### **CPC COOPERATIVE PATENT CLASSIFICATION**

#### G PHYSICS

(NOTES omitted)

## **INSTRUMENTS**

G01 **MEASURING; TESTING** (NOTES omitted)

### **G01B MEASURING LENGTH, THICKNESS OR SIMILAR LINEAR DIMENSIONS; MEASURING ANGLES; MEASURING AREAS; MEASURING IRREGULARITIES OF** SURFACES OR CONTOURS

## NOTES

- 1. This subclass covers measuring of position or displacement in terms of linear or angular dimensions.
- 2. In this subclass, the groups are distinguished by the measurement technique which is of major importance. Thus, the mere application of other techniques or means for giving a final indication does not affect the classification.
- 3. Attention is drawn to the Notes following the title of class G01.
- 4. Machines operated on similar principles to the hand-held devices specified in this subclass are classified with these devices.
- 5. Measuring arrangements or details thereof covered by two or more of groups G01B 3/00 G01B 17/00 are classified in group <u>G01B 21/00</u> if no single other group can be selected as being predominantly applicable.

### 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	Measuring instruments characterised by the	2003/1017	
	selection of material therefor	3/102	
3/00	Measuring instruments characterised by the use of	2003/1023	
5/00	mechanical techniques	2003/1025	
	-	2003/1028	
	NOTE	2003/103	
	When classifying in this group, mechanical	2003/1033	
	arrangements for measuring specific parameters		
	can be further classified in group G01B 5/00.	2003/1035	• • •
3/002	• {Details}	2003/1038	• • •
3/002	• {Scales; Graduations}	3/1041	cł
3/004	<ul> <li>(beaus), oradiations;</li> <li>(having both coarse and fine graduation)</li> </ul>	3/1043	•••
3/008	• {Arrangements for controlling the measuring		
5/000	force}	3/1046	
3/02	• Rulers with scales or marks for direct reading	3/1048	
	(measuring tapes G01B 3/10)	2003/1051	
3/04	rigid	2003/1031	•••
3/06	folding	2003/1053	
3/08	• • • extensible	3/1056	••••
3/10	• Measuring tapes	2003/1058	{1
3/1003	• • characterised by structure or material;	3/1061	M
	characterised by layout or indicia		le
3/1004	• • • {Measuring tapes without casings}	2003/1064	
3/1005	Means for controlling winding or unwinding of	2003/1066	
	tapes	3/1069	
3/1007	Means for locking	3/1071	Se
2003/101	{acting on the drum}		m
2003/1012	• • • {engaging the tape in a direction parallel to	2003/1074	
2002/1017	the tape itself}	2003/1076	
2003/1015	• • • {engaging the tape in a direction transversal	2003/1079	
	to the tape itself}		

2003/1017	• • • { acting on the whole coil }
3/102	Means for damping
2003/1023	• • • {Winding mechanisms}
2003/1025	• • • {operated manually, e.g. crank-handles}
2003/1028	• • • { operated by electric motors }
2003/103	• • • {operated by springs}
2003/1033	• • • {Means for activating the locking, braking or
	releasing of the tape, e.g. buttons}
2003/1035	• • • {by pivotal operation}
2003/1038	• • • {by translatory motion operation}
3/1041	characterised by casings
3/1043	Details of internal structure thereof, e.g. means
	for coupling separately moulded casing halves
3/1046	• • • Details of external structure thereof, e.g. shapes
	for ensuring firmer hold
3/1048	• • • Integrated means for affixing or holding
2003/1051	• • • {specially adapted for two or more tapes within
	the same casing}
2003/1053	• • • {Tape exit slots, e.g. shape or exit direction}
3/1056	• Tape end arrangements, e.g. end-hooks
2003/1058	• • {Manufacturing or assembling methods}
3/1061	• • Means for displaying or assisting reading of
	length measurement
2003/1064	• • {Windows, e.g. lenses, glasses or cross-hairs}
2003/1066	• • • {Index sliding on tape}
3/1069	Electronic or mechanical display arrangements
3/1071	• Separate means for supporting or affixing
2002/1074	measuring tapes
2003/1074	• • • {associated with the casings}
2003/1076	• • • {associated with the end-hooks}
2003/1079	• • • {associated with the tapes}

