CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(NOTES omitted)

INSTRUMENTS

G04B

G04 HOROLOGY

MECHANICALLY-DRIVEN CLOCKS OR WATCHES; MECHANICAL PARTS OF CLOCKS OR WATCHES IN GENERAL; TIME PIECES USING THE POSITION OF THE SUN, MOON OR STARS (spring- or weight-driven mechanisms in general <u>F03G</u>; electromechanical clocks or watches <u>G04C</u>; electromechanical clocks with attached or built-in means operating any device at pre-selected times or after predetermined time intervals G04C 23/00; clocks or watches with stop devices G04F 7/08)

NOTE

This subclass covers mechanically-driven clocks or clockwork calendars, and the mechanical part of such clocks or calendars.

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.

Driving med	<u>hanisms</u>	1/145	{Composition and manufacture of the
1/00	Driving mechanisms {(driving mechanisms for Turkish time <u>G04B 19/22</u> ; driving mechanisms in the hands <u>G04B 45/043</u> ; driving mechanisms for phonographic apparatus <u>G11B 19/00</u> ; springs, driving weight engines <u>F03G</u> ; driving mechanisms for cinematography <u>G03B 1/00</u> ; driving mechanisms; driving mechanisms for time fuses for missiles <u>F42C</u> ; driving mechnisms for toys <u>A63H 29/00</u>)}		springs (compositions and manufacture of components, wheels, spindles, pivots, or the like <u>G04B 13/02</u> ; compositions of component escapements <u>G04B 15/14</u> ; composition and manufacture or hairsprings <u>G04B 17/066</u> ; compensation for the effects of variations of temperature of springs using alloys, especially for hairsprings <u>G04B 17/227</u> ; materials for bearings of clockworks <u>G04B 31/00</u> ;
1/02	• with driving weight		heat treatment and chemical or mechanical
1/04	Mechanisms in which the clockwork acts as the driving weight		treatment for control of the structure C21D 8/00; iron and steel alloys C22C; non-
1/06	• • with several weights {(winding up several		ferrous alloys C22C and B22F)}
	weights simultaneously <u>G04B 3/00</u>)}	1/16	Barrels; Arbors; Barrel axles (arrangements
1/08	• Driving weights; Chains; Chain wheels; Arbors for chain wheels {(wheels and spindles in general		facilitating the removal of the mainspring G04B 33/14)
1/10	F16F)}with mainspring {(synchronous motors with power reserve <u>G04C 15/0054</u>; springs in general <u>F16F</u>)}	1/165	• • • {Spring cylinder with friction transmission to the gearing (especially for Roskopf clockworks); (friction clutch between spring
1/105	• • {having a form other than a helix (<u>G04B 1/12</u> and <u>G04B 1/14</u> take precedence)}	1/18	and spring cylinder <u>G04B 1/185</u>)} • Constructions for connecting the ends of
1/12	• with several mainsprings {(installations with a mainspring and an auxiliary spring G04B 1/225; winding-up several mainsprings simultaneously G04B 3/008)}		the mainsprings with the barrel or the arbor {(mainsprings and bridles therefor <u>G04B 1/14</u> ; clamping the hairspring on the regulator <u>G04B 18/026</u> ; clamping the hairspring on the
1/14	 Mainsprings; Bridles therefor (mainsprings with bridles G04B 1/18; alloys C22C; springs in general F16F {; constructions for compensation of changes in the motive power of the mainspring G04B 1/22; construction of the hairspring G04B 17/066; arrangements facilitating the 	1/185	 arbor G04B 17/32)} • {Friction clutch between spring and spring cylinder (friction transmission between spring cylinder and gearing G04B 1/165; other arrangements for protection against rupture or overwinding G04B 1/20)}

CPC - 2025.05

removal of the mainspring G04B 33/14})

Driving mechanisms G04B

1/20	 Protecting arrangements against rupture or overwinding of the mainspring located in the barrel or attached to the barrel (in connection with keys or the like G04B 3/06, G04B 3/10; 	3/006	• {Mechanical winding up; winding up with special equipment (removably-mounted keys <u>G04B 3/02</u> ; winding up equipment for clocks with automatic winding up equipment <u>G04B 5/00</u>)}
	in connection with automatic winding devices G04B 5/24 {; protecting arrangements in which the spring and the spring cylinder are connected by friction G04B 1/185; protecting arrangements G04B 9/02; calibers with arrangements affording protection of the clockwork against damage as a consequence of a rupture of the mainspring G04B 33/16; electric winding arrangements	3/008	• {Winding up several mainsprings or driving weights simultaneously (driving mechanisms with several weights <u>G04B 1/06</u> ; driving mechanisms with several mainsprings <u>G04B 1/12</u> ; driving mechanisms with a mainspring and a secondary spring <u>G04B 1/225</u> ; driving mechanisms with mainsprings and driving weights <u>G04B 1/24</u> ; winding up the striking mechanisms with the clockwork and <u>vice versa G04B 21/14</u>)}
1/205	with protection against overwinding of mechanical clockworks <u>G04C 1/10</u> ; driving mechanisms for gramophones <u>G11B 19/22</u> , <u>G11B 19/28</u> }) {Stop-mechanisms}	3/02	 Removably-mounted keys or the like {(special tools for clockworks with difficult access, universal keys for watches with a small crown <u>G04B 3/006</u>; keys with means preventing overwinding <u>G04B 3/06</u>; protecting means preventing overwinding
1/22	Compensation of changes in the motive power		G04B 3/10)}
	of the mainspring (by mechanical shaping of the mainspring G04B 1/14 {; automatic regulation	3/04	• Rigidly-mounted keys, knobs or crowns {(jointed winding-stem <u>G04B 37/06</u>)}
1/225	of the pendulum <u>G04B 18/003</u> ; of the regulator <u>G04B 19/28</u> }) • • { with the aid of an interposed power-	3/041	 {Construction of crowns for rotating movement; connection with the winding stem; winding stems}
	accumulator (secondary spring) which is always tensioned (winding up several	3/043	 {Locking of the operating element, also by mounting in a concealed place}
1/24	mainsprings or driving weights simultaneously G04B 3/008)} with both mainsprings and driving weights	3/045	• • {Storing the operating element, also bringing it out of storage}
1/26	{(winding up several mainsprings or driving weights simultaneously <u>G04B 3/008</u>)} driven by liquids or gases; Liquid or gaseous	3/046	Operation by rotation and axial movement with extra function of axial shift of operating element, e.g. crown combined with push button (winding
1/20	drives for mechanically-controlled secondary clocks {(winding up by pneumatic means <u>G04B 3/12</u> ; winding up automatically by wind power <u>G04B 5/203</u> ; winding up by electro-thermal	3/048	 up by push button <u>G04B 3/001</u>)} • {Operation exclusively by axial movement of a push-button, e.g. for chronographs (winding up by push button <u>G04B 3/001</u>; hermetically sealed push button <u>G04B 37/106</u>)}
	or electro-pneumatic arrangements <u>G04C 1/003</u> ; thermo-electric or thermo-pneumatic driving mechanisms <u>G04C 3/18</u>)}	3/06	 Keys or the like with means preventing overwinding (protecting devices arranged in, or attached to, the barrel <u>G04B 1/20</u>; in connection with automatic
1/265	 {Clockwork systems working therewith (winding up electrical or mechanical clocks <u>G04C 1/006</u>; electrical clockwork installations <u>G04C 13/00</u>)} 		winding devices <u>G04B 1/24</u> {; construction of removably-mounted keys <u>G04B 3/02</u> ; means preventing overwinding, including those attached to
Winding			the case, <u>G04B 3/10</u> ; protecting means <u>G04B 9/02</u> ; protection against overwinding for electrical
3/00	Normal winding of clockworks by hand or mechanically; Winding up several mainsprings or		winding up arrangements for mechanical clocks <u>G04C 1/10</u> })
	driving weights simultaneously {(automatic winding up G04B 5/00; combined normal and automatic	3/08	by parts of the cases {(setting the time-indicating means by parts of the case <u>G04B 27/00</u>)}
	winding up G04B 7/00; click devices G04B 11/00; winding up the striking mechanism by the clockwork and vice versa G04B 21/14; mechanical devices for setting the time-indication by using the winding means G04B 27/02, G04B 27/083; calibers of which the maintains are assily represented G04B 22/14;	3/10	• Protecting means preventing overwinding (arranged in, or attached to, the barrel G04B 1/20; in connection with keys G04B 3/06; in connection with automatic winding devices G04B 5/24 {; protection G04B 9/02; of electrical winding up arrangements for mechanical clocks G04C 1/10})
3/001	the mainsprings are easily removable <u>G04B 33/14</u> ; winding mechanical clocks electrically <u>G04C 1/00</u> ; tools for setting springs <u>G04D 1/04</u> ; driving mechanisms for gramophones <u>G11B 19/00</u> ; driving mechanisms for cinematographs <u>G03B 1/00</u>)} • {by push button (crown combined with push	3/12	 by mechanical means, e.g. pneumatic motor (winding up with electric or electromechanical means <u>G04C</u> {; liquid or gas driving mechanisms <u>G04B 1/26</u>; automatic winding up by wind power <u>G04B 5/203</u>})
	button <u>G04B 3/046</u> ; construction of push button <u>G04B 3/048</u> ; waterproof push buttons <u>G04B 37/106</u>)}	5/00	Automatic winding up {(normal winding up by hand or mechanically <u>G04B 3/00</u> ; automatic winding in
3/003	• {by lever mechanism}		combination with hand winding G04B 7/00; electrical
3/003	{by lever mechanism}{by draw mechanism}		winding of mechanical clockworks <u>G04C 1/00</u> ; advertising by making use of vibrations or shocks of land vehicles <u>G09F 21/045</u>)}

