoelectric materials
	devices in general <u>G01L</u> )	7/06	the thermoelectric materials being arranged one
5/323	• • {Selection of fluid compositions}		within the other with the junction at one end exposed to the object, e.g. sheathed type
5/326	• • {using a fluid container connected to the	7/08	• the object to be measured forming one of the
- 12.4	deformable body by means of a capillary tube}	7700	thermoelectric materials, e.g. pointed type
5/34	• the body being a capsule ( <u>G01K 5/36</u> , <u>G01K 5/42</u>	7/10	Arrangements for compensating for auxiliary
F/2C	take precedence)		variables, e.g. length of lead
5/36 5/38	• the body being a tubular spring, e.g. Bourdon tube	7/12	Arrangements with respect to the cold junction,
	• • • of spiral formation		e.g. preventing influence of temperature of
5/40	of helical formation		surrounding air
5/42	• the body being a bellows	7/13	Circuits for cold-junction compensation
5/44	<ul><li>the body being a cylinder and piston</li><li>with electric conversion means for final</li></ul>	7/14	<ul> <li>Arrangements for modifying the output</li> </ul>
5/46	indication		characteristic, e.g. linearising
5/465	using electrical contact making or breaking	7/16	• using resistive elements (resistive elements per se
3/403	devices}		<u>H01C</u> , <u>H01L</u> )
5/48	• the material being a solid	2007/163	• • {provided with specially adapted connectors}
5/483	• • {using materials with a configuration memory,	2007/166	• • {Electrical time domain reflectometry}
2, 103	e.g. Ni-Ti alloys}	7/18	• the element being a linear resistance, e.g.
5/486	• • {using microstructures, e.g. made of silicon		platinum resistance thermometer (G01K 7/26
	(G01K 7/015, G01K 7/028, G01K 7/226,	7/102	takes precedence)
	G01K 17/006 take precedence)}	7/183	• • • (characterised by the use of the resistive
5/50	arranged for free expansion or contraction	7/196	element}
5/52	with electrical conversion means for final	7/186	• • {using microstructures}
	indication	7/20	in a specially-adapted circuit, e.g. bridge circuit
5/54	<ul> <li>consisting of pivotally-connected elements</li> </ul>	7/203	{in an oscillator circuit}
5/56	constrained so that expansion or contraction	7/206 7/21	<ul><li> {in a potentiometer circuit}</li><li> for modifying the output characteristic, e.g.</li></ul>
	causes a deformation of the solid	1/21	linearising
5/58	the solid body being constrained at more	7/22	• • the element being a non-linear resistance, e.g.
	than one point, e.g. rod, plate, diaphragm	1,22	thermistor (G01K 7/26 takes precedence)
# / * O	(G01K 5/62 takes precedence)	7/223	• • • {characterised by the shape of the resistive
5/60	the body being a flexible wire or ribbon	., ===	element}
5/62	the solid body being formed of compounded		•
	strips or plates, e.g. bimetallic strip		

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7/226	• • {using microstructures, e.g. silicon spreading	11/26	of resonant frequencies
	resistance}	11/265	• • • {using surface acoustic wave [SAW]}
7/24	• • • in a specially-adapted circuit, e.g. bridge circuit	11/28	<ul> <li>using measurements of density {(measuring density</li> </ul>
7/245	• • • {in an oscillator circuit}		in general <u>G01N 9/00</u> )}
7/25	• • • for modifying the output characteristic, e.g. linearising	11/30	• using measurement of the effect of a material on X-radiation, gamma radiation or particle radiation
7/26	the element being an electrolyte	11/32	• using changes in transmittance, scattering or
7/28	in a specially-adapted circuit, e.g. bridge circuit		luminescence in optical fibres
7/30	<ul> <li>using thermal noise of resistances or conductors</li> </ul>	11/3206	at discrete locations in the fibre, e.g. using Bragg
7/32	using change of resonant frequency of a crystal		scattering
7/34	<ul> <li>using capacitative elements (capacitors <u>per se</u> H01G)</li> </ul>	11/3213	• • using changes in luminescence, e.g. at the distal end of the fibres
7/343	• • {the dielectric constant of which is temperature	11/322	using Brillouin scattering
	dependant}	11/324	using Raman scattering
7/346	• • {for measuring temperature based on the time delay of a signal through a series of logical ports}	13/00	Thermometers specially adapted for specific
7/36	<ul> <li>using magnetic elements, e.g. magnets, coils</li> </ul>	12/006	purposes
	(magnetic elements per se H01F)	13/006	• {for cryogenic purposes}
7/38	the variations of temperature influencing the	13/008	• { using microstructures, e.g. made of silicon }
	magnetic permeability	13/02	• for measuring temperature of moving fluids or
7/40	<ul> <li>using ionisation of gases</li> </ul>	12/022	granular materials capable of flow
7/42	<ul> <li>Circuits effecting compensation of thermal inertia;</li> </ul>	13/022	• • {Suction thermometers}
	Circuits for predicting the stationary value of a	13/024	• of moving gases
	temperature	13/026	• • {of moving liquids}
2007/422	• • {Dummy objects used for estimating temperature	13/028	• • {for use in total air temperature [TAT] probes}