3/1084	<ul> <li>Tapes combined with arrangements for functions other than measuring lengths</li> </ul>	5/00	Measuring arran of mechanical tee
2003/1087	7 {for illuminating}		<b>NOTE</b>
3/1089	• • • • for marking, drawing or cutting		
3/1092	<ul> <li>for performing length measurements and at least one other measurement of a different nature, e.g. bubble-type level</li> </ul>		When classifyi mechanical me classified in gr
3/1094	<ul> <li>for recording information or for performing calculations</li> </ul>	5/0002	• {Arrangements measuring instr
2003/1097	7 {Tape measures with an adhesive surface}	5/0004	• • {Supports (G
3/11	Chains for measuring length	5/0007	• • {Surface plat
3/12	• Measuring wheels	5/0009	• • {Guiding sur
3/14	<ul> <li>Templates for checking contours {(templates for mounting doors or windows E04F 21/0007)}</li> </ul>	5/0011	for non-linea • {Arrangements
3/16	• Compasses, i.e. with a pair of pivoted arms		measuring error
3/163	• • {without measuring scale}	5/0014	• • {due to temp
3/166	• • {provided with a measuring scale}		<u>B23Q 11/000</u>
3/18	• Micrometers	5/0016	• • {due to weight
3/20	• Slide gauges	5/0018	• {for measuring
3/205	• • {provided with a counter for digital indication of the measured dimension}	5/0021	<ul> <li>{for measuring object}</li> </ul>
3/22	• Feeler-pin gauges, e.g. dial gauges (for measuring contours or curvatures <u>G01B 5/20</u> )	5/0023	• {Measuring of accessories, gol
3/24	• • with open yoke, i.e. calipers	5/0025	• {Measuring of
3/26	• • Plug gauges		precedence)}
3/28	• • Depth gauges	5/0028	• • {Brakes, bral
3/30	• Bars, blocks, or strips in which the distance	5/003	• {Measuring of
	between a pair of faces is fixed, although it may be	5/0032	• • {Valves, actu
2/202	preadjustable, e.g. end measure, feeler strip	5/0035	• {Measuring of
3/303	<ul> <li>{pre-adjustable, e.g. by means of micrometerscrew}</li> </ul>	5/0037	• {Measuring of
3/306	• • { with inclined slide plane }	5/004	• for measuring c
3/300	{with included side plane}     Holders therefor	5/008	• • using coordin
3/32	<ul> <li>Ring or other apertured gauges, e.g. "go/no-go"</li> </ul>	5/012	Contact-m
5/54	gauge	5/016	Construc
3/36	• for external screw-threads	5/02	• for measuring l
3/38	• Gauges with an open yoke and opposed faces, i.e.	5/025	( <u>G01B 5/004</u> , <u>C</u>
5/50	calipers, in which the internal distance between the faces is fixed, although it may be preadjustable	5/025	• {Measuring of ring-shape precedence}
3/40	. for external screw-threads	5/04	• • specially ada
3/42	• of limit-gauge type, i.e. "go/no-go" (G01B 3/40 takes precedence)	5/043	of objects wh
3/44	preadjustable for wear or tolerance	5/046	• • • {for measurements
3/46	• Plug gauges for internal dimensions with engaging	5/06	. for measuring
	surfaces which are at a fixed distance, although they	5/061	• • • {height ga
	may be preadjustable	5/063	· · · · {provide
3/48	• for internal screw-threads	0,000	along a
3/50	• of limit-gauge type, i.e. "go/no-go" ( <u>G01B 3/48</u> takes precedence)	5/065	microme
3/52	preadjustable for wear or tolerance		fixed alo
3/56	• Gauges for measuring angles or tapers, e.g. conical calipers	5/066	calibrate
3/563	• • {Protractors (for use in geodesy <u>G01C 1/00;</u> protractor heads for drawing machines	5/068	• • {of objects precedence
	<u>B43L 13/08</u> )}	5/08	• for measuring d
3/566	• • {Squares}		precedence; me <u>G01B 5/213</u> )}
		5/10	• • of objects wh
		E (10	• . • • •

# Measuring arrangements characterised by the use of mechanical techniques

ing in this group, specific easuring instruments can be further roup <u>G01B 3/00</u>. for supporting, fixing or guiding the rument or the object to be measured} 01B 5/025 takes precedence)} tes} faces; Arrangements compensating rity there-of} for eliminating or compensation of rs due to temperature or weight} erature (on machine tools <u>)</u>} ht (on machine tools <u>B23Q 11/001</u>)} key-ways} the volumetric dimension of an sport goods, e.g. bowling fclubs, game balls} vehicle parts (G01B 5/003 takes keshoes, clutches} motor parts} ating devices for valves} dimensions of trees} dimensions of welds} coordinates of points nate measuring machines aking feeler heads therefor ctional details of contacts ength, width or thickness G01B 5/08 take precedence) of circumference; Measuring length ed articles (G01B 5/0035 takes pted for measuring length or width nile moving uring length } uring width} g thickness uges} ed with a slide which may be moved vertical support by means of a eter screw} ed with a slide which may be ong its vertical support in discrete ed position} g } while moving (G01B 5/066 takes e)} liameters {(G01B 5/0035 takes easuring radius of curvature nile moving . . internal diameters 5/125/14 . for measuring distance or clearance between spaced objects or spaced apertures (G01B 5/24 takes precedence) 5/143 . . {between holes on a workpiece}