Winding G04B

5/002	 {by moving of parts of the clockwork which are not primarily for winding up} 	5/206	• • {by rotating axles, e.g. tachometers (direct drive of the clockwork, e.g. without winding up of a
5/005	• {by relative movement between watch bands, case or parts of the case}		spring or the like by a rotating axle <u>G04B 7/00</u> ; combination with measuring instruments in
5/007	• {Clockworks, which wind up by driving the function, e.g. perpetua mobilia (see also F03G 7/10)}	5/22	general <u>G04B 47/06</u>)} • by thermometric, barometric or like effects or alterations {(by electrothermal or electropneumatic
5/02	 by self-winding caused by the movement of the 		driving means G04C 1/003; driving the clockwork
	watch {(bearings, suspensions for oscillating	7 (O.4	by such means <u>G04C 3/18</u>)}
	weights <u>G04B 5/18</u> ; mechanisms for transformation of an oscillating movement into a rotating movement in only one direction <u>G04B 11/00</u>)}	5/24	• Protecting means preventing overwinding (arranged in, or attached to, the barrel G04B 1/20; in connection with keys or the like G04B 3/06; in
5/04	 by oscillating weights the movement of which is limited {(setting the time indicating means with the aid of a rocking bar <u>G04B 27/00</u>)} 		connection with parts of the cases <u>G04B 3/10</u> {; support of the moving weight <u>G04B 5/18</u> ; protection means <u>G04B 9/02</u> ; electrical driving means for
5/06	acting in one direction only	5/245	mechanical clockworks <u>G04C 1/10</u> }) • • {by locking the moving weight}
5/08	acting in both directions		
5/10	by oscillating weights the movement of which is not limited	7/00	Combined normal and automatic winding up {(normal winding up by hand or mechanically
5/12	acting in one direction only		G04B 3/00; automatic winding up G04B 5/00; electric
5/14	acting in both directions		winding up of mechanical clockworks <u>G04C 1/003</u>)}
5/16	Construction of the weights	0.10.0	
5/165	• • • {Weights consisting of several parts (diverse	9/00	Supervision of the state of winding, e.g. indicating the amount of winding
	weights which are movable in more than one plane <u>G04B 5/187</u>)}	9/005	• {by optical indication of the amount of winding}
5/18	Supports, suspensions or guide arrangements,	9/02	Devices controlled by such state, e.g. device
5/10	for oscillating weights {(transmission of the		affording protection means against overwinding
	movement of the winding up weight to the		(protecting means preventing overwinding arranged
	mainspring G04B 5/04, G04B 5/10; support of		in or on the barrel <u>G04B 1/20</u> ; protecting means in connection with keys or the like <u>G04B 3/06</u> ;
	the driving weight by protecting means which		in connection with parts of the cases <u>G04B 3/10</u> ;
	prevent overwinding, e.g. by interposing of a glide clutch <u>G04B 5/24</u> ; bearings in general		in connection with automatic winding devices
	G04B 33/00)}		G04B 5/24 {; electric winding up of mechanical
5/181	{The bearing of the rocking bar is in the centre		clockworks <u>G04C 1/10</u> })
	of rotation combined with a support or guide	9/025	• • {Acoustical or electrical indicating means}
5/182	arrangement)	11/00	Click devices; Stop clicks; Clutches {(mechanisms
3/162	 {Guide arrangement of the moving weight in a straight course} 		for winding up by hand <u>G04B 3/00</u> ; automatic
5/184	• • • {Guide arrangement of the moving weight in a		winding up <u>G04B 5/00</u> ; clutches in general, class 111)}
	circular course}	11/001	• {Clutch mechanism between two rotating members
5/185	• • • {Suspension of the moving weight by elastic means (<u>G04B 5/187</u> takes precedence)}	11/001	with transfer of movement in both directions, possibly with limitation on the transfer of power}
5/187	• • • {Bearing, guide arrangements or suspension	11/003	• { with friction member, e.g. with spring action}
	allowing movement in more than one plane,	11/005	• • {with magnetic elements}
	e.g. there is more than one moving weight,	11/006	• {Clutch mechanism between two rotating members
	or more than one plane in which the weight moves, and it can change place relative to the		with transfer of movement in only one direction
	clockwork}	11/000	(free running devices)}
5/188	{Bearing, guide arrangements or suspension of	11/008	 { with friction members, e.g. click springs or jumper}
	the movement forming oscillating weight}	11/02	Devices allowing the motion of a rotatable part in
5/19	Suspension of the oscillating weight at its centre of rotation	11,02	only one direction
5/195	• • • { the centre of rotation not being the centre of	11/022	• • { with a ratchet which makes contact with the
3/193	the clockwork}	11/024	rotating member by means of teeth}
5/20	• by movements of other objects, e.g. by opening a	11/024	 {rotatable about a fixed axis by means of spring action}
	hand-bag, by opening a case, by opening a door;	11/026	• • {with clamping member}
# /A C =	Winding up by wind power	11/028	• • {with friction member, e.g. click spring}
5/203	• • {by liquids or gases (driven by liquids or gases	11/04	• Pawl constructions therefor, e.g. pawl secured to
	G04B 1/26; winding up by pneumatic motor G04B 3/12; winding up by electrothermal or electropneumatic driving means G04C 1/003; driving of the clockwork by such means		an oscillating member actuating a ratchet
	G04C 3/18)}		

<u>ulation n</u>	<u>nechanism</u>	17/00	Mechanisms for stabilising frequency {(for setting
13/00	Gearwork {(gearwork for driving the hands	17/00	frequency G04B 18/00; magnetic G04C 5/005;
10/00	G04B 19/02; calibers G04B 33/00; dispositions and		in striking mechanisms G04B 21/06; stopping
	components for transmission in general F16H)}		and regulating of the running G04B 23/023;
13/001	• {with the choice of adjustable or varying		electrically driven mechanical regulation <u>G04C 3/10</u>
	transmission ratio}		electrical and thermo-electric regulating mechanism
13/002	• {where rotation in one direction is changed into a		<u>G04C 5/00</u>)}
	stepping movement}	17/005	• {Regulating mechanisms where the movement
13/003	• • {with a step for each complete revolution		is maintained by pneumatic means (oscillation
10/005	(counters in general <u>H03K</u>)}	17/02	generation by pneumatic means <u>G04F 5/12</u>)}
13/005	• {where a revolution in both directions is changed	17/02	 Oscillators acting by gravity, e.g. pendulum swinging in a plane {(setting the pendulum to
13/006	into a revolution in one direction}• {with two free wheel positions}		the required length <u>G04B 18/003</u> ; temperature
13/007	 {with two free wheel positions} {with differential work}		compensation for pendulums G04B 17/225;
13/007	• {With differential work} • • {Differentials}		bearings in general, e.g. knife-edge <u>G04B 31/00</u> ;
13/008	Wheels; Pinions; Spindles; Pivots (bearings)		clocks fitted in pendulums G04B 45/043; imitation
13/02	G04B 31/00 {; chain wheels, spindles for		pendulums driven by the clock mechanism
	chain wheels, also chains and driving weights		G04B 45/0046, G04B 45/0053; pendulum
	<u>G04B 1/08</u> })		ornamentation <u>G04B 45/0061</u> ; contacts actuated l
13/021	• • {elastic fitting with a spindle, axis or shaft}		a pendulum <u>G04C 13/065</u> ; measurement of force with a pendulum <u>G01V 7/12</u>)}
13/022	• • • {with parts made of hard material, e.g. silicon,	17/025	• • {Composite and multiple pendulums;
	diamond, sapphire, quartz and the like}	17/023	Synchronisation of mechanical pendulums, e.g
13/023	• • • {allowing rotational slipping when a threshold		electrical synchronisation <u>G04C 3/025</u> ; pendulu
	torque is exceeded}		systems <u>G04C 13/028</u> }
13/025	• • {with elastic means between the toothing and the	17/04	Oscillators acting by spring tension
	hub of a toothed wheel}	17/045	• • {with oscillating blade springs (mechanical
13/027	• • {planar toothing: shape and design (adjusting the		oscillations maintained by electro-magnetic
	backlash of the arbors <u>G04B 35/00</u>)}		means, e.g. tuning forks G04C 3/10)}
13/028	• • {wheels in which the teeth are conic, contrate,	17/06	Oscillators with hairsprings, e.g. balance
	etc; also column wheels construction (start-stop mechanisms with column wheels <u>G04F 7/0847</u>)}		{(electrically driven balances <u>G04C 3/04</u> ;
	mechanisms with column wheels <u>6041 //0847</u>)}		contacts actuated by a balance <u>G04C 13/065</u>)}
erating n	nechanisms	17/063	{Balance construction (balances with freque
15/00	E		adjustment screw <u>G04B 18/006</u> ; balances with temperature compensation <u>G04B 17/22</u>
15/00	Escapements ({in striking mechanisms <u>G04B 21/06</u> ;} electric or magnetic means for converting oscillatory		balancing devices G04B 17/28)}
	to rotary motion in electromechanical time-pieces	17/066	• • • {Manufacture of the spiral spring (locking
	$\{\underline{604C\ 5/005}\}$)	,	of the spiral spring by the regulating lever
15/02	• permanently in contact with the regulating		G04B 18/026; spiral spring with temperature
	mechanism		compensation G04B 17/227; fixation of
15/04	Cylinder escapements		the spiral spring on the collet <u>G04B 17/32</u> ;
15/06	Free escapements		mainspring G04B 1/14)
15/08	Lever escapements	17/08	Oscillators with coil springs stretched and
15/10	with constant impulses for the regulating	17/10	unstretched axially
	mechanism {(electrically driven pendulums with	17/10	. Oscillators with torsion strips or springs acting
	mechanical pulse transmission and constant pulse		in the same manner as torsion strips, e.g. weigl oscillating in a horizontal plane {(electrically
	<u>G04C 3/022</u> ; electrically driven pendulums with		driven torsion pendulum <u>G04C 3/033</u>)}
	mechanical pulse transmission and constant pulse	17/20	• Compensation of mechanisms for stabilising
15/10	G04C 3/045)}	17720	frequency
15/12	• Adjusting (tools therefor G04D 1/02); Restricting	17/22	• for the effect of variations of temperature
	the amplitude of the lever or the like {(adjusting the gear train G04B 35/00)}		{(alloys with small expansion coefficient C210
	• Component parts or constructional details, e.g.		C22C; adjustment of the regulator dependant of
15/1/	• Component parts of constructional details, e.g.		adjustment of the hands G04B 18/028; depend
15/14	construction of the lever or the escape wheel		
15/14	construction of the lever or the escape wheel		on the difference in time with a comparison
15/14	{(assembly and manufacture of the spring		clockwork <u>G04C 11/007</u>)}
15/14		17/222	clockwork <u>G04C 11/007</u>)}. • {with balances (construction of balances
15/14	{(assembly and manufacture of the spring G04B 1/145; assembly and manufacture of components, e.g. pinions, spindles G04B 13/02; lubrication of clockwork bearings G04B 31/008;		clockwork <u>G04C 11/007</u>)} • • {with balances (construction of balances <u>G04B 17/063</u>)}
15/14	{(assembly and manufacture of the spring <u>G04B 1/145</u> ; assembly and manufacture of components, e.g. pinions, spindles <u>G04B 13/02</u> ;	17/222 17/225	clockwork <u>G04C 11/007</u>)}. • {with balances (construction of balances