	of real objects}	13/04	• for measuring temperature of moving solid bodies
7/425	• • {Thermal management of integrated systems}	13/06	• • in linear movement
7/427	• • {Temperature calculation based on spatial	13/08	. in rotary movement
	modeling, e.g. spatial inter- or extrapolation}	13/10	• for measuring temperature within piled or stacked
9/00	Measuring temperature based on movements		materials (by special arrangements for conducting heat from the object to the sensitive heat element
2,00	caused by redistribution of weight, e.g. tilting		
			(TULK 1/10)
		13/12	G01K 1/16) combined with sampling devices for measuring
	thermometer (not giving momentary value of temperature G01K 3/00)	13/12	combined with sampling devices for measuring temperatures of samples of materials
11/00	thermometer (not giving momentary value of temperature <u>G01K 3/00</u> )	13/12 13/125	. combined with sampling devices for measuring
11/00	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical		<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> </ul>
11/00	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups	13/125	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>. {for siderurgical purposes}</li> </ul>
<b>11/00</b> 11/003	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00	13/125	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans</li> </ul>
	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups	13/125 13/20	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves</li> </ul>
	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g.	13/125 13/20 13/223 13/25	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> </ul>
11/003	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}	13/125 13/20 13/223	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves</li> </ul>
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11/003	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take)	13/125 13/20 13/223 13/25 13/252 <b>15/00</b>	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> </ul> Testing or calibrating of thermometers
11/003	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on	13/125 13/20 13/223 13/25 13/252	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature</li> </ul>
11/003 11/006	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}	13/125 13/20 13/223 13/25 13/252 <b>15/00</b>	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect</li> </ul>
11/003	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing	13/125 13/20 13/223 13/25 13/252 <b>15/00</b>	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements</li> </ul>
11/003 11/006	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling	13/125 13/20 13/223 13/25 13/252 <b>15/00</b>	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> </ul>
11/003 11/006	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having	13/125 13/20 13/223 13/25 13/252 <b>15/00</b> 15/002	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements</li> </ul>
11/003 11/006	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under	13/125 13/20 13/223 13/25 13/252 <b>15/00</b> 15/002	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> </ul>
11/003 11/006 11/02 11/04	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour	13/125 13/20 13/223 13/25 13/252 <b>15/00</b> 15/002	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> <li>Measuring quantity of heat (measuring temperature)</li> </ul>
11/003 11/006 11/02 11/04 11/06	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening	13/125 13/20 13/223 13/25 13/252 <b>15/00</b> 15/002	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> <li>Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially</li> </ul>
11/003 11/006 11/02 11/04 11/06 11/08	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone	13/125 13/20 13/223 13/25 13/252 <b>15/00</b> 15/002	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> <li>Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials,</li> </ul>
11/003 11/006 11/02 11/04 11/06 11/08 11/10	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using sintering	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/005 15/007 17/00	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> </ul> Testing or calibrating of thermometers <ul> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> </ul> Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N)
11/003 11/006 11/02 11/04 11/06 11/08 11/10 11/12	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using sintering  • using changes in colour, translucency or reflectance	13/125 13/20 13/223 13/25 13/252 <b>15/00</b> 15/002	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> </ul> Testing or calibrating of thermometers <ul> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> </ul> Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N) <ul> <li>{for measuring the power of light beams, e.g. laser</li> </ul>