5/146	• • {measuring play on bearings}
5/16	between a succession of regularly spaced objects
	or regularly spaced apertures
5/163	• • {of screw-threads}
5/166	• • {of gear teeth}
5/18	for measuring depth
5/20	. for measuring contours or curvatures
5/201	• • {for measuring roundness}
5/202	• • {of gears}
5/204	• {of screw-threads}
5/205	• {of turbine blades or propellers}
5/207	• using a plurality of fixed, simultaneously
	operating transducers (G01B 5/213 - G01B 5/22
	take precedence)
5/213	• for measuring radius of curvature
5/22	Spherometers
5/24	• for measuring angles or tapers; for testing the
	alignment of axes
5/241	• • {for measuring conicity}
5/242	• • {Sine bars; Sine plates}
5/243	• { for measuring chamfer (see <u>G01B 3/56</u> ) }
5/245	• • for testing perpendicularity
5/25	• • for testing the alignment of axes
5/252	• • • for measuring eccentricity, i.e. lateral shift
	between two parallel axes
5/255	• for testing wheel alignment
5/26	• for measuring areas, e.g. planimeters
5/28	. for measuring roughness or irregularity of surfaces
5/285	• • {for controlling eveness}
5/30	• for measuring the deformation in a solid, e.g.
	mechanical strain gauge
7/00	mechanical strain gauge Measuring arrangements characterised by the use
	Measuring arrangements characterised by the use of electric or magnetic techniques
<b>7/00</b> 7/001	Measuring arrangements characterised by the use
	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> </ul>
7/001	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges</li> </ul>
7/001	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> </ul>
7/001	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes</li> </ul>
7/001 7/002	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> </ul>
7/001 7/002	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate</li> </ul>
7/001 7/002 7/003	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> </ul>
7/001 7/002 7/003 7/004	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> </ul>
7/001 7/002 7/003 7/004 7/008	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring length, width or thickness</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring listance between sensor and object (G01B 7/082 and G01B 7/102 take</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Constructional details of contacts</li> <li>for measuring lealer heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring length of cable, band or the</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinate measuring G01B 7/004)}</li> <li>for measuring coordinate of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023 7/023	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving G01B 7/04)}</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving G01B 7/04)}</li> <li>specially adapted for measuring length or width</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023 7/023 7/026	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Contact-making feeler heads therefor</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving G01B 7/04)}</li> <li>specially adapted for measuring length or width of objects while moving</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023 7/023 7/026 7/04	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving G01B 7/04)}</li> <li>specially adapted for measuring length or width of objects while moving</li> <li>{for measuring length}</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023 7/023 7/026 7/026 7/04	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving G01B 7/04)</li> <li>specially adapted for measuring length or width of objects while moving</li> <li>{for measuring length}</li> <li>{for measuring length}</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023 7/023 7/026 7/026 7/04 7/042 7/042 7/042	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving G01B 7/04)}</li> <li>specially adapted for measuring length or width of objects while moving</li> <li>{for measuring length}</li> </ul>
7/001 7/002 7/003 7/004 7/008 7/012 7/016 7/02 7/023 7/023 7/026 7/026 7/04	<ul> <li>Measuring arrangements characterised by the use of electric or magnetic techniques</li> <li>{Constructional details of gauge heads (G01B 7/012 takes precedence)}</li> <li>{Constructional details of contacts for gauges actuating one or more contacts (G01B 7/016 takes precedence)}</li> <li>{for measuring position, not involving coordinate determination (coordinate measuring G01B 7/004)}</li> <li>for measuring coordinates of points</li> <li>using coordinate measuring machines</li> <li>Contact-making feeler heads therefor</li> <li>Constructional details of contacts</li> <li>for measuring length, width or thickness (G01B 7/004, G01B 7/12 take precedence)</li> <li>{for measuring distance between sensor and object (G01B 7/082 and G01B 7/102 take precedence)}</li> <li>{for measuring length of cable, band or the like, which has been paid out, e.g. from a reel (measuring length of objects while moving G01B 7/04)</li> <li>specially adapted for measuring length or width of objects while moving</li> <li>{for measuring length}</li> <li>{for measuring length}</li> </ul>