Regulating mechanisms G04B

17/227	{composition and manufacture of the	Time indica	ting
	material used (composition and manufacture of hairsprings <u>G04B 17/066</u> ; of springs <u>G04B 1/145</u> ; anti-magnetic alloys <u>G04B 43/007</u> ; ferrous alloys <u>C22C</u> ; non-ferrous alloys <u>C22C</u> , <u>B22F</u>)}	19/00	Indicating the time by visual means ({indicating the time optically by electric means <u>G04C 17/00</u> , e.g.} by electric lamps <u>G04C 17/02</u> ; display arrangements in general <u>G09F</u>)
17/24	for the effect of variations of atmospheric pressure	19/02	 Back-gearing arrangements between gear train and hands {(transmissions in general <u>G04B 13/00</u>)}
17/26	• for the effect of variations of the impulses	19/025	• • {for simultaneous indicating on several dials
17/28	• • for the effect of imbalance of the weights, e.g. tourbillon		(indicating means allowing simultaneous indication <u>G04B 19/048</u> ; with several separate dials <u>G04B 19/08</u> ; extra hands for indicating
17/285 17/30	 {Tourbillons or carrousels} . Rotating governors, e.g. centrifugal governors, fan governors (for striking mechanism G04B 21/06 {; 		different local apparent times <u>G04B 19/23</u> ; with several clockworks <u>G04B 37/0083</u>)}
17/32	electrically driven <u>G04C 3/0335</u> }) Component parts or constructional details, e.g.	19/04	 Hands; Discs with a single mark or the like {(moving indicating arrangements which have scales or numbers with stationary hands or reading
17/325	collet, stud {, virole or piton}. {for fastening the hairspring in a fixed position,		means <u>G04B 19/20</u> ; optical projection of the position of the hands <u>G04B 19/34</u>)}
17/04	e.g. using a block}	19/042	 {Construction and manufacture of the hands;
17/34 17/345	for fastening the hairspring onto the balance{Details of the spiral roll}		arrangements for increasing reading accuracy (hands with illumination G04B 19/305;
18/00	Mechanisms for setting frequency {(for stabilising frequency <u>G04B 17/00</u>)}		specially shaped hands, e.g. figures or pictures G04B 45/0061; clockwork in the hands G04B 45/043; invisible drive of the hands
18/003	• {by displacement of devices carried by the		G04B 45/046)}
	pendulum or by adjusting the pendulum length	19/044	• • {Mounting and setting of the hands on the axle}
	(pendulums and suspension <u>G04B 17/02</u> ; self-	19/046	• • {Indicating by means of a disc with a mark
	adjustment of the regulating lever <u>G04B 18/028</u> , <u>G04B 17/22</u> , <u>G04C 11/007</u> ; adjusting the stroke of the pendulum <u>G04B 18/04</u> ; time indicating by		or window (for simultaneous indicating G04B 19/048)}
	acoustic means <u>G04B 21/00</u> ; synchronisation with a standard clock <u>G04C 11/007</u> ; metronome with a variable length <u>G04F 5/027</u>)}	19/048	• • {having the possibility of indicating on more than one scale, e.g. hands with variable length which work on different scales (simultaneous indicating
18/006	• {by adjusting the devices fixed on the balance (construction of the pendulum <u>G04B 17/063</u> ; balancing <u>G04B 17/28</u>)}		on several dials <u>G04B 19/025</u> ; indicating by discs used as hands <u>G04B 19/046</u> ; used as moving scales <u>G04B 19/202</u> ; different indications on
18/02	Regulator {or adjustment} devices; Indexing devices {, e.g. raquettes}	10/06	several scales or dials, e.g. for different local apparent times <u>G04B 19/23</u>)}
18/021	• • {adjusting the indexing device from the outside}	19/06	 Dials ({moving discs <u>G04B 19/20</u>; illuminated dials or hands <u>G04B 19/30</u>;} for time-pieces
18/023	• • {with means for fine adjustment of the indexing device}		without clockwork <u>G04B 49/04</u> {; machines and arrangements for the manufacture of dials or hands
18/025	• • {Fixing of the indexing device}		<u>G04D 3/0048</u> })
18/026	• • {Locking the hair spring in the indexing	19/065	• • {with several parts}
	device, e.g. goupille of the raquette (hairsprings	19/08	Geometrical arrangement of the graduations
	G04B 17/066; locking the mainspring on the axle G04B 1/18)}	19/082	• • • {varying from the normal closed scale}
18/028	Setting the regulator by means coupled to or depending on another device, e.g. by the	19/085	• • • {varying from the normal 12 hour arrangement}
	time indication setting mechanism (automatic adjustment of the pendulum length <u>G04B 17/225</u> , <u>G04B 18/003</u> , <u>G04C 11/007</u> ; automatic adjustment of the regulator for temperature	19/087	 • • {with several separate scales (for indicating the same or different times of the clockwork; indicating devices making several simultaneous indications possible G04B 19/048)}
10/04	compensation <u>G04B 17/22</u> ; automatic adjustment of the regulator dependant on the tension of the mainspring <u>G04B 1/22</u>)}	19/10	 Ornamental shape of the graduations or the surface of the dial; Attachment of the graduations to the dial {(cases for special purposes, e.g. ring or button watches <u>G04B 37/12</u>; indicating means
18/04	Adjusting the beat of the pendulum, balance, or the like, e.g. putting into beat	19/103	with special effects <u>G04B 45/00</u>)} • • {attached or inlaid numbers (attaching
18/06	• by setting the collet or the stud of a hairspring	17,103	of jewels or ornaments <u>G04B 47/042;</u>
18/08	• Component parts or constructional details {(G04B 17/32 takes precedence)}		arrangements for attaching bearing jewels, or the like <u>G04D 3/04</u>)}
		19/106	• • • {Special number markings}
		19/12	Selection of materials for dials or graduations $\{markings\}$

Time indicating G04B

19/14	Fastening the dials to the clock or watch plates	19/24313 {Independent date indicating devices
	{(tools, arrangements and machines for the	activated by hand or by clockwork}
10/17	manufacture of watch plates G04D 3/0048)}	19/2432 {Driving or releasing mechanisms wherein
19/16	Shiftable dials, e.g. indicating alternately from 1 to 12 and from 13 to 24 {(dials with a scale other)	the date indicators are driven or released mechanically by a clockwork movement}
	than the normal 12 hour scale G04B 19/085)}	19/24326 {driven or released stepwise by the
19/163	• • • {numbers which are visible alternately from	clockwork movement}
	1 to 12 and from 13 to 24 on the same dial	19/24333 {driven or released stepwise by an energy
	<u>G04B 19/085</u> }	source which is released at determined
19/166	• • { with rotating scales }	moments by the clockwork movement}
19/18	Graduations on the crystal or glass, on the bezel,	19/2434 {driven or released by their own energy
	or on the rim	source which is released at regular time
19/20	Indicating by numbered bands, drums, discs, or	intervals}
	sheets {(indicating means without numbers or hands	19/24346 {band-shaped (G04B 19/24306 takes
	in general <u>G04B 19/04</u> ; illuminated <u>G04B 19/30</u> ; with optical projection <u>G04B 19/34</u> ; gearwork and	precedence; for electrically driven timepieces G04C 17/0016)}
	linking in general G04B 13/00; electrically driven	19/24353 {Independent date indicating devices
	G04C 19/04; counter mechanisms G06M)	activated by hand or by clockwork}
19/202	• • {by means of turning discs (disc-shaped	19/2436 {Driving or releasing mechanisms wherein
	indicating devices with a reference mark	the date indicators are driven or released
	or a window G04B 19/046; discs driven by	mechanically by a clockwork movement}
	clockwork and producing optical special effects	19/24366 {driven or released stepwise by the
	G04B 45/0007; with inscriptions or drawings driven by a clockwork G04B 45/0023; with	clockwork movement}
	figures or parts of figures driven by clockwork	19/24373 {driven or released stepwise by an energy source which is released at determined
	G04B 45/0038)}	moments by the clockwork movement
19/205	• • {by means of sheets}	19/2438 {driven or released by their own energy
19/207	• • {by means of bands (bands as time indicating	source which is released at regular time
	means with a reference mark or window	intervals}
	<u>G04B 19/04</u>)}	19/24386 { sheet-shaped (<u>G04B 19/24306</u> takes
19/21	• Drums {(drum-shaped or spatial indicating	precedence; flap-shaped for electrically driven
	devices <u>G04B 19/04</u> ; fixed scales or dials <u>G04B 19/06</u> ; scales disposed on a terrestrial	timepieces <u>G04C 17/0033</u>)}
	globe for indicating local times in different places	19/24393 {Driving or releasing mechanisms wherein the date indicators are driven or released
	G04B 19/22; clockwork combined with a lamp	mechanically by a clockwork movement}
	with no functional relationship G04B 47/02)}	19/247 disc-shaped {(G04B 19/24306 takes
19/22	Arrangements for indicating different local apparent	precedence; for electrically driven timepieces
	times; Universal time pieces {(indicating by	<u>G04C 17/0058</u>)}
	means of numbers or signs disposed on moving devices G04B 19/20; illumination of dials or hands	19/25 Devices for setting the date indicators
	G04B 19/30; combination with a terrestial globe in	manually
	general G04B 47/02; electronic time-zone watches	19/253 Driving or releasing mechanisms
	<u>G04G 9/0076</u>)}	19/25306 {Independent date indicating devices
19/221	• • {mechanisms for correcting the hours hand only,	activated by hand or by clockwork, e.g. calendar watches}
	i.e. independently for minutes and seconds hands}	19/25313 {driven or released by a steady
19/223	• • {with rotary disc, rotary bezel, or rotary dial}	movement}
19/225	• • • {driving mechanism for the bezel}	19/2532 {automatically corrected at the end of
19/226	• (three-dimensionally shaped, e.g. terrestrial	mounths having less than 31 days}
19/228	globes, cylinders and the like} • {with linear time graduation}	19/25326 (manually corrected at the end of
19/228	 • {with linear time graduation} • by means of additional hands or additional pairs 	months having less than 31 days}
19/23	of hands {(simultaneous indication on several	19/25333 {wherein the date indicators are driven
	dials <u>G04B 19/025</u> ; indicating devices giving	or released mechanically by a clockwork movement}
	several simultaneous indications <u>G04B 19/048</u>)}	19/2534 {driven or released continuously by the
19/235	• • { mechanisms for correcting the additional hand	clockwork movement}
	or hands (time setting G04B 27/00)}	19/25346 {manually corrected at the end of
19/24	• Clocks or watches with date {or week-day}	months having less than 31 days}
	indicators {, i.e. calendar clocks or watches}; Clockwork calendars	19/25353 {driven or released stepwise by the
19/241	the date is indicated by one or more hands}	clockwork movement}
19/241	 the date is indicated by one of more hands? characterised by the shape of the date indicator 	19/2536 {automatically corrected at the end of
19/24306	• • Combination of different shapes, e.g. bands	months having less than 31 days}
-2.2.000	and discs, discs and drums (for electrically	19/25366 {manually corrected at the end of months having less than 31 days}
	driven timepieces G04C 17/0041)}	months having less than 31 days}