11/003 11/006 11/02 11/04 11/06 11/08 11/10 11/12 11/125	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using sintering  • using changes in colour, translucency or reflectance  • using changes in reflectance	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/007 17/00	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> </ul> Testing or calibrating of thermometers <ul> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> </ul> Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N) <ul> <li>{for measuring the power of light beams, e.g. laser beams}</li> </ul>
11/003 11/006 11/02 11/04 11/06 11/08 11/10 11/12 11/125 11/14	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using sintering  • using changes in colour, translucency or reflectance  • using changes in reflectance	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/005 15/007 17/00	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> </ul> Testing or calibrating of thermometers <ul> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> </ul> Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N) <ul> <li>{for measuring the power of light beams, e.g. laser beams}</li> <li>{Microcalorimeters, e.g. using silicon</li> </ul>
11/003 11/006 11/02 11/04 11/06 11/08 11/10 11/12 11/125 11/14 11/16	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using sintering  • using changes in colour, translucency or reflectance  • using changes in reflectance  • of inorganic materials	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/007 17/00 17/003	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>. {for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>. {Infrared clinical thermometers, e.g. tympanic}</li> <li>. Protective devices therefor, e.g. sleeves preventing contamination</li> <li> {for tympanic thermometers}</li> </ul> Testing or calibrating of thermometers <ul> <li>. {Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>. {Calibration}</li> <li>. {Testing}</li> </ul> Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N) <ul> <li>. {for measuring the power of light beams, e.g. laser beams}</li> <li>. {Microcalorimeters, e.g. using silicon microstructures}</li> </ul>
11/003 11/006 11/02 11/04 11/08 11/10 11/12 11/125 11/14 11/16 11/165	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using sintering  • using changes in colour, translucency or reflectance  • of inorganic materials  • of organic materials	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/007 17/00	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> <li>Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N)</li> <li>{for measuring the power of light beams, e.g. laser beams}</li> <li>{Microcalorimeters, e.g. using silicon microstructures}</li> <li>Calorimeters using transport of an indicating</li> </ul>
11/003 11/006 11/02 11/04 11/04 11/08 11/10 11/12 11/125 11/14 11/16 11/165 11/18	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using changes in colour, translucency or reflectance  • using changes in reflectance  • of inorganic materials  • of organic materials  • of organic liquid crystals  • of materials which change translucency	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/007 17/00 17/003 17/006 17/02	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> <li>Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N)</li> <li>{for measuring the power of light beams, e.g. laser beams}</li> <li>{Microcalorimeters, e.g. using silicon microstructures}</li> <li>Calorimeters using transport of an indicating substances, e.g. evaporation calorimeters</li> </ul>
11/003 11/006 11/02 11/04 11/08 11/10 11/12 11/125 11/14 11/16 11/165	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using changes in colour, translucency or reflectance  • of inorganic materials  • of organic materials  • of organic materials  • of organic materials  • of materials which change translucency  • using thermoluminescent materials (G01K 11/32)	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/007 17/00 17/003	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> <li>Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N)</li> <li>{for measuring the power of light beams, e.g. laser beams}</li> <li>{Microcalorimeters, e.g. using silicon microstructures}</li> <li>Calorimeters using transport of an indicating</li> </ul>
11/003 11/006 11/02 11/04 11/06 11/08 11/10 11/12 11/125 11/14 11/16 11/165 11/18 11/20	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using changes in colour, translucency or reflectance  • using changes in reflectance  • of inorganic materials  • of organic materials  • of organic liquid crystals  • of materials which change translucency  • using thermoluminescent materials (G01K 11/32 takes precedence)	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/007 17/00 17/003 17/006 17/02	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>{for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>{Infrared clinical thermometers, e.g. tympanic}</li> <li>Protective devices therefor, e.g. sleeves preventing contamination</li> <li>{for tympanic thermometers}</li> </ul> Testing or calibrating of thermometers <ul> <li>{Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>{Calibration}</li> <li>{Testing}</li> </ul> Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N) <ul> <li>{for measuring the power of light beams, e.g. laser beams}</li> <li>{Microcalorimeters, e.g. using silicon microstructures}</li> <li>Calorimeters using transport of an indicating substances, e.g. evaporation calorimeters</li> <li>{where evaporation, sublimation or condensation}</li> </ul>