7/063	•	•	•	{using piezoelectric resonator	s
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7/066	{for measuring thickness of coating
	(apparatus or processes for the manufacture
	of piezoelectric or electrostrictive resonators
	for obtaining desired frequency <u>H03H 3/04</u> )}
7/08	• • • {using capacitive means}
7/082	• • • • {Height gauges}
7/085	• • • • {for measuring thickness of coating}
7/087	• • • • { for measuring of objects while moving
	(G01B 7/085 takes precedence)}
7/10	• • • {using magnetic means, e.g. by measuring
	change of reluctance}
7/102	• • • • {Height gauges}
7/105	• • • • { for measuring thickness of coating }
7/107	• • • • { for measuring objects while moving
	( <u>G01B 7/105</u> takes precedence)}
7/12	<ul> <li>for measuring diameters</li> </ul>
7/125	• • {of objects while moving}
7/13	Internal diameters
7/14	. for measuring distance or clearance between spaced
	objects or spaced apertures (G01B 7/30 takes
	precedence)
7/142	• • {between holes on a workpiece}
7/144	• • {Measuring play on bearings}
7/146	• • {Measuring on gear teeth}
7/148	• • {Measuring on screw threads}
7/15	• • being regularly spaced
7/16	• for measuring the deformation in a solid, e.g. by
	resistance strain gauge
7/18	• • {using change in resistance}
7/20	• • { formed by printed-circuit technique }
7/22	• • {using change in capacitance}
7/24	• • using change in magnetic properties
7/26	• for measuring depth
7/28	• for measuring contours or curvatures
7/281	• • {for measuring contour or curvature along an
	axis, e.g. axial curvature of a pipeline or along a
	series of feeder rollers}
7/282	• • {for measuring roundness}
7/283	• • {of gears}
7/284	• {of screw-threads}
7/285	• {of propellers or turbine blades}
7/286	• {Spherometers}
7/287	• using a plurality of fixed, simultaneously
	operating transducers (G01B 7/293 takes
	precedence)
7/293	• for measuring radius of curvature
7/30	• for measuring angles or tapers; for testing the
	alignment of axes
7/305	• for testing perpendicularity
7/31	<ul> <li>for testing perpendicularity</li> <li>for testing the alignment of axes</li> </ul>
7/312	• • for measuring eccentricity, i.e. lateral shift
	between two parallel axes
7/315	• • for testing wheel alignment
7/32	<ul> <li>for measuring areas</li> </ul>
7/34	<ul> <li>for measuring roughness or irregularity of surfaces</li> </ul>
7/345	<ul> <li>for measuring roughness of megularity of surfaces</li> <li>. {for measuring evenness}</li> </ul>
11575	• (101 measuring eveniness)

9/00	Measuring instruments characterised by the use of optical techniques				
	NOTE				
	When classifying in this group, optical arrangements for measuring specific parameters can be further classified in group G01B 11/00.				
9/02	. Interferometers				
9/02001	<ul> <li>characterised by controlling or generating intrinsic radiation properties</li> </ul>				
9/02002	• • using two or more frequencies				
9/02003	• • • using beat frequencies				
9/02004	8 1 9				
9/02005	• • • {using discrete frequency stepping or switching}				
9/02007	<ul> <li>. {Two or more frequencies or sources used for interferometric measurement (using only beat <u>G01B 9/02003</u>)}</li> </ul>				
9/02008	• • • {by using a frequency comb}				
9/02009	using different or varying spectral width}				
9/0201	• • • {using temporal phase variation}				
9/02011					
9/02012					
9/02014 9/02015	(1) 81				
9/02015	<ul> <li>characterised by the beam path configuration</li> <li>{contacting two or more objects}</li> </ul>				
9/02010	<ul> <li> (contacting two of more objects)</li> <li> with multiple interactions between the target</li> </ul>				
702017	object and light beams, e.g. beam reflections occurring from different locations				
9/02018	Multipass interferometers, e.g. double-pass				
9/02019	• • • {contacting different points on same face of object}				
9/02021	• • • {contacting different faces of object, e.g. opposite faces}				
9/02022	· · · · · · · · · · · · · · · · · · ·				
9/02023	on cavity or fibre}				
9/02024	• • • {Measuring in transmission, i.e. light traverses the object}				
9/02025	• • {Interference between three or more discrete surfaces}				
9/02027	• • {Two or more interferometric channels or interferometers}				
9/02028	• • • • {Two or more reference or object arms in one interferometer}				
9/02029	• • {Combination with non-interferometric systems, i.e. for measuring the object}				
9/0203	• • • • {With imaging systems}				
9/02031	• • • {With non-optical systems, e.g. tactile}				
9/02032	• • {generating a spatial carrier frequency, e.g. by creating lateral or angular offset between reference and object beam (shearing interferometers <u>G01B 9/02098</u> )}				
9/02034	<ul> <li>{characterised by particularly shaped beams or wavefronts}</li> </ul>				
9/02035	• • • {Shaping the focal point, e.g. elongated focus}				
9/02036	•••• {by using chromatic effects, e.g. a wavelength dependent focal point}				
9/02037 9/02038	<ul> <li> {by generating a transverse line focus}</li> <li> {Shaping the wavefront, e.g. generating a</li> </ul>				

