

CPC COOPERATIVE PATENT CLASSIFICATION

G07C **TIME OR ATTENDANCE REGISTERS; REGISTERING OR INDICATING THE WORKING OF MACHINES; GENERATING RANDOM NUMBERS; VOTING OR LOTTERY APPARATUS; ARRANGEMENTS, SYSTEMS OR APPARATUS FOR CHECKING NOT PROVIDED FOR ELSEWHERE** (identification of persons [A61B 5/117](#); indicating or recording apparatus for measuring in general, analogous apparatus but in which the input is not a variable to be measured, e.g. a hand operation, [G01D](#); clocks, clock mechanisms [G04B](#), [G04C](#); time-interval measuring [G04F](#); counting mechanisms per se [G06M](#))

1/00	Registering, indicating or recording the time of events or elapsed time, e.g. time-recorders for work people (registering or indicating the working of machines or vehicles G07C 3/00 , G07C 5/00)	3/04	. . using counting means or digital clocks
		3/045	. . . {Mechanical counters or clocks}
		3/06	. . in graphical form
		3/08	. Registering or indicating the production of the machine either with or without registering working or idle time
	NOTE		
	Subgroups G07C 1/20 - G07C 1/32 take precedence over subgroups G07C 1/02 - G07C 1/18	3/10	. . using counting means (counting mechanisms per se G06M)
		3/12	. . in graphical form
1/02	. not involving the registering, indicating or recording of other data	3/14	. Quality control systems
1/04	. . wherein the time is indicated in figures	3/143	. . {Finished product quality control}
1/06	. . . with apparatus adapted for use with individual cards	3/146	. . {during manufacturing process}
1/08	. . wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time	5/00	Registering or indicating the working of vehicles (for measuring distance travelled or combinations of speed and distance G01C ; engine indicators G01L ; devices for measuring speed or acceleration G01P)
1/10	. together with the recording, indicating or registering of other data, e.g. of signs of identity (together with the recording of a continuously-varying variable G01D or the appropriate other subclass of G01 , dependent on the variable)	5/002	. {Analysing tachograph charts (arrangements for graph-reading in general G06K 11/00)}
1/12	. . wherein the time is indicated in figures	5/004	. {Indicating the operating range of the engine (economical driving B60R 16/0236 , F02B 77/084 ; measuring liquid fuel of an engine G01F 9/00)}
1/14	. . . with apparatus adapted for use with individual cards	5/006	. {Indicating maintenance}
1/16	. . wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time	5/008	. {communicating information to a remotely located station (transmission systems for measured values G08C)}
1/18	. . . with apparatus adapted for use with individual cards	5/02	. Registering or indicating driving, working, idle, or waiting time only (apparatus forming part of taximeters G07B)
1/20	. Checking timed patrols, e.g. of watchman	5/04	. . using counting means or digital clocks
1/22	. in connection with sports or games	5/06	. . in graphical form
1/24	. . Race time-recorders (race-finish cameras G03B 41/00)	5/08	. Registering or indicating performance data other than driving, working, idle, or waiting time, with or without registering driving, working, idle or waiting time
1/26	. . Pigeon-timing or like equipment	5/0808	. . {Diagnosing performance data (testing of vehicles G01M 17/00 ; testing of electrical installation on vehicles G01R 31/005)}
1/28	. . Indicating playing time	5/0816	. . {Indicating performance data, e.g. occurrence of a malfunction}
1/30	. Parking meters (registering or indicating waiting time of vehicles by means driven by the vehicle G07C 5/02 ; coin-freed parking meters G07F 17/24)	5/0825	. . . {using optical means}
1/32	. Time-recording locks (locks giving indication of unauthorised unlocking E05B 39/00)	5/0833	. . . {using audio means}
3/00	Registering or indicating the condition or the working of machines or other apparatus, other than vehicles (engine indicators G01L ; testing apparatus incident to its manufacture G01M ; signalling arrangements per se, indicating undesired or abnormal working conditions G08B)	5/0841	. . {Registering performance data (recording measured values G01D ; information storage G11B)}
3/005	. {during manufacturing process}	5/085	. . . {using electronic data carriers}
3/02	. Registering or indicating working or idle time only	5/0858	. . . . {wherein the data carrier is removable}
		5/0866	. . . . {the electronic data carrier being a digital video recorder in combination with video camera}