11/003 11/006 11/02 11/04 11/04 11/08 11/10 11/12 11/125 11/14 11/16 11/165 11/18	thermometer (not giving momentary value of temperature G01K 3/00)  Measuring temperature based upon physical or chemical changes not covered by groups G01K 3/00, G01K 5/00, G01K 7/00 or G01K 9/00  • {using absorption or generation of gas, e.g. hydrogen}  • {using measurement of the effect of a material on microwaves or longer electromagnetic waves, e.g. measuring temperature via microwaves emitted by the object (G01K 17/003, G01J 5/00 take precedence; measuring the effect of a material on X-, gamma- or particle radiation G01K 11/30)}  • using evaporation or sublimation, e.g. by observing boiling  • from material contained in a hollow body having parts which are deformable or displaceable under the pressure developed by the vapour  • using melting, freezing, or softening  • of disposable test bodies, e.g. cone  • using changes in colour, translucency or reflectance  • of inorganic materials  • of organic materials  • of organic materials  • of organic materials  • of materials which change translucency  • using thermoluminescent materials (G01K 11/32)	13/125 13/20 13/223 13/25 13/252 15/00 15/002 15/007 17/00 17/003 17/006 17/02	<ul> <li>combined with sampling devices for measuring temperatures of samples of materials</li> <li>. {for siderurgical purposes}</li> <li>Clinical contact thermometers for use with humans or animals</li> <li>. {Infrared clinical thermometers, e.g. tympanic}</li> <li>. Protective devices therefor, e.g. sleeves preventing contamination</li> <li> {for tympanic thermometers}</li> <li>Testing or calibrating of thermometers</li> <li>. {Calibrated temperature sources, temperature standards therefor (arrangements with respect to the cold junction of thermo-electric elements G01K 7/12)}</li> <li>. {Calibration}</li> <li>. {Testing}</li> <li>Measuring quantity of heat (measuring temperature by calorimetry G01K 3/00 - G01K 11/00; specially adapted for measuring thermal properties of materials, e.g. specific heat, heat of combustion G01N)</li> <li>. {for measuring the power of light beams, e.g. laser beams}</li> <li>. {Microcalorimeters, e.g. using silicon microstructures}</li> <li>. Calorimeters using transport of an indicating substances, e.g. evaporation calorimeters</li> <li>. {where evaporation, sublimation or condensation</li> </ul>

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17/04	<ul> <li>Calorimeters using compensation methods {, i.e. where the absorbed or released quantity of heat to be measured is compensated by a measured quantity of heating or cooling}</li> </ul>
17/06	<ul> <li>Measuring quantity of heat conveyed by flowing media, e.g. in heating systems (G01K 17/02, G01K 17/04 take precedence) {e.g. the quantity of heat in a transporting medium, delivered to or consumed in an expenditure device}</li> </ul>
17/08	<ul> <li>based upon measurement of temperature difference {or of a temperature}</li> </ul>
17/10	• • • between an inlet and an outlet point, combined with measurement of rate of flow of the medium {if such, by integration during a certain time-interval}
17/12	Indicating product of flow and temperature difference directly {or temperature}
17/14	using mechanical means for both measurements
17/16	using electrical {or magnetic} means for both measurements
17/18	using electrical {or magnetic} means for one measurement and mechanical means for the other
17/185	{where the indicating-instrument is driven electrically or magnetically by the temperature-measurement device and mechanically by the flow-measurement device}
17/20	<ul> <li>across a radiating surface, combined with ascertainment of the heat transmission coefficient {(materials therefor G01K 17/08)}</li> </ul>
19/00	Testing or calibrating calorimeters
19/00 2201/00	Application of thermometers in air-conditioning
2201/00	Application of thermometers in air-conditioning systems
<b>2201/00</b> 2201/02	Application of thermometers in air-conditioning systems . in vehicles
2201/00	Application of thermometers in air-conditioning systems
<b>2201/00</b> 2201/02	Application of thermometers in air-conditioning systems . in vehicles
2201/00 2201/02 2203/00	Application of thermometers in air-conditioning systems . in vehicles Application of thermometers in cryogenics Application of thermometers in motors, e.g. of a
2201/00 2201/02 2203/00 2205/00	Application of thermometers in air-conditioning systems . in vehicles Application of thermometers in cryogenics Application of thermometers in motors, e.g. of a vehicle