9/02039	• • • {by matching the wavefront with a particular
	object surface shape}
9/02041	• • {characterised by particular imaging or detection
	techniques}
9/02042	• • • {Confocal imaging}
9/02043	• • {Imaging of the Fourier or pupil or back focal plane, i.e. angle resolved imaging}
9/02044	• • • {Imaging in the frequency domain, e.g. by
0.00045	using a spectrometer}
9/02045	• • • {using the Doppler effect}
9/02047	• • {using digital holographic imaging, e.g. lensless phase imaging without hologram in the reference path}
9/02048	• • {Rough and fine measurement}
9/02048	<ul> <li>. {characterised by particular mechanical design</li> </ul>
	details}
9/0205	• • • {of probe head}
9/02051	• • {Integrated design, e.g. on-chip or monolithic}
9/02052	• • {Protecting, e.g. shock absorbing,
	arrangements }
9/02054	• • • {Hand held}
9/02055	• • Reduction or prevention of errors; Testing;
	Calibration
9/02056	• • Passive reduction of errors
9/02057	•••• {by using common path configuration, i.e.
	reference and object path almost entirely overlapping}
9/02058	•••• {by particular optical compensation
	or alignment elements, e.g. dispersion
	compensation}
9/02059	• • • • {Reducing effect of parasitic reflections, e.g.
	cyclic errors}
9/02061	Reduction or prevention of effects of tilts or
	misalignment
9/02062	• • • {Active error reduction, i.e. varying with time}
9/02063	• • • {by particular alignment of focus position, e.g. dynamic focussing in optical coherence
	tomography}
9/02064	• • • {by particular adjustment of coherence gate,
	i.e. adjusting position of zero path difference in low coherence interferometry }
9/02065	•••• {using a second interferometer before or
	after measuring interferometer}
9/02067	• • • {by electronic control systems, i.e. using
	feedback acting on optics or light}
9/02068	• • • • • {Auto-alignment of optical elements}
9/02069	• • • • • {Synchronization of light source or
	manipulator and detector}
9/0207	• • • {Error reduction by correction of the
	measurement signal based on independently
	determined error sources, e.g. using a reference
0/00071	interferometer}
9/02071	• • • • {by measuring path difference independently
0/02072	from interferometer}
9/02072	• • • • {by calibration or testing of interferometer}
9/02074	$\cdot \cdot \cdot \cdot \{ \text{of the detector} \}$
9/02075	• • • {of particular errors}
9/02076	{Caused by motion}
9/02077	$\ldots$ {of the object}
9/02078	{Caused by ambiguity}
9/02079	• • • • {Quadrature detection, i.e. detecting relatively phase-shifted signals}
9/02081	••••• {simultaneous quadrature detection, e.g.
	by spatial phase shifting}

9/02082	• • • {Caused by speckles}
9/02083	
9/02085	
	presentation }
9/02084	• • • {Processing in the Fourier or frequency domain
<i>,,</i> ,, <u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	when not imaged in the frequency domain}
	· · ·
9/02085	• • • {Combining two or more images of different
	regions}
0.0000	<b>e</b> ,
9/02087	• • • {Combining two or more images of the same
	region}
9/02088	• • • {Matching signals with a database}
9/02089	• • • {Displaying the signal, e.g. for user
	interaction }
9/0209	Low-coherence interferometers
9/02091	Tomographic interferometers, e.g. based on
	optical coherence
9/02092	
9/02092	
	light from object into laser cavity }
9/02094	• • {Speckle interferometers, i.e. for detecting
	changes in speckle pattern}
0.00000	
9/02095	• • • {detecting deformation from original shape}
9/02096	• • • {detecting a contour or curvature}
9/02097	. Self-interferometers
9/02098	Shearing interferometers
9/021	• • using holographic techniques
9/023	for contour producing
	( <u>G01B 9/025</u> - <u>G01B 9/029</u> take precedence)
9/025	Double exposure technique
9/027	• • • in real time
9/029	• • • by time averaging
9/04	Measuring microscopes
9/06	Measuring telescopes
9/08	Optical projection comparators
3/08	• Optical projection comparators
9/08 9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> </ul>
9/10	. Goniometers for measuring angles between surfaces
	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use</li> </ul>
9/10	. Goniometers for measuring angles between surfaces
9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> </ul>
9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u></li> </ul>
9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> </ul>
9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u></li> <li>When classifying in this group, specific optical</li> </ul>
9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in</li> </ul>
9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u></li> <li>When classifying in this group, specific optical</li> </ul>
9/10 <b>11/00</b>	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u></li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> </ul>
9/10	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u></li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> </ul>
9/10 <b>11/00</b>	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u></li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> </ul>
9/10 <b>11/00</b> 11/002 11/005	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u> <ul> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>{coordinate measuring machines}</li> </ul> </li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u> <ul> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>{coordinate measuring machines}</li> <li>{feeler heads therefor}</li> </ul> </li> </ul>
9/10 <b>11/00</b> 11/002 11/005	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li><u>NOTE</u> <ul> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>{coordinate measuring machines}</li> <li>{feeler heads therefor}</li> </ul> </li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022 11/024	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/022 11/024 11/026	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022 11/024	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/022 11/024 11/026	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/022 11/024 11/026	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024,</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022 11/024 11/026 11/028	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/068 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/04 take precedence)}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022 11/024 11/026 11/028 11/028	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/04 take precedence)}</li> <li>. by measuring coordinates of points</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022 11/024 11/026 11/028	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/068 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/04 take precedence)}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/02 11/022 11/024 11/026 11/028 11/028	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/04 take precedence)}</li> <li>. by measuring coordinates of points</li> <li>. specially adapted for measuring length or width</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/024 11/026 11/028 11/03 11/04	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/04 take precedence)}</li> <li>. by measuring coordinates of points</li> <li>. specially adapted for measuring length or width of objects while moving</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/024 11/026 11/028 11/028 11/03 11/04 11/043	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/04 take precedence)}</li> <li>. by measuring coordinates of points</li> <li>. specially adapted for measuring length or width of objects while moving</li> <li>. {for measuring length}</li> </ul>
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9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/024 11/026 11/028 11/028 11/03 11/04 11/043 11/043 11/045	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/024, G01B 11/04 take precedence)}</li> <li>. by measuring coordinates of points</li> <li>. specially adapted for measuring length or width of objects while moving</li> <li>. {for measuring length}</li> <li>. {for measuring width}</li> <li>. of measuring thickness {; e.g. of sheet material</li> </ul>
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9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/022 11/024 11/026 11/028 11/03 11/043 11/043 11/043 11/046 11/06	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/024, G01B 11/04 take precedence)}</li> <li>. by measuring coordinates of points</li> <li>. specially adapted for measuring length or width of objects while moving</li> <li>. {for measuring length}</li> <li>. {for measuring width}</li> <li>. for measuring thickness {; e.g. of sheet material (thickness measurement by thermal means G01B 21/085)}</li> <li>. {Height gauges}</li> </ul>
9/10 <b>11/00</b> 11/002 11/005 11/007 11/022 11/022 11/024 11/026 11/028 11/028 11/03 11/04 11/043 11/043 11/043 11/043	<ul> <li>Goniometers for measuring angles between surfaces</li> <li>Measuring arrangements characterised by the use of optical techniques</li> <li>NOTE</li> <li>When classifying in this group, specific optical measuring instruments can be further classified in group G01B 9/00.</li> <li>{for measuring two or more coordinates}</li> <li>. {coordinate measuring machines}</li> <li>. {feeler heads therefor}</li> <li>for measuring length, width or thickness (G01B 11/08 takes precedence)</li> <li>. {by means of tv-camera scanning}</li> <li>. {by means of diode-array scanning}</li> <li>. {by measuring distance between sensor and object (G01B 11/0608 takes precedence)}</li> <li>. {by measuring lateral position of a boundary of the object (G01B 11/022, G01B 11/024, G01B 11/04 take precedence)}</li> <li>. by measuring coordinates of points</li> <li>. specially adapted for measuring length or width of objects while moving</li> <li>. {for measuring length}</li> <li>. {for measuring width}</li> <li>for measuring thickness {; e.g. of sheet material (thickness measurement by thermal means G01B 21/085)}</li> </ul>