Time indicating G04B

19/25373 19/2538 19/25386 19/25393 19/257	 {driven or released stepwise by an energy source which is released at determined moments by the clockwork movement} {automatically corrected at the end of months having less than 31 days} {manually corrected at the end of months having less than 31 days} {driven or released by their own energy source which is released at regular time intervals} drum-shaped {or three-dimensional shaped (G04B 19/24306 takes precedence; for electrically driven timepieces G04C 17/0083)} 	19/32 19/34	 by luminescent substances {(disc or drum shaped indicating means with marks or windows G04B 19/04; with numbers or number-marks G04B 19/20; cases for housing the electrical parts G04G 17/00; projection of hands and/ or scales on weighing apparatus G01G 19/00; on measuring instruments G01D 5/262; for advertising G09F 19/18)} Position of the hands projected optically {(for advertising G09F 19/18; indicating by discs or drums with mark or window G04B 19/04, with figures or signs G04B 19/20; illumination of dials or hands G04B 19/30, case for electrical components G04C 3/008; optical projection of a pointer and/
19/2571	{Independent date indicators activated by hand or by clockwork}		or scale for weighing apparatus <u>G01G 23/32</u> ; for measuring instruments <u>G01D 5/262</u>)}
19/2573 19/2575	the date indicators are driven or released mechanically by a clockwork movement driven or released stepwise by the	21/00	Indicating the time by acoustic means (at preselected times <u>G04B 23/00</u> ; by electro-acoustic means <u>G04C 21/04</u> ; {indicating the time by means other than acoustically, or by combined means
19/2576	clockwork movement} {driven or released stepwise by an energy}		G04B 25/00; indicating the time by visual means G04B 19/00, G04C 17/00; acoustic signalling
19/2578	source which is released at determined moments by the clockwork movement} {driven or released by their own energy	21/005	arrangements <u>G08B 3/00</u> }) • {Periodical acoustic signalling arrangements (<u>G04B 21/02</u> takes precedence); (adjustment of
	source which is released at regular time intervals}		the frequencyby setting the length of the pendulum G04B 18/003; metronomes G04F 5/02)}
19/26	• Clocks or watches with indicators for tides, for the phases of the moon, or the like {(planetaria G09B 27/00 - G09B 27/06; arrangements for table reference, e.g. menstrual tables G06C 3/00)}	21/02	• Regular striking mechanisms giving the full hour, half hour or quarter hour {(electrically operating striking mechanism <u>G04C 21/06</u>)}
19/262	• {with indicators for astrological informations}	21/022	• • {with saw mechanism (with electric drive G04C 21/08)}
19/264	• • {with indicators for biological cycles}	21/025	• • {with silent saw action}
19/266	• • {with indicators for tides}	21/027	• • {with locking wheel (electrically driven
19/268	• • {with indicators for the phases of the moon}		G04C 21/10)}
19/28	• Adjustable guide marks or pointers for indicating determined points of time {(inscriptions or pictures	21/04	Hour wheels; Racks or rakes; Snails or similar control mechanisms
19/283	moved by hand G04B 45/003)} • {on rotatable rings, i.e. bezel (for graduations on	21/06	• Details of striking mechanisms, e.g. hammer, fan governor {(escapements in general
19/286	 the bezels G04B 19/18)} • { with locking means to prevent undesired rotations in both directions} 		G04B 15/00; mechanisms for stabilising frequency G04B 17/00; resistance regulators G05D 13/00; mechanical toys A63H)}
19/30	• Illumination of dials or hands {(dials in general G04B 19/06; moving indicating means with numbers or hands, in general G04B 19/20; arrangements for indicating different local apparent times by means of a globe illuminated from inside G04B 19/22; continuous indication of the time by non-electric light sources G04B 25/00, e.g. by	21/08	• Sounding bodies; Whistles; Musical apparatus (with electro-acoustical transmitters G04C 21/00, {G04B 23/08; sounding arrangements in alarm clocks G04B 23/028; cases with arrangements for enhancing sound production G04B 37/0075; carillons and sounding boards G10F 1/08, G04B 1/10, G10D 13/08})
	electric lamps <u>G04C 17/02</u> ; illumination by electric lamps which function at fixed times or periodically	21/10	Releasing or locking the regular stroke, e.g. for silence during the night
19/305	G04C 19/02; illuminated panels G09F 13/00)} • • {the hands carrying the light source (hands and	21/12 21/14	Reiterating watches or clocksWinding-up the striking mechanism by the
17/303	manufacture thereof <u>G04B 19/042</u> ; projection of hands or dials <u>G04B 19/34</u> ; illumination of scales and/or hands on moving scales <u>H03J 1/02</u> ; on compasses <u>G01C 17/24</u> ; on weighing apparatus <u>G01G 23/18</u> ; on measuring instruments <u>G01D 11/28</u>)}	21/14	clockwork; winding up the clockwork by the striking mechanism {(winding up by hand or mechanically G04B 3/00)}

Time indicating G04B

23/00	Arrangements producing acoustic signals at preselected times {(indicating the time by optical means G04B 19/00, G04C 17/00; indicating the time by acoustic means G04B 21/00; indicating the time by means other than acoustic or optical, or by a combination of means G04B 25/00; acoustic time signals produced electrically G04C 21/00; coinfreed alarm clocks G07F 17/0007; acoustic signalling	25/06	• by moving figures, e.g. cuckoo clocks, trumpet clocks {(figures or part of figures set in motion by the clockwork and creating an optical special effect G04B 45/0007; figures or parts of figures not used to indicate time G04B 45/0038; clockworks driving inscriptions or figures G04B 45/0023; time indication by means of plates or bands driven electrically G04C 19/04)}
23/005	means <u>G08B 3/00</u>)} • {by starting up musical boxes or other musical	27/00	Mechanical devices for setting the time indicating means
	recordings (starting up and stopping of phonographs by means of clockwork apparatus <u>G11B 33/06</u>)}	27/001	• {Internal gear therefor, e.g. for setting the second hand or for setting several clockworks}
23/02	 Alarm clocks {(by other means <u>G04B 25/005;</u> waking up by electric lamps <u>G04C 19/02;</u> electrically released alarm signals <u>G04C 21/00;</u> 	27/002	• {The setting apparatus being crown shaped (G04B 27/02 takes precedence)}
23/021	 alarm clocks with electric contacts <u>G04C 23/06</u>)} • {Controls (winding up the alarm; adjusting and indicating the waking time)} 	27/004	• {having several simultaneous functions, e.g. stopping or starting the clockwork or the hands (G04B 27/02 takes precedence)}
23/023	• {Driving, e.g. by springs or common drive with the clockwork; gears; escapements (escapements)	27/005	• {stepwise or on determined values (G04B 27/02 takes precedence)}
	in general <u>G04B 15/00</u> ; regulating means for clockworks in general <u>G04B 17/00</u>)}	27/007	• {otherwise than manually (<u>G04B 27/02</u> takes precedence; oscillator weights in general <u>G04B 5/04</u>)}
23/025	• • {Signal triggering (in alarm clocks which deliver also or only non-acoustic signals G04B 25/005)}	27/008	• {with parts which are put together with the winding parts, but are functionally separate from them}
23/026	 • {Hammer driving; hammers; devices with several hammers or sounding bodies; vibrators} • {Sounding bodies; boxes used as sounding 	27/02	 by making use of the winding means {(winding by hand or mechanically <u>G04B 3/00</u>)}
23/028	cases; fixation on or in the case (sounding bodies G04B 21/08; case enhancing transmission of sound waves G04B 37/0075)}	27/023	• • {changing of the winding position to the setting position and <u>vice versa</u> is done with an independant part of the winding or setting mechanism (G04B 27/045 and G04B 27/065 take
23/03 23/04	 Alarm signal stop arrangements with coarse and fine setting of the preselected 	27/026	precedence; by part of the case G04B 27/086)} • {for several clockworks or pairs of hands and/or
23/06	 times adjustable for several preselected times with automatic stopping of the signal 	27/04	supplementary functions}with clutch wheel {(support and displacement
23/08	 operating on successive days without resetting; operating only once in each 24 hours 		of the winding stem through the case, means for preventing the stem from going too far, fixation G04B 37/06)}
23/10 23/12	 with presignal; with repeated signal; with changeable intensity of sound Alarm watches to be worn in pockets or on the wrist (giving signals by stimulating the skin 	27/045	• • • {Changing the winding position to the setting position and <u>vice versa</u> is done with an independant part of the winding or setting
	G04B 25/04)	27/06	mechanism} with rocking bar {(support and displacement)
25/00	Indicating the time by other means or by combined means (electric or electromechanical indicating G04C {; illumination of dials or hands		of the winding stem through the case, means preventing the stem from going too far, fixation G04B 37/06)}
	G04B 19/30; indicating the time by acoustic means G04B 21/00; arrangements producing acoustic signals at preselected times G04B 23/00; continuously indicating the time optically by electric means	27/065	 Changing the winding position to the setting position and vice versa is done with an independant part of the winding or setting mechanism
	G04C 19/00; producing acoustic time signals by electrical means G04C 21/00; devices for cooking	27/08	• by using parts of the case $\{(winding by using parts of the case G04B 3/08)\}$
25/005	eggs <u>A47J 29/00</u> }) • {in alarm clocks (<u>G04B 25/04</u> takes precedence)}	27/083	• • {which may be used for winding when changed form the normal position}
25/02 25/04	 by feeling; Clocks or watches for blind persons Alarm clocks or watches with devices stimulating the skin {(normal pocket or wrist alarm clocks G04B 23/12)} 	27/086	• • {which, after displacing a supplementary part, may be used for winding (similar devices G04B 27/023; in mechanisms with coupled pinions G04B 27/045; in rocking mechanisms G04B 27/065)}

Frameworks, supports, or arrangements of the clockwork parts in relation to each other, so called "calibers"