2201/00 2201/02 2203/00 2205/00 2205/02	Application of thermometers in air-conditioning systems . in vehicles Application of thermometers in cryogenics Application of thermometers in motors, e.g. of a vehicle . for measuring inlet gas temperature
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04	Application of thermometers in air-conditioning systems  in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle  for measuring inlet gas temperature  for measuring exhaust gas temperature  Application of thermometers in household appliances
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00	Application of thermometers in air-conditioning systems . in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle . for measuring inlet gas temperature . for measuring exhaust gas temperature  Application of thermometers in household
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00	Application of thermometers in air-conditioning systems . in vehicles Application of thermometers in cryogenics Application of thermometers in motors, e.g. of a vehicle . for measuring inlet gas temperature . for measuring exhaust gas temperature Application of thermometers in household appliances . for measuring food temperature
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00 2207/02 2207/04	Application of thermometers in air-conditioning systems  in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle  for measuring inlet gas temperature  for measuring exhaust gas temperature  Application of thermometers in household appliances  for measuring food temperature  for conservation purposes
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00 2207/04 2207/06	Application of thermometers in air-conditioning systems  in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle  for measuring inlet gas temperature  for measuring exhaust gas temperature  Application of thermometers in household appliances  for measuring food temperature  for conservation purposes  for preparation purposes  with food recipients having temperature sensing
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00 2207/02 2207/04 2207/06 2207/08	Application of thermometers in air-conditioning systems  in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle  for measuring inlet gas temperature  for measuring exhaust gas temperature  Application of thermometers in household appliances  for measuring food temperature  for conservation purposes  for preparation purposes  with food recipients having temperature sensing capability
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00 2207/02 2207/04 2207/06 2207/08 2211/00	Application of thermometers in air-conditioning systems  in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle  for measuring inlet gas temperature  for measuring exhaust gas temperature  Application of thermometers in household appliances  for measuring food temperature  for conservation purposes  for preparation purposes  with food recipients having temperature sensing capability  Thermometers based on nanotechnology
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00 2207/02 2207/04 2207/06 2207/08 2211/00 2213/00	Application of thermometers in air-conditioning systems . in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle . for measuring inlet gas temperature . for measuring exhaust gas temperature  Application of thermometers in household appliances . for measuring food temperature . for conservation purposes . for preparation purposes . with food recipients having temperature sensing capability  Thermometers based on nanotechnology  Temperature mapping  Details concerning sensor power supply  Temperature measurement using electric or
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00 2207/04 2207/06 2207/08 2211/00 2213/00 2215/00	Application of thermometers in air-conditioning systems  in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle  for measuring inlet gas temperature  for measuring exhaust gas temperature  Application of thermometers in household appliances  for measuring food temperature  for conservation purposes  for preparation purposes  with food recipients having temperature sensing capability  Thermometers based on nanotechnology  Temperature mapping  Details concerning sensor power supply
2201/00 2201/02 2203/00 2205/00 2205/02 2205/04 2207/00 2207/04 2207/06 2207/08 2211/00 2213/00 2215/00	Application of thermometers in air-conditioning systems . in vehicles  Application of thermometers in cryogenics  Application of thermometers in motors, e.g. of a vehicle . for measuring inlet gas temperature . for measuring exhaust gas temperature  Application of thermometers in household appliances . for measuring food temperature . for conservation purposes . for preparation purposes . with food recipients having temperature sensing capability  Thermometers based on nanotechnology  Temperature mapping  Details concerning sensor power supply  Temperature measurement using electric or magnetic components already present in the

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