11/0625	• • • • {with measurement of absorption or
	reflection}
11/0633	• • • • {using one or more discrete wavelengths}
11/0641	• • • { with measurement of polarization }
11/065	{using one or more discrete wavelengths}
11/0658	• • • • { with measurement of emissivity or reradiation }
11/0666	• • • { using an exciting beam and a detection
	beam including surface acoustic waves
	[SAW]}
11/0675	• • • {using interferometry}
11/0683	• • • • {measurement during deposition or removal of the layer}
11/0691	• • • {of objects while moving ( <u>G01B 11/0616</u> takes precedence)}
11/08	for measuring diameters
11/10	• • of objects while moving
11/105	• • • {using photoelectric detection means}
11/12	internal diameters
11/14	. for measuring distance or clearance between spaced
	objects or spaced apertures ( <u>G01B 11/26</u> takes precedence; rangefinders <u>G01C 3/00</u> )
11/16	for measuring the deformation in a solid, e.g. optical
	strain gauge
11/161	• • {by interferometric means}
11/162	• • • {by speckle- or shearing interferometry}
11/164	• • • {by holographic interferometry}
11/165	• • {by means of a grating deformed by the object}
11/167	• • {by projecting a pattern on the object}
11/168	• • {by means of polarisation}
11/18	• • {using photoelastic elements}
11/20	• • {using brittle lacquer}
11/22	• for measuring depth
11/24	. for measuring contours or curvatures
11/2408	• • {for measuring roundness}
11/2416	• {of gears (optical projection profile comparators G01B 9/08)}
11/2425	• {of screw-threads}
11/2433	• • {for measuring outlines by shadow casting}
11/2441	• {using interferometry}
11/245	• • using a plurality of fixed,
	simultaneously operating transducers
	({ <u>G01B 11/2408</u> - <u>G01B 11/2425</u> , } <u>G01B 11/255</u>
	take precedence)
11/25	• • by projecting a pattern, e.g. {one or more lines,}
	moiré fringes on the object (G01B 11/255 takes
	precedence {; image analysis for depth or shape
11/2504	recovery <u>G06T 7/50</u> }) {Calibration devices}
11/2504 11/2509	
11/2509	
11/2313	• • • {with several lines being projected in more than one direction, e.g. grids, patterns}
11/2518	• • • {Projection by scanning of the object}
11/2522	• • • { the position of the object changing and
	being recorded}
11/2527	• • • • {with phase change by in-plane movement of the patern}
11/2531	• • {using several gratings, projected with variable
	angle of incidence on the object, and one
	detection device}
11/2536	• • • {using several gratings with variable grating
	pitch, projected on the object with the same
	angle of incidence}