29/00	Frameworks
29/02	. Plates; Bridges; Cocks
29/022	• • {Bridges}

29/025 29/027	. {Cocks}. {Materials and manufacturing (alloys, in general C22C)}	35/00	Adjusting the gear train, e.g. the backlash of the arbors, depth of meshing of the gears {(adjusting the escapement G04B 15/12)}
29/04	Connecting or supporting parts	D 4 4 4	
31/00	Bearings; Point suspensions or counter-point	Protection of	the clockwork against damage from the outside
	suspensions; Pivot bearings; Single parts therefor (bearings in general F16C {; manufacture and composition of springs G04B 1/145; suspension of oscillating weights G04B 5/18; suspension of a pendulum G04B 17/02; bearings for electrical	37/000 37/0008 37/0016	Cases {(cases with a special shape G04B 45/0069; ornamentation of the case G04B 47/04; cartridges A45C 11/00 - A45C 11/38)} • {for pocket watches and wrist watches} • {with folding cover or folding bottom (hinge}
	measurement apparatus G01R 1/10, G01R 1/12,		without spring)}
	G01R 11/12, G01R 11/14; inserting jewels A44C 17/04; inserting cutting diamonds B23P 5/00; devices for fixation of bearing jewels, bearing sleeves,	37/0025	• • {with cover or bottom with a spring (savonette) bench watches opening or closing with spring action G04B 37/0463}
31/004	or the like <u>G04D 3/04</u> }) characterised by the material used	37/0033	 {with cover or bottom which can slide or turn (without a spring action)}
31/004	 characterised by the material used Jewel bearings (<u>G04B 31/04</u> takes precedence) 	37/0041	. {the cover or the bottom can slide or turn with a
31/0082	• • • {with jewel hole and cap jewel (shock damping	2,,,,,,	spring action}
31/0085	bearings with jewel hole and cap jewel G04B 31/04)} • • {with cap jewel only}	37/005	 { with cover or protection device which can be completely removed, either by lifting off or by sliding, or by turning (protection covers,
31/0087	• • { with jewel hole only }		protection cases also against humidity)}
31/012	Metallic bearings	37/0058	• • {for shaped watches}
31/0123	 . • { with metallic ball bearings and metallic roller bearings } 	37/0066	• {for wall clocks and balances (feet and stands for clocks <u>G04B 37/1473</u>)}
31/0126	• • {Metallic step-bearings}	37/0075	• {with means to enhance sound transmission
31/016	Plastic bearings		(sonorous means for chimes <u>G04B 21/08</u> ; for alarm
31/02	• Shock-damping bearings {(shock damping in the		clocks <u>G04B 23/028</u> ; clockworks combined with musical devices <u>G04B 47/025</u>)}
24/04	case <u>G04B 37/052</u> , <u>G04B 37/055</u> , <u>G04B 37/0418</u>)}	37/0083	• {for more than one clockwork}
31/04	 with jewel hole and cap jewel {(jewel bearings with jewel hole and cap jewel <u>G04B 31/0082;</u> tools for inserting jewel bearings <u>G04D 3/042</u>)} 	37/0091	• {for clock parts, e.g. for the escapement or the electric motor (protection cases and air tight vacuum means for clockwork parts G04B 37/088)}
31/06	Manufacture or mounting processes	37/02	• Evacuated cases; Cases filled with gas or liquids;
31/08	• Lubrication {(self-lubricated plastic bearings G04B 31/016; lubrication of the escape wheel G04B 15/14; lubrication of synchronous clockworks	37/04	Cases containing substances for absorbing or binding moisture or dust Mounting the clockwork in the case; Shock
	G04C 15/009; lubrication devices and lubricant containers G04D 5/00)}		absorbing mountings
33/00	Calibers {(disposition of components of the	37/0409	 {Fixed mounting relating to wall clocks and pendulums}
20,00	automatic winding mechanism in relation to the clockwork G04B 5/18)}	37/0418	• • {with shock damping means (shock damping bearings <u>G04B 31/02</u> ; protection against shocks
33/02	Circular calibers		with shields <u>G04B 43/002</u>)}
33/04	Non-circular calibers	37/0427	• • {Mountings relative to pocket and wrist watches
33/06	 of extremely flat shape in which the gear train is arranged in different		allowing a rocking movement about a hinge or any other movement (covers and protective
33/08	planes, e.g. parallel or inclined to each other (G04B 33/10 takes precedence {case for special purposes, e.g. button or ring clockworks G04B 37/12})		cases which may be removed completely either by direct removal or by sliding or turning G04B 37/005; ornamentation and interchangeable parts of cases, modifying the external appearance
33/10 33/12	 with seconds hand arranged in the centre of the dial for extremely long running times 	37/0436	of the clockwork <u>G04B 47/046</u>)} {Clockwork movements coming out without
33/14	 for extremely long running times Calibers of which the mainsprings or barrels are 	3170430	springs, for allowing time reading or winding}
33/14	easily removable (mainsprings <u>G04B 1/14</u> ; barrels, arbors <u>G04B 1/16</u> {; normal or mechanical winding <u>G04B 3/00</u> })	37/0445 37/0454	 {Clockwork movements which come out by spring action for time reading and winding} {Free standing watches (montre chevalet)}
33/16	• with arrangements affording protection of the clockwork against damage as a consequence of a rupture of the mainspring {(protection devices against the rupture of the mainspring or its overtension, placed in the spring-drum or fixed on it against rupture if the mainspring is wound too far G04B 1/20)}	37/0463	• • • {Free standing watches where the clockwork, on opening or closing the case, is ejected or returned by spring action, or possibly with a spring for opening or closing the case (cases with spring action cover G04B 37/0025; wrist watches or pocket watches which can be used as free standing watches with the aid of certain parts of the case G04B 37/148)}

37/0472	• • • {Rocking mounting of the clockwork}	37/12	 Cases for special purposes, e.g. watch combined
37/0481	• • {Mountings relative to wall-clockworks and to		with ring, watch combined with button (watch
	pendulums allowing certain movements}		guards or protectors <u>A45C 11/10</u> , <u>A45C 11/12</u> ;
37/049	• • {Mountings for sound-damping}		watches combined with cosmetic powder containers
37/05	Fixed mountings for pocket or wrist watches		A45D 33/30 {; domed dial G04B 19/10; calibers in which the clockwork is disposed on different planes
37/052	• • • {with shock damping means not related to		G04B 33/08; means for fixing watches on items of
	the winding stem (shock damping bearings		clothing G04B 37/1433; cases having means for
2=10==	<u>G04B 31/02</u> ; shock protection <u>G04B 43/002</u>)}		fixing onto a normal bracelet G04B 37/1486; cases
37/055	• • • { with shock damping means including the		giving special affects due to their particular shape
	winding stem (shock damping bearings G04B 31/02; shock protection G04B 43/002)}		G04B 45/0069; watches combined with various
37/057	• • {for shaped watches}		objects and therefore having a specially shaped case
37/057	Forming the passage for the winding stem through		<u>G04B 47/00</u> })
31/00	the case; Divided winding stems {(watertight	37/122	• • {used as a mirror}
	protection means for the winding stem <u>G04B 37/10</u> ;	37/125	• • {allowing note taking (cases with means for
	fixing the knob to the case G04B 37/1466; winding		holding sheets of note-paper G04B 37/127;
	and setting the hands with the winding stem		adjustable guide marks or pointers for indicating
	with clutch wheel G04B 27/04, with rocking bar		determined points of time <u>G04B 19/28</u> ; changeable indicators <u>G04B 45/0092</u>)}
	<u>G04B 27/06</u>)}	37/127	• • {used as containers or cartridges (means for
37/062	• • {Means for preventing the winding stem from	37/127	incorporating a battery in the case <u>G04G 17/00</u>)}
	being pulled out too far}	37/14	• Suspending devices, supports or stands for time-
37/064	• • {by a tirette}	0771	pieces insofar as they form part of the case {(wrist
37/066	• • {Divided stem (tige brisee) (normal winding		watch straps, fastening means therefor A44C 5/00)}
27/069	stems <u>G04B 3/041</u>)}	37/1406	• • {Means for fixing the clockwork pieces on other
37/068	 {Stem passage not being part of the layout of the clockwork} 		objects (possibly on walls)}
37/08	Hermetic sealing of openings, joints, passages	37/1413	{Separable means}
31/00	or slits {(covers or protecting devices which can	37/142	• • • {Means which can be adjusted as a function of
	be directly removed, or by sliding or turning		the clockwork piece}
	G04B 37/005; hermetic sealing of watch or crystal	37/1426	{Means whereby the clockwork piece may
	with special pieces G04B 39/02; hermetically-sealed	27/1422	move with regard to its suspension device}
	electrical switches <u>H01H 23/06</u>)}	37/1433	• • • {Fixation on items of clothing, e.g. with clips (button watches <u>G04B 37/12</u> ; brooches, or the
37/081	• • {Complete encasings for wrist or pocket watches		like A44C 1/00; other similar fixation means,
	also comprising means for hermetic sealing of the		in general $A45F 5/02$)
	winding stem and crown (hermetic sealing of the	37/144	• • • {Fixation on flat support, e.g. on dashboard}
37/082	stem or crown G04B 37/10)}• { without special hermetic sealing pieces }	37/1446	• • {Means for suspending pocket-, or other types
37/082	 {without special hermetic searing pieces} {for shaped watches}		of watches, e.g. on small chains (bracelet fixings
37/084	Complete encasings for wrist or pocket watches		<u>G04B 37/1486</u>)}
377004	without means for hermetic sealing of winding	37/1453	• • • {Construction and manufacture of case crown
	stem or crown}		and clip}
37/085	• • • {without special hermetic sealing pieces}	37/146	• • • {with the case crown and a clip}
37/086	• • • {for shaped watches}	37/1466	• • • {Fixing the case crown onto the case}
37/087	• • {Protection of wrist or pocket watch cases against	37/1473	• • {Supports and feet for supporting the clockwork
	dust}		(cases for standing clockworks in general
37/088	• • {Means affording hermetic sealing inside the	37/148	G04B 37/0066)}
	case, e.g. protective case for the clockwork	37/146	• • • {formed by parts of the case (standing watches by bringing them out of the case or purse
	against dust, the escapement being in a		G04B 37/0463)}
	hermetically sealed case (case for watch pieces	37/1486	• • {Arrangements for fixing to a bracelet (building
	G04B 37/0091; synchronous motor lubrication G04C 15/009)}	27,7270	watches into bracelets (montre marquise)
37/10	• of winding stems {(construction of winding		G04B 37/12; arrangements for hanging pocket- or
37/10	crowns <u>G04B 3/041</u> ; in combination with		other watches on chains G04B 37/1446)}
	hermetic sealing G04B 37/081)}	37/1493	• • • {by means of a feather spring (Barette á
37/103	• • • {by screwing the crown onto the case}		ressort)}
37/106	• • • {of push buttons (winding up by push button	37/16	Fastening the case to the bracelet
	G04B 3/001; crown in the form of push button	37/18	• for pocket or wrist watches
	G04B 3/046; construction of push buttons	27/00	(<u>G04B 37/02</u> - <u>G04B 37/16</u> take precedence)
	<u>G04B 3/048</u>)}	37/20	• with hinged covers or backs
37/11	• of the back cover of pocket or wrist watches	37/22	 Materials or processes of manufacturing pocket watch or wrist watch cases {(machines or tools for
37/113	• • • { without special hermetic sealing pieces }		the manufacture of clockwork cases G04D 3/0064,
37/116	• • • {for shaped watches}		G04D 3/0097, G04D 3/029; decoration or tools
			therefor <u>G04B 45/0076</u>)}
		37/223	• • {metallic cases coated with a nonmetallic layer}
			• •