- 5/0875 . . . {using magnetic data carriers}
- 5/0883 {wherein the data carrier is removable}
- 5/0891 {Video recorder in combination with video camera}
- 5/10 . . using counting means or digital clocks
- 5/12 . . in graphical form

7/00 Details or accessories common to the registering or indicating apparatus of groups [G07C 3/00](#) and [G07C 5/00](#)

9/00 Individual entry or exit registers

NOTES

1. This group covers:
 - controlling and registering access of persons to restricted areas or devices
2. This group does not cover:
 - electric permutation locks using mechanical keys, covered by [E05B 49/00](#);
 - apparatus actuated by coded identity cards or credit cards, to free or actuate vending, hiring or money-dispensing, covered by [G07F 7/08](#);
 - access to facilities or services by means of coins or tokens, covered by [G07F 17/00](#);
 - arrangements actuated by coded cards for dispensing or receiving money and posting such transactions to existing accounts, e.g. automatic teller machines, covered by [G07F 19/00](#)
3. Attention is drawn to the following places, which may be of interest for search:
 - [G06K 7/00](#), [G06K 19/00](#) arrangements for sensing or reading record carriers
 - [H03K 17/00](#) electronic switching
 - [G06K 9/00](#) biometric sensors, recognising biometric patterns
 - [A61B 5/117](#) biometric identification used for diagnostic purposes
 - [G06F 1/00](#) access to data processing equipment

- 9/00007 . {Access-control involving the use of a pass (for electromagnetical or electronical keys and locks, see [E05B 49/00](#))}
- 9/00015 . . {the pass having a variable code, e.g. varied by the controlling system ([G07C 9/00103](#) takes precedence)}
- 9/00023 . . {the system having a variable access-code, e.g. varied as a function of time}
- 9/00031 . . {in combination with an identity-check of the pass-holder (recognizing patterns, e.g. fingerprints or signatures [G06K 9/00](#))}
- 9/00039 . . . {by means of a pass-word ([G07F 7/00](#) takes precedence)}
- 9/00047 . . . {by means of the handwritten signature of the pass-holder}
- 9/00055 {visually, e.g. by comparing in a viewer the written signature with a reference on the pass}
- 9/00063 {electronically, e.g. by comparing signal of hand-writing with a reference signal from the pass}

- 9/00071 . . . {by means of personal physical data, e.g. characteristic facial curves, hand geometry, voice spectrum, fingerprints ([measuring or recording devices for testing the shape, pattern, size or movement of the body or parts thereof per se \[A61B 5/103\]\(#\)](#))}
- 9/00079 {visually}
- 9/00087 {electronically}
- 2009/00095 {comprising a biometric sensor on the pass}
- 9/00103 . . {with central registration and control, e.g. for swimming pools or hotel-rooms, generally in combination with a pass-dispensing system}
- 9/00111 . . {the pass performing a presence indicating function, e.g. identification tag or transponder ([identification by using radar means \[G01S 13/02\]\(#\), \[G01S 13/74\]\(#\); detecting presence by using magnetic or electric fields produced or modified by objects in general \[G01V 3/08\]\(#\), \[G01V 3/165\]\(#\); means for indicating the location of accidentally buried persons \[A63B 29/02\]\(#\)](#))}
- 9/00119 . . {the pass containing active electronic elements (active credit cards [G07F 7/08](#); record carriers characterised by digital working [G06K 19/06](#))}
- 9/00126 . {Access control not involving the use of a pass (permutation locks [E05B 49/00](#); access to facilities or services by means of coins or tokens [G07F 17/00](#))}
- 9/00134 . . {in combination with an identity-check}
- 9/00142 . . . {by means of a pass-word}
- 9/0015 . . . {by means of a handwritten signature}
- 9/00158 . . . {by means of a personal physical data}
- 9/00166 . . {with central registration and control}
- 9/00174 . {Electronically operated locks; Circuits therefor; Nonmechanical keys therefor, e.g. passive or active electrical keys or other data carriers without mechanical keys ([mechanical locks with electric permutation \[E05B 49/00\]\(#\)](#); arrangements for sensing or reading record carriers [G06K 7/00](#), [G06K 9/00](#); electronic switching [H03K 17/00](#))}
- 9/00182 . . {operated with unidirectional data transmission between data carrier and locks}
- 2009/0019 . . . {the keyless data carrier having only one limited data transmission ranges}
- 2009/00198 . . . {the keyless data carrier having more than one limited data transmission ranges}
- 2009/00206 . . . {the keyless data carrier being hand operated}
- 2009/00214 {by one push button}
- 2009/00222 {by more than one push button}
- 2009/0023 . . . {with encryption of the transmitted data signal}
- 2009/00238 . . . {the transmitted data signal containing a code which is changed}
- 2009/00246 {periodically, e.g. after a time period}
- 2009/00253 {dynamically, e.g. variable code - rolling code}
- 2009/00261 . . . {the keyless data carrier having more than one function}
- 2009/00269 {opening and locking of all locks at the same time}
- 2009/00277 {opening of different locks separately}
- 2009/00285 {immobilizer}
- 2009/00293 {anti-theft}
- 2009/00301 {starting ignition}