11/254	••• {Projection of a pattern, viewing through a pattern, e.g. moiré}
11/2545	• • { with one projection direction and several detection directions, e.g. stereo }
11/255	<ul> <li>for measuring radius of curvature {(measuring diameter <u>G01B 11/08</u>)}</li> </ul>
11/26	• for measuring angles or tapers; for testing the alignment of axes
11/27	<ul> <li>for testing the alignment of axes {(means for centering or aligning a light guide within a ferrule G02B 6/3834)}</li> </ul>
11/272	• • • {using photoelectric detection means}
11/275	for testing wheel alignment
11/2755	• • • {using photoelectric detection means}
11/28	• for measuring areas
11/285	• • {using photoelectric detection means}
11/30	<ul> <li>for measuring roughness or irregularity of surfaces</li> </ul>
11/303	• • {using photoelectric detection means}
11/306	• • {for measuring evenness}
13/00	Measuring arrangements characterised by the use
	of fluids
13/02	. for measuring length, width or thickness
	(G01B 13/08 takes precedence)
13/03	• • by measuring coordinates of points
13/04	• specially adapted for measuring length or width of objects while moving
13/06	• • for measuring thickness
13/065	• • • {Height gauges}
13/08	• for measuring diameters
13/10	• • internal diameters
13/12	• for measuring distance or clearance between spaced objects or spaced apertures (G01B 13/18 takes precedence)
13/14	for measuring depth
13/16	. for measuring contours or curvatures
13/18	• for measuring angles or tapers; for testing the alignment of axes
13/19	• • for testing the alignment of axes
13/195	for testing wheel alignment
13/20	• for measuring areas, e.g. pneumatic planimeters
13/22	. for measuring roughness or irregularity of surfaces
13/24	• for measuring the deformation in a solid
15/00	Measuring arrangements characterised by the use
	of electromagnetic waves or particle radiation,
	e.g. by the use of microwaves, X-rays, gamma
	rays or electrons (characterised by the use of optical techniques <u>G01B 9/00</u> , <u>G01B 11/00</u> )
15/02	
15/02	• for measuring thickness
15/025 15/04	<ul><li> {by measuring absorption}</li><li> for measuring contours or curvatures</li></ul>
15/04	<ul> <li>. {by measuring absorption}</li> </ul>
15/045	
15/08	<ul><li>for measuring the deformation in a solid</li><li>for measuring roughness or irregularity of surfaces</li></ul>
17/00	Measuring arrangements characterised by the use
	of infrasonic, sonic or ultrasonic vibrations
17/02	for measuring thickness
17/025	• {for measuring thickness of coating}
17/04	• for measuring the deformation in a solid, e.g. by
17/06	vibrating string
17/06	. for measuring contours or curvatures
17/08	• for measuring roughness or irregularity of surfaces

21/00	Measuring arrangements or details thereof, where the measuring technique is not covered by the other groups of this subclass, unspecified or not relevant
	NOTE
	{Measuring arrangements or details thereof covered by two or more of groups <u>G01B 3/00</u> - <u>G01B 17/00</u> are classified in this group if no single other group can be selected as being predominantly applicable.}
21/02	• for measuring length, width, or thickness ( <u>G01B 21/10</u> takes precedence)
21/04	• • by measuring coordinates of points
21/042	{Calibration or calibration artifacts ( <u>G01B 3/30</u> , <u>G01B 9/02072</u> take precedence)}
21/045	{Correction of measurements (G01B 9/02055 takes precedence)}
21/047	• • • {Accessories, e.g. for positioning, for tool- setting, for measuring probes}
21/06	• • specially adapted for measuring length or width of objects while moving
21/065	• • { for stretchable materials }
21/08	• • for measuring thickness
21/085	• • • {using thermal means}
21/10	• for measuring diameters
21/12	• • of objects while moving
21/14	• internal diameters {(of boreholes or wells <u>E21B 47/08</u> )}
21/16	• for measuring distance of clearance between spaced objects
21/18	• for measuring depth
21/20	<ul> <li>for measuring contours or curvatures, e.g. determining profile</li> </ul>
21/22	• for measuring angles or tapers; for testing the alignment of axes
21/24	• • for testing alignment of axes
21/26	• • for testing wheel alignment
21/28	• for measuring areas
21/30	. for measuring roughness or irregularity of surfaces
21/32	• for measuring the deformation in a solid
2210/00	Aspects not specifically covered by any group
	under <u>G01B</u> , e.g. of wheel alignment, caliper-like sensors
2210/10	
2210/10	<ul><li>Wheel alignment</li><li>Method or fixture for calibrating the wheel</li></ul>
2210/12	<ul> <li>aligner</li> <li>One or more cameras or other optical devices</li> </ul>
2210/14	<ul> <li>One of more cameras of other optical devices capable of acquiring a two-dimensional image</li> <li>One or more cameras on each side of a vehicle</li> </ul>
	in the main embodiment
2210/146	• • • Two or more cameras imaging the same area
2210/16	• Active or passive device attached to the chassis of a vehicle
2210/18	Specially developed for using with motorbikes or other two-wheeled vehicles
2210/20	• Vehicle in a state of translatory motion
2210/22	• Wheels in a state of motion supported on rollers, rotating platform or other structure substantially capable of only one degree of rotational freedom
2210/24	• • Specially developed for using with trucks or other heavy-duty vehicles