57/225 . Non-metallic cases} 57/226 . (Conto divate resorts) 57/226 . (Conto divate resorts) 57/226 . (With occillating motion in hauging or standing checkwords seal as initiation of a real pendulum) 57/227 . (With crystals; Fastering or sealing of crystals; Clock glasses 58/0702 . [Iman of glass] 58/0703 . (Ifform a material other than glass) 58/0703 . (With crystals resolution and glass) 58/0703 . (With occillating motion in hauging or standing checkwords seal as initiation of a real pendulum) 58/0703 . (With occillating glass) in gerned ColeB # 27002) 58/0703 . (With occillating motion in hauging or standing checkwords seal as initiation of a real pendulum or chief and sealing plants in gerned ColeB # 27002) 58/0705 . (With occillating motion in hauging or standing checkwords sealing parts of the teleckword, e.g. pendulum or chief and sealing plants of the teleckword, e.g. pendulum or chief and sealing plants of glass of glass plants of glass of glass of glass of glass in gerned ColeB # 27002. 58/0705 . (Configure holding devices for pendulums or chief and plants of glass of glass pendulum or chief and plants of glass of glas				
39/00 Vatch crystals; Fastening or sealing of crystals; Clock glasses 39/002 (made of glass) 39/003 (made of glass) 39/004 (made of glass) 39/005 (more of glass) 39/005 (more of glass) 39/006 (more of glass) 39/006 (more of glass) 39/007 (more of glass) 39/007 (more of glass) 39/007 (more of glass) 39/008 (more of glass) 39/008 (more of glass) 39/009 (more of glass) 39/000 (more of glass) 41/000 (more of glass) 41/000 (more of glass) 41/000 (more of glass) 43/000 (more of glass) 44/000 (more of glass			45/0053	
Watch crystals: Fastening or sealing of crystals: Clock glasses		•	45/0061	
Asyno Watch crystals; Fastening or swaling of crystals; Clock glasses (clock glasses) 39002	37/228	• • • {Wooden cases}	45/0061	
39002 Imade of glass] 39006 . (out of wear resistant material, eg. sapphive) 39006 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material, eg. sapphive) 39008 . (out of wear resistant material decreased of sapphive) 39008 . (out of wear resistant material, eg. sapphive) 41005 . (looking and bodding devices for pendulums, chimes, or the like, for use during transport 41005 . (looking and bodding devices for pendulums, chimes, or the like, for use during transport 41005 . (looking and bodding devices for pendulum only) 43007 . (Looking of holding devices for pendulum only) 43007 . (Component shock) protection arrangements (scheck damping bettings of Stab 21002 shock-dumping in the device of the sapphing of lake (solid 1900) 43005 . (Foroccion against temperature influences) 43007 . (Looking and support CoHB 4.1009) . (Component shock) protection devine transport (child 2000) 43005 . (Foroccion against temperature influences) 43007 . (Light, colour, line, or spot-effects, eg. aesthetic effects (ornamental shaping of disk (solid 1900) 45000 . (Light, colour, line, or spot-effects caused by a part or pretures moved by the clockwork (sheep shaped indicating parts CoHB 1904) 450002 . (Light, colour, line, or spot-effects caused by or on statuoury parts (change of upperature by exchangeable case parts (CHB 4.7004)) 450003 . (Light, colour, line, or spot-effects caused by or on statuoury parts (change of upperature by exchangeable case parts (CHB 4.7004)) 450003 . (Light, colour, line, or spot-effects caused by or on statuoury parts (change of upperature by exchangeable case parts (CHB 4.7004)) 450003 . (Light	39/00			a figure (cases and non moving parts of the
39004 ffrom ameterial other than glass) 39006 with means for magnified reading (combinations with a magnifying glass in general GRBH 37009) 3902 Sealing crystals or glasses (feeding the case and the with a magnifying glass in general GRBH 37009) 39025 without special sealing parts) 39025 Sealing crystals or glasses (feeding the case and the winding sum GRBH 37009) 39025 Without special sealing parts) 41005 (bolding and locking of the pendulum only) 41005 (bolding and locking of the pendulum only) 43000 Protecting clockworks by shields or other means against external influences, e.g., magnetic fields (demagnetising apparatus (2011) 2000) 43002 (Component shook protection arrangements (shock damping bearings (2018) 1,102; shock-damping in the case GrBH 3700; protection of the pendulum or chaine during transport GOB 41000) 43005 (Protecting against temperature influences) 43006 (Protecting against temperature influences) 43007 (Aming parts of GRBH 2000) 43008 (Protecting against temperature influences) 43009 (Protecting against temperature influences) 43000 (Component shook protection arrangements (shock damping bearings (2018) 1,102; shock-damping in the case GrBH 3700; protection of the pendulum or chaine during transport GOB 4 1000) 43005 (Protecting against temperature influences) 43006 (Protecting against temperature influences) 43007 (Protecting against temperature influences) 43007 (Protecting against temperature influences) 44008 (Protecting against temperature influences) 45008 (Protecting against temperature influences) 45009 (Protecting against temperature influences) 45000 (Protecting against emperature influences) 45	30/002	_		
39006 (out of wear resistant material, eg. sapphire) 3908 (with means for magnified reading (combinations with a meanifying glass in general GOBB 47000) 3902 (withous special sealing parts) 4100				
synology and the companied reading (combinations with a magnifying glass in general GOBB 37(00)) 39:022 Sealing crystals or glasses (scaling the case and the winding stem (GOBB 37(08)) 39:025 (without special sealing parts) 41:000 Locking or holding devices for pendulums, chimes, or the like, for use during transport 41:000 Protecting clockworks by shields or other means against external influences, e.g. magnetic fields ((demagnething apparatus (GOBB 37(08)) and (Component shock protection arrangements (shock damping hearings GOBB 31:00; shock-damping in the case GOBB 37:00; shock-damping the arrangements (GOBB 37:00; shock-damping the case GOBB 37:00; shock-da				
with a magnifying glass in general GOHB 4700) 39022				
3902 Sealing crystals or glasses (sealing the case and the winding sem (GMB 3708) 3005 (without special sealing parts) 4100 Locking or holding devices for pendulums, chimes, or tell like, for use during transport 41005 (holding and locking of the pendulum only) 4300 Protecting clockworks by shields or other mean against external influences, e.g. magnetic fields ((demagnetising apparatus GOHB 3100); shock-damping in the case GOHB 3704) protection of the pendulum or chime during transport GOHB 3100); shock-damping in the case GOHB 3704; protection of the pendulum or chime during transport GOHB 3100; shock-damping in the case GOHB 3704; protection of the pendulum or chime during transport GOHB 3100; shock-damping in the case GOHB 3704; protection against external influences, e.g. magnetic fields ((demagnetising doparatus GOHB 3100); shock-damping bearings GOHB 3100; shock-damping in the case GOHB 3704; protection against temperature compensation GOHB 17222; apparatus for antimagnetising GOHD 900; all shock of antimagnetic alloys (antimagnetic alloys with temperature compensation GOHB 17222; apparatus for antimagnetising GOHD 900; all shopped fields GOHB 1900; decoration of the bands GOHB 1904; as a method of maunfacture thereof GOHB 47001; (Decoration and pictures GOHB 3100); (Decoration of the bands GOHB 1902); as a method of maunfacture thereof GOHB 47008; as a met	39/008	· · · · · · · · · · · · · · · · · · ·	45/0060	
winding sem G04B 37(08) 1. (without special sealing parts) 1. (without special sealing parts) 1. (boking or hodding devices for pendulums, chimes, or the like, for use during transport 1. (hodding and locking of the pendulum only) 1. (hodding and locking only)	20/02		43/0009	
41/00 Locking or holding devices for pendulums, chimes, or the like, for use during transport 41/00 1 (Interpretation of the limit of the surface of the sur	39/02			
43/000 Locking or holding devices for pendulums, chimes, or the like, for use during transport (DBI 43/000) Frotecting clockworks by shields or other means against external influences, e.g. magnetic fields (Idemagnetisings goful 81/32), shock-damping in the case Gofth 37/04; protection of the pendulum or chime during transport GMB 41/200; shock-damping in the case Gofth 37/04; protection of the pendulum or chime during transport GMB 41/200; shock-damping in the case Gofth 37/04; protection of the pendulum or chime during transport GMB 41/200; shock-damping in the case Gofth 37/04; protection of the pendulum or chime during transport GMB 41/200; shock-damping in the case Gofth 37/04; protection of the pendulum or chime during transport GMB 41/200; shock-damping in the case Gofth 37/04; protection of the pendulum or chime during transport GMB 41/200; shock-damping in the case Gofth 37/04; protection of the pendulum or chime during temporal to comparation of the hands Gofth 19/04; continued to the case of the continued of the following the strength of indicating means or case in the pendulum or chime during temporal to comparation of the hands Gofth 19/04; continued to the case of the pendulum or chime during temporal to continue during the time. 45/005 (Protection against temperature influences) 45/007 (Changeable parts (cases or clockwork with holders or as holders Gofth 37/027) 45/007 (Interpieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (urnamental shaping of dials Gofth 19/10) 45/007 (Light, colour, line - os pot-effects caused by a ron stationary parts (change of appearance by exchangeable case parts Gofth 87/040) 45/008 (Light, colour, line - os pot-effects caused by or on stationary parts (change of appearance by exchangeable case parts Gofth 87/040) 45/009 (Light, colour, line - os pot-effects caused by or on stationary parts (change of appearance by exchangeable case parts Gofth 87/040) 45/000 (Light, colour, line - os pot-effects caused by or on s	39/025			
43000 Protecting clockworks by shields or other means against external influences, e.g. magnetic fields (clomagnetising GoHB 1910-1900) 43001 - (Component shock protection of the pendulum or chime during transport GoHB 11-00) in the case GoHB 370-19 protection of the pendulum or chime during transport GoHB 11-000; shock-damping in the case GoHB 370-19 protection of the pendulum or chime during transport GoHB 11-000; alloys will temperature compensation GoHB 11-000; alloys in general (222c) 43005 - (Protection against temperature influences) 43006 - (Protection against temperature influences) 43007 - (Antinagnetic alloys cuntimagnetic alloys will temperature compensation GoHB 17-227; apparatus for antinagnetising GoHB 2000: alloys in general (222c) Clocks with unusual features 45002 - Time pieces of which the indicating means or cases provoke special effects, e.g., aesthetic effects (oranamental shaping of dials GoHB 19-10) (Iutorication of clockwork bearings GoHB 31-00); parts or pictures moved by the clockwork (GoHB 18-200) 450005 - (Light, colour, line-, or spot-effects caused by and pictures in general IB44D) (Inguises or parts thereof for indicating the moved by the clockwork (GoHB 19-006; GoHB 19-006				
43/000 Protecting clockworks by shields or other means against external influences, e.g., magnetic fields (demagnetising apparatus GO4D 9/00) (Component shock protection arrangements (shock damping bearings GO4B 31/02; shock-damping in the case GO4B 37/04; protection of the pendulum or chime during transport GO4B 41/00) (Protection against temperature influences) (1 Antimagnetic alloys (milmagnetic alloys with temperature compensation GO4B 17/02); apparatus for antimagnetic alloys in the temperature compensation GO4B 17/02; apparatus for antimagnetics (GO4B 17/02); alloys in general C22C1) (Clocks with unusual features) (Clocks with unusual features) (Clocks or as holders GO4B 37/02)) (Clocks with unusual features) (Clockson from the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials GO4B 19/10; [Inguisted or clockwork special effects, e.g. aesthetic effects (ornamental shaping of dials GO4B 19/10; [Inguisted or clockwork demagnetic or as possible for the case of the control of the case of the c	41/00			mounting therein G04B 47/00)}
43/002 Protecting clockworks by shields or other means against external influences, e.g. magnetic fields (idenagnetising apparatus (aDID 200) 43/002 . [Component shock protection arrangements (shock damping bearings GOB 31/02; shock-damping in the case GOBB 37/04; protection of the pendulum or chine during transpord (GOBB 41/00) 43/005 . [Protection against temperature influences] 43/007 . [Antimagnetic alloys (antimagnetic alloys (antimagnetics) and components of the surface of the temperature componensation (GOBB 17/027; apparatus for antimagnetising GOBD 9:00; alloys in general C22C.) Clocks with = temperature componensation (GOBB 17/027; apparatus for antimagnetising GOBD 9:00; alloys in general 222C.) 45/002 . [Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (orannental shaping of data (GOBB 19:00) 45/007 . [Light., colour., line., or spot-effects caused by parts or pictures moved by the clockwork (GOBB 19:00) 45/007 . [Light., colour., line. or spot-effects caused by parts or pictures moved by the clockwork (GOBB 19:00) 45/008 . [Inscriptions or pictures moved by the clockwork (GOBB 19:00) 45/003 . [Light., colour., line. or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts (GOBB 37:00) 45/003 . [Inscriptions or pictures moved by the clockwork with counter, e.g. for advertising (clocks with abrupt time indication GOBB 19:00). Gobb 19:202: advertising in general GOBB 19:004. GOBB 19:005. GOBB			45/0076	• {Decoration of the case and of parts thereof, e.g.
### A strong a sparse external influences, e.g., emagence fields (demagnetising apparatus GMB 2000) ### A strong a sparatus GMB 2000 ### A strong a sparatus GMB 2000) ### A strong a sparatus GMB 2000 ### A strong a sparatus spar	41/005	 {holding and locking of the pendulum only} 		
against external influences, e.g. magnetic fields (idemagnetising apparatus (GMB 1900) 43/002	43/00	Protecting clockworks by shields or other means		
43/002 - (Component shock protection arrangements (shock damping bearings G0HB 31/02; shock-damping in the case G0HB 37/02; protection of the pendalum or chime during transport G0HB 41/00). 43/005 - [Protection against temperature influences] 43/007 - [Antimagnetic alloys cantinagnetic alloys with temperature compensation G0HB 17/227; apparatus for antimagnetising G0HD 9/00; alloys in general C22C). Clocks with unusual features 45/007 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials G0HB 19/10); [(Ilubrication of clockwork bearings G0HB 31/00); shaped indicating parts G0HB 19/046, G0HB 19/202; figures or parts thereof for indicating the time, moved by the clockwork G0HB 27/04(6)] 45/003 [Ilight, colour, line- or spot-effects caused by or on stationary parts (chapse of apparance by exchangeable case parts G0HB 19/046)] 45/003 [Inscriptions or pictures moved by hand (clockworks with abrupt time indication G0HB 19/202; advertising elements G0HB 19/046, G0HB 19/202				
45/002 • (Component shock protection arrangements (shock damping bearings GOBB 31/02); shock-damping in the case GOBB 37/04; protection of the pendulum or chime during transport GOBB 11/202; and parameters of the pendulum or chime during transport GOBB 11/202; apparatus for antimagnetic alloys (antimagnetic alloys with temperature compensation GOBB 17/222; apparatus for antimagnetising GO4D 9/00; alloys in general C22C) Clocks with musual features 45/002 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials GO4B 19/10) ((flubrication of clockwork bearings GOBB 31/008; special effects and pictures in general Ba44E) 45/003 • (Light, colour, line- or spot-effects caused by parts or pictures moved by the clockwork (diseshaped indicating parts GOBB 19/046; GOBB 19/042; dise-shaped indicating GOBB 13/00; dise-shaped indicating GOBB 13/00; dise-shaped indicating gobbs (GOBB 19/02); and clockworks with abrupt time indication GO4B 13/00; adjustable hands or mechanisms GOBB 19/02; combination of clockwork with abrupt time indication GO4B 13/00; adjustable hands or mechanisms GOBB 19/02; combination of clockwork with abrupt time indication GO4B 13/00; adjustable hands or mechanisms GOBB 19/02; combination of clockwork with abrupt time indication GO4B 19/02; itsee shaped indicating means GO4B 19/044; of the clockwork dise-shaped indicating means GO4B 19/044; of the cloc				
damping bearings GOBB 31/02; shock-damping in the case GOBB 3702; shock-damping the case GOBB 3702; shock-damping in the case GOBB 3702; shock-damping the case GOBB 41/000) 43005	43/002	• {Component shock protection arrangements (shock		
43/005 . [Protection against temperature influences] 43/007 . [Antimagnetic alloys cannimagenetic alloys windimagnetic alloys cannimagnetic alloys cannimagn		damping bearings G04B 31/02; shock-damping in		
43/007 Protection against temperature influences) 43/007 Antimagnetic alloys (antimagnetic alloys with temperature compensation G04B 17/227; apparatus for antimagnetising G04B 19/00; alloys in general C22C) 45/002 (Changeabar stacked to the case or other parts G04B 47/02) 45/000 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials G04B 19/10) ((Iubircation of clockwork bearings G04B 31/08); pears to prictures moved by the clockwork (diseshaped indicating parts G04B 19/046, G04B 19/02); digures or parts thereof for indicating the time, moved by the clockwork (diseshaped indication G04B 13/00; adjustable hands or mechanisms G04B 13/00; disustable hands or mechanisms G04B 13/00; adjustable hands or mechanisms G04B 13/00; disustable hands or mechanisms G04B 13/00; time indicating goarts G04B 17/00; apparts or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 17/00; movable ornaments and decorations G04B 13/00; adjustable hands or mechanisms G04B 13/00; dijustable hands or mechanisms G04B 13/00; dijustable hands or mechanisms G04B 15/00; time indication G04B 13/00; dijustable hands or mechanisms G04B 15/00; more allowed to contain goards (dise-shaped indicating general G09E) (Inscriptions and pictures moved by hand (clockworks with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 13/00; moved by hand (clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 13/00; moved by hand (clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 13/00; moved by hand (clockwork cases for special purposes G04B 35/00; articularly with inscriptions or pictures moved by hand G04B 45/003; with specially shaped cases or parts G04B 45/003; with specia			45/0084	
43/005 . [Protection against temperature influences] 43/007 . [Antimagnetic alloys sanimagnetic alloys suntimagnetic alloys antimagnetic alloys antimagnetic alloys antimagnetic alloys antimagnetis and manufacture thereof GOBB 45/007. [Cocks with unusual features] 45/002 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials GO4B 19/10) [(tubrication of clockwork bearings GO4B 31/008; special effects and pictures in general BB4FD] [45/007] . [Light, colour, line, or spot-effects caused by parts or pictures moved by the clockwork (discshaped indicating parts GO4B 19/046) [04B 12/020; figures or parts thereof for indicating the time, moved by the clockwork (GO4B 25/066) [04B 19/022] [16B 17/022] or on stationary parts (change of appearance by exchangeable case parts GO4B 19/046) [04B 19/022] [16B 17/022] [16B 17/023] [16B 17/023] [16B 17/023] [16B 17/024] [•
temperature compensation G04B 1/2227: apparatus for antimagnetising G04D 9/00; alloys in general C22C) Clocks with unusual features 45/002 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials G04B 19/10 [(flubrication of clockwork bearings G04B 31/08; special effects and pictures in general B44F)] 45/007 (Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (dise-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork (G04B 37/046)] 45/0023 (Inscriptions or pictures moved by the clockwork (dise-shaped landication G04B 13/00; dise-shaped indicating general G09F)] 45/003 (Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; dise-shaped indicating general G09F) (Inscriptions or pictures moved by the clockwork, e.g. for advertising in general G09F) (Inscriptions or pictures moved by hand (clockworks with abrupt time indication G04B 13/00; dise-shaped indicating general G09F) 45/003 (Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; dise-shaped indicating general G09F) 45/003 (Inscriptions or pictures moved by hand (clockworks with abrupt time indication G04B 13/00; dise-shaped indicating general G09F) 45/003 (Inscriptions or pictures moved by hand (clockwork with counter, e.g. for sports results G04B 19/046) (Inscriptions or pictures moved by hand (clockwork with counter, e.g. for sports results G04B 19/046) (Inscriptions and pictures moved by the clockwork with counter, e.g. for sports results G04B 47/041) (Inscriptions or pictures moved by the clockwork with counter, e.g. for sports results G04B 19/046) (Inscriptions or pictures moved by the clockwork with counter, e.g. for advertising (clocks with abrupt time indicating or most data for the force of the fine-time data force force or f				
Asymptote Asym	43/007			decorative parts which are attached to the case or
Clocks with unusual features 45/00 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (comamental shaping of dials GodB 19/108; special effects and pictures in general B44F) 45/007 Time pieces of which the indicating means or cases provoke special effects (comamental shaping of dials GodB 19/108; special effects and pictures in general B44F) 45/007 Time pieces of which the indicating means or cases provoke special effects caused the effects (comamental shaping of dials GodB 19/108; special effects and pictures in general B44F) 45/007 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects, GodB 19/204; flush invisible drive, e.g. with hands attached to a rotating glass disc ((for advertising GoDF 23/00; disc-shaped hands with marks or notches GodB 19/046) (Light, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (GodB 19/202; figures or parts thereof for indicating the time, moved by the clockwork (GodB 19/202; flush indicating parts (close) with abrupt time indication GodB 13/00; dijustable hands or mechanisms (GodB 19/004; disc-shaped indicating elements GodB 19/004; disc-shaped indic				other parts <u>G04B 47/04</u>)}
45/02 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials G04B 19/10) [(Inbircation of clockwork bearings G04B 19/008; special effects and pictures in general B44E)] 45/0007 [Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/046, G04B 19/046)] 45/0015 [Light-, colour-, line- or spot-effects caused by more or not stationary parts (change of appearance by exchangeable case parts G04B 19/046)] 45/0023 [Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; adjustable hands or pendulum (gearwork G04B 19/042)] elements G04B 19/046, G04B 19/020; advertising in general G09F) 45/003 [Inscriptions and pictures moved by hand (clockwork with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/028; combination of clockwork with counter, e.g. for sports results G04B 47/004] 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/000; movable ornaments and decorations G04B 47/004]) 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004]) 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004]) 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004]) 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/000; movable ornaments and decorations G04B 47/004]) 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004]) 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004]) 45/003 [Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004]) 45/003 [Figures or parts thereof moved by the cloc			45/0092	
45/00 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials G04B 19/10 [(Ilubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} 45/0007		<u>C22C</u>)}		
45/00 Time pieces of which the indicating means or cases provoke special effects, e.g. aesthetic effects (ornamental shaping of dials G04B 19/10) [(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44E)] 45/0007	Clocks with u	unusual features	45/02	
45/004 Time pieces with invisible drive, e.g. with hands effects (ornamental shaping of dials G04B 19/100s; special effects and pictures in general B44E) 45/0007				
### attached to a rotating glass disc {(for advertising (OPE 23/00). disc-shaped hands with marks or notches GO4B 19/046. GO4B 31/00; figures or parts thereof for indicating the time indication GO4B 13/06; disc-shaped indicating person or protures moved by the clockwork (disc-shaped indication goals and colockwork (disc-shaped indication goals and colockwork (GO4B 19/046, GO4B 19/020; figures or parts thereof for indicating the time, moved by the clockwork (GO4B 25/06) ### 45/0015 ### 45/0023 ## 45/0023 ### 45/0023 ### 45/004 ### 45/005	45/00		45/04	
Separation of clockwork bearings G04B 31/008; special effects and pictures in general B44FD		or cases provoke special effects, e.g. aesthetic	45/04	• Time bieces with invisible drive, e.g. with hands
45/0007 • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} 45/0015 • {Light-, colour-, line- or spot-effects caused by or on stationary parts (G04B 25/06)} 45/0023 • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09E)} 45/003 • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/041)} 45/003 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046, G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/002) 45/0046 • {with oscillating motion, in pocket- or wrist watches}		affacts (ornamental chaning of dials GOAR 19/10		
45/0007 • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06) 45/0015 • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} 45/0023 • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 19/004; G04B 19/020; advertising in general G09F)} 45/003 • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 19/08; combination of clockwork with counter, e.g. for sports results G04B 47/004)} 45/0038 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004} 45/0038 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004)} 45/0039 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004)} 45/0039 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004)} 45/0039 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004)} 45/0039 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004)} 45/0039 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004)} 45/0039 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004)} 45/0030 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004} 45/0030 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004} 45/0030 • {Figures or parts thereof moved by the clockwork with counter, e.g. for sports results G04B 47/004} 45/0030 • {Figures or parts thereof moved by the clockwork with counter,				attached to a rotating glass disc {(for advertising
parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06) 45/0015 . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046) 45/0023 . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F) 45/003 . {Inscriptions and pictures moved by hand (clockwork with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 13/00; adjustable hands or mechanisms G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 . {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046, G04B 19/202; time indication goals by the clockwork (disc-shaped indicating means G04B 19/046) . {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046, G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/002) . {with oscillating motion, in pocket- or wrist watches}){(lubrication of clockwork bearings G04B 31/008;		attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or
figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06) 45/0015 • {Light, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} 45/0023 • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F) 45/003 • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/001; movable ornaments and decorations G04B 47/044)} 45/003 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 47/006; mormal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • • {with oscillating motion, in pocket- or wrist watches} 45/0046 • • {with oscillating motion, in pocket- or wrist watches} 45/0046 • • {with oscillating for indicating the time, indicating the bands or properties and decorations G04B 47/046}	45/0007){(lubrication of clockwork bearings <u>G04B 31/008;</u> special effects and pictures in general <u>B44F</u>)}	45/043	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)}
45/0015 . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} 45/0023 . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} 45/003 . {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/00; movable ornaments and decorations G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/002} 45/0046 {with oscillating motion, in pocket- or wrist watches}	45/0007){(lubrication of clockwork bearings <u>G04B 31/008;</u> special effects and pictures in general <u>B44F</u>)} . {Light-, colour-, line-, or spot-effects caused by	45/043	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands
45/0015 . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} 45/0023 . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F) 45/003 . {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 . {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 47/044)} 45/0038 . {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 47/044)} 45/0040 . {with oscillating motion, in pocket- or wrist watches} 45/0041 . {with oscillating motion, in pocket- or wrist watches}	45/0007){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} . {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; 	45/043	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands
45/0023 • (Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} 45/003 • (Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} 45/003 • (Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 • (Figures or parts thereof moved by the clockwork (disc-shaped indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/022) 45/0046 • (with oscillating motion, in pocket- or wrist watches) 45/0046 • (with oscillating motion, in pocket- or wrist watches)	45/0007){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, 		attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)}
exchangeable case parts G04B 47/046)} 45/0023){(lubrication of clockwork bearings <u>G04B 31/008</u> ; special effects and pictures in general <u>B44F</u>)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts <u>G04B 19/046</u> , <u>G04B 19/202</u> ; figures or parts thereof for indicating the time, moved by the clockwork <u>G04B 25/06</u>)}		attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being
45/0023 • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} 45/003 • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches}){(lubrication of clockwork bearings <u>G04B 31/008</u> ; special effects and pictures in general <u>B44F</u>)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts <u>G04B 19/046</u> , <u>G04B 19/202</u> ; figures or parts thereof for indicating the time, moved by the clockwork <u>G04B 25/06</u>)} • {Light-, colour-, line- or spot-effects caused by		attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding
e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F) 45/003 • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches}){(lubrication of clockwork bearings <u>G04B 31/008</u> ; special effects and pictures in general <u>B44F</u>)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts <u>G04B 19/046</u> , <u>G04B 19/202</u> ; figures or parts thereof for indicating the time, moved by the clockwork <u>G04B 25/06</u>)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by		attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding
indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} 45/003	45/0015){(lubrication of clockwork bearings <u>G04B 31/008</u> ; special effects and pictures in general <u>B44F</u>)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts <u>G04B 19/046</u> , <u>G04B 19/202</u> ; figures or parts thereof for indicating the time, moved by the clockwork <u>G04B 25/06</u>)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts <u>G04B 47/046</u>)}	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which
elements G04B 19/046, G04B 19/202; advertising in general G09F)} 45/003	45/0015){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork,	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-
45/003 • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/009; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)}	45/0015){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for
45/0036 • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} • {Inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)}	45/0015){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying
45/0036 (Clockworks with abript time indication) G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 (Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 (with oscillating motion, in pocket- or wrist watches) inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) 47/001 (Mounting or fixing to the steering wheel of a vehicle) 47/003 (Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)	45/0015){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} . {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising 	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in
with specially shaped cases or parts G04B 45/0069; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 45/0038 • Frigures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)}	45/0015 45/0023){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} . {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} . {Inscriptions and pictures moved by hand 	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g.
 45/0038 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} 45/0046 • {with oscillating motion of } writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) 47/001 • {Mounting or fixing to the steering wheel of a vehicle} 47/003 • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)} 	45/0015 45/0023){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with
devices for indicating time <u>B43K 29/087</u> ; combined with cameras, projectors, or photographic printing apparatus <u>G03B 29/00</u>) 45/0038 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means <u>G04B 19/046</u> . <u>G04B 19/202</u> ; time indicating by moving figures <u>G04B 25/06</u> ; normal moving parts of the clockwork visible through a window, e.g. the escapement <u>G04B 45/02</u>)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} devices for indicating time <u>B43K 29/087</u> ; combined with cameras, projectors, or photographic printing apparatus <u>G03B 29/00</u>) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks <u>G04B 19/24</u>)}	45/0015 45/0023){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003,
 45/0038 • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} 45/0046 • {with cameras, projectors, or photographic printing apparatus G03B 29/00} • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)} 	45/0015 45/0023){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069;
(disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} 47/003 47/003 • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)}	45/0015 45/0023){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} . {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} . {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable 	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with
 G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} Vehicle (Mounting or fixing to the steering wheel of a vehicle) (Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)} 	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} . {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} . {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} 	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing
G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {with oscillating motion, in pocket- or wrist watches} 47/003 • {with oscillating motion, in pocket- or wrist watches}	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} • {Figures or parts thereof moved by the clockwork	45/046	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00)
visible through a window, e.g. the escapement G04B 45/02)} 45/0046 • {Wounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)}	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046.	45/046 47/00	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a
45/0046 • {with oscillating motion, in pocket- or wrist watches} indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)}	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures	45/046 47/00 47/001	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle}
watches} clocks G04B 19/24)}	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement	45/046 47/00 47/001	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable}
watches?	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} • {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} • {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} • {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} • {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} • {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)}	45/046 47/00 47/001	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means
(combined with a key)	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} . {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} . {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} . {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} . {with oscillating motion, in pocket- or wrist 	45/046 47/00 47/001	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • { the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • { the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar
	45/0015 45/0023 45/003){(lubrication of clockwork bearings G04B 31/008; special effects and pictures in general B44F)} . {Light-, colour-, line-, or spot-effects caused by parts or pictures moved by the clockwork (disc-shaped indicating parts G04B 19/046, G04B 19/202; figures or parts thereof for indicating the time, moved by the clockwork G04B 25/06)} . {Light-, colour-, line- or spot-effects caused by or on stationary parts (change of appearance by exchangeable case parts G04B 47/046)} . {Inscriptions or pictures moved by the clockwork, e.g. for advertising (clocks with abrupt time indication G04B 13/00; disc-shaped indicating elements G04B 19/046, G04B 19/202; advertising in general G09F)} . {Inscriptions and pictures moved by hand (clockworks with abrupt time indication G04B 13/00; adjustable hands or mechanisms G04B 19/28; combination of clockwork with counter, e.g. for sports results G04B 47/00; movable ornaments and decorations G04B 47/044)} . {Figures or parts thereof moved by the clockwork (disc-shaped indicating means G04B 19/046. G04B 19/202; time indicating by moving figures G04B 25/06; normal moving parts of the clockwork visible through a window, e.g. the escapement G04B 45/02)} . {with oscillating motion, in pocket- or wrist 	45/046 47/00 47/001 47/003	attached to a rotating glass disc {(for advertising G09F 23/00; disc-shaped hands with marks or notches G04B 19/046)} • {the clockwork being positioned in the hands or pendulum (gearwork G04B 1/00; pendulums G04B 17/02; construction of the hands G04B 19/042)} • {the driving mechanism of the hands being invisible because of special shielding (construction of the hands G04B 19/042)} Time-pieces combined with other articles which do not interfere with the running or the time-keeping of the time-piece ({clockwork cases for special purposes G04B 37/12; clocks with magnifying glass built in the face G04B 39/00; time-pieces in which parts or cases produce special effects, e.g. aesthetic effects, G04B 45/00, particularly with inscriptions or pictures moved by hand G04B 45/003, with specially shaped cases or parts G04B 45/0069; combination of} writing or drawing implements with devices for indicating time B43K 29/087; combined with cameras, projectors, or photographic printing apparatus G03B 29/00) • {Mounting or fixing to the steering wheel of a vehicle} • {Mounting in and combined with adjustable indicating means, e.g. date indicating means adjustable by hand, marks or counters (calendar clocks G04B 19/24)}