2210/26	
	• Algorithms, instructions, databases, computerized methods and graphical user interfaces employed by a user in conjunction with the wheel aligner
2210/28	• Beam projector and related sensors, camera, inclinometer or other active sensing or projecting
	device
2210/283	Beam projectors and related sensors
2210/286	• • • Projecting a light pattern on the wheel or vehicle body
2210/30	• Reference markings, reflector, scale or other passive device
2210/303	• • fixed to the ground or to the measuring station
2210/306	• • • Mirror, prism or other reflector
2210/200	. Caliper-like sensors
2210/42	<ul> <li>with one or more detectors on a single side of the</li> </ul>
2210/42	object to be measured and with a backing surface of support or reference on the other side
2210/44	• • with detectors on both sides of the object to be
	measured
2210/46	• • with one or more detectors on a single side of the
	object to be measured and with a transmitter on the other side
2210/48	for measurement of a wafer
2210/50	. Using chromatic effects to achieve wavelength-
	dependent depth resolution
2210/52	• Combining or merging partially overlapping images
	to an overall image
2210/54	. Revolving an optical measuring instrument around a
	body
2210/56	. Measuring geometric parameters of semiconductor
	structures, e.g. profile, critical dimensions or trench
	depth
2210/58	. Wireless transmission of information between a
	sensor or probe and a control or evaluation unit
2210/60	Unique sensor identification
2210/60	
2210/60	• Support for workpiece air film or bearing with
	-
	• Support for workpiece air film or bearing with
2210/62	• Support for workpiece air film or bearing with positive or negative pressure
2210/62	<ul><li>Support for workpiece air film or bearing with positive or negative pressure</li><li>Interconnection or interfacing through or under</li></ul>
2210/62 2210/64	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> </ul>
2210/62 2210/64 2210/66	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> </ul>
2210/62 2210/64	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b>	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under G01B 9/02</li> <li>Astronomic interferometers</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b>	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under G01B 9/02</li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/30	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/30 2290/35	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/30 2290/35 2290/40	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under G01B 9/02</li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> <li>Non-mechanical variable delay line</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/30 2290/35	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/30 2290/35 2290/40	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under G01B 9/02</li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> <li>Non-mechanical variable delay line</li> <li>Multiple detectors for detecting interferometer</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/20 2290/35 2290/30 2290/35 2290/40 2290/45	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under G01B 9/02</li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> <li>Multiple detectors for detecting interferometer signals</li> <li>Pupil plane manipulation, e.g. filtering light of</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/20 2290/25 2290/30 2290/35 2290/40 2290/45 2290/50	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> <li>Non-mechanical variable delay line</li> <li>Multiple detectors for detecting interferometer signals</li> <li>Pupil plane manipulation, e.g. filtering light of certain reflection angles</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/30 2290/35 2290/40 2290/45 2290/40 2290/50 2290/55	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> <li>Non-mechanical variable delay line</li> <li>Multiple detectors for detecting interferometer signals</li> <li>Pupil plane manipulation, e.g. filtering light of certain reflection angles</li> <li>Quantum effects</li> <li>Reference interferometer, i.e. additional</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/30 2290/35 2290/40 2290/45 2290/40 2290/50 2290/55	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> <li>Non-mechanical variable delay line</li> <li>Multiple detectors for detecting interferometer signals</li> <li>Pupil plane manipulation, e.g. filtering light of certain reflection angles</li> <li>Quantum effects</li> </ul>
2210/62 2210/64 2210/66 <b>2290/00</b> 2290/10 2290/15 2290/20 2290/25 2290/20 2290/25 2290/30 2290/35 2290/40 2290/45 2290/45 2290/55 2290/55	<ul> <li>Support for workpiece air film or bearing with positive or negative pressure</li> <li>Interconnection or interfacing through or under capping or via rear of substrate in microsensors</li> <li>Rock or ground anchors having deformation measuring means</li> <li>Aspects of interferometers not specifically covered by any group under <u>G01B 9/02</u></li> <li>Astronomic interferometers</li> <li>Cat eye, i.e. reflection always parallel to incoming beam</li> <li>Dispersive element for generating dispersion</li> <li>Fabry-Perot in interferometer, e.g. etalon, cavity</li> <li>Grating as beam-splitter</li> <li>Mechanical variable delay line</li> <li>Non-mechanical variable delay line</li> <li>Multiple detectors for detecting interferometer signals</li> <li>Pupil plane manipulation, e.g. filtering light of certain reflection angles</li> <li>Quantum effects</li> <li>Reference interferometer, i.e. additional interferometer not interacting with object</li> </ul>