Clocks with unusual features G04B

47/006 • {combined with a lighter} 47/008 • {combined with a thermometer} 47/02 • Installations within mirrors, pictures, furniture or other household articles {(clock-lamps, globeclocks with a fixed dial, G04B 19/04; clock in the form of a lamp with a dial mounted upon it, moved by the clockwork G04B 19/21; clockwork in the form of a globe for indicating different local apparent times G04B 19/22; illumination of the dial and the hands G04B 19/30; clocklamps with the lamp switched on and off by the clockwork mechanism G04C 19/02, within keys G04B 47/005, within lighters G04B 47/006, within pens <u>B43K 29/087</u>)} 47/025 . . {in musical instruments or loudspeakers (sounding bodies with chimes G04B 21/08; in alarm clocks G04B 23/028; cases with arrangements for enhancing the sound production G04B 37/0075)} 47/04 . with attached ornaments or amusement apparatus {(decorated cases see G04B 45/00)} 47/042 • • {Fastening of jewels and the like (set on or into numbers G04B 19/103; jewel bearings G04B 31/008; setting of jewels and tools therefor A44C; devices for setting jewel bearings G04D 3/04)} 47/044 . . {Movable decorations and parts thereof (inscriptions and pictures moved by hand G04B 45/003)} 47/046 {Changeable decorations and parts thereof, decorations for the case which change the external appearance of the clockwork (clip-on -, sliding - or tilting protective lids or covers G04B 37/005; with a clockwork which can be mounted on different cases for changing its external appearance G04B 37/0427; clockworks which can be mounted in different cases for changing their purpose G04B 37/14; decoration of the case or parts thereof G04B 45/0076; changeable pictures or inscriptions <u>G04B 45/0092</u>)} 47/048 . . {Clockwork combined with toys (devices for teaching clock reading G09B 19/12; indicating play time <u>G07C 1/28</u>)} 47/06 . with attached measuring instruments, e.g. pedometer, barometer, thermometer or compass {(in combination with a tachometer which winds up the clockwork G04B 5/206)} 47/061 • • {calculating scales for indicating relationship between quantity and time (indicating or recording of quantity-time ratios G01D; meters for measuring average speed, measuring speed by chronograph G01P; slide rules and calculating wheels G06G) 47/063 . . {measuring physiological quantities, e.g. pedometers, heart-rate sensors, blood pressure gauges and the like} 47/065 {with a compass (compasses G01C 17/00)} 47/066 • • {with a pressure sensor} 47/068 • • {with a thermometer} 49/00 Time-pieces using the position of the sun, moon or stars {(devices for fixing the place and time by astronomical observations G01C 21/00)}

• Sundials {(normal dials G04B 19/06)}

49/02

49/04 . . Graduation or shaping of dials

99/00 Subject matter not provided for in other groups of this subclass