9/00309	. . . {operated with bidirectional data transmission between data carrier and locks}	9/00682	. . . . {actuated repeatedly}
2009/00317	. . . {keyless data carrier having only one limited data transmission range}	9/0069	. . . . {actuated in a predetermined sequence}
2009/00325	. . . . {and the lock having only one limited data transmission range}	9/00698	. . . . {actuated in function of displayed informations}
2009/00333	. . . . {and the lock having more than one limited data transmission ranges}	9/00706	. . . {with conductive components, e.g. pins, wires, metallic strips}
2009/00341	. . . {keyless data carrier having more than one limited data transmission ranges}	9/00714	. . . {with passive electrical components, e.g. resistor, capacitor, inductor}
2009/00349	. . . . {and the lock having only one limited data transmission range}	9/00722	. . . {with magnetic components, e.g. magnets, magnetic strips, metallic inserts (mechanical locks operated by permanent magnets E05B 47/0038)}
2009/00357	. . . . {and the lock having more than one limited data transmission ranges}	9/0073	. . . . {actuating magnetically controlled switches, e.g. reed relays}
2009/00365	. . . {in combination with a wake-up circuit}	9/00738	. . . . {sensed by Hall effect devices}
2009/00373	. . . . {whereby the wake-up circuit is situated in the lock}	2009/00746	. . . {by knocking on a surface for inputting the code, e.g. detecting a series of taps on a surface}
2009/0038	. . . . {whereby the wake-up circuit is situated in the keyless data carrier}	2009/00753	. . {operated by active electrical keys}
2009/00388	. . . {code verification carried out according to the challenge/response method}	2009/00761	. . . {with data transmission performed by connected means, e.g. mechanical contacts, plugs, connectors}
2009/00396	. . . . {starting with prompting the keyless data carrier}	2009/00769	. . . {with data transmission performed by wireless means}
2009/00404	. . . . {starting with prompting the lock}	2009/00777	. . . . {by induction}
2009/00412	. . . {the transmitted data signal being encrypted}	2009/00785	. . . . {by light}
2009/0042	. . . {the transmitted data signal containing a code which is changed}	2009/00793	. . . . {by Hertzian waves}
2009/00428	. . . . {periodically after a time period}	2009/00801	. . . . {by acoustic waves}
2009/00436	. . . . . {by the system}	2009/00809	. . . {with data transmission through the human body}
2009/00444	. . . . . {by the key}	9/00817	. . {where the code of the lock can be programmed}
2009/00452	. . . . . {by the lock}	2009/00825	. . . {remotely by lines or wireless communication}
2009/0046	. . . . . {randomly}	2009/00833	. . . {by code input from switches}
2009/00468	. . . . . {after n uses}	2009/00841	. . . {by a portable device}
2009/00476	. . . . . {dynamically}	2009/00849	. . . {programming by learning}
2009/00484	. . . . . {whereby the code is a variable code}	9/00857	. . {where the code of the data carrier can be programmed}
2009/00492	. . . . . {whereby the code is a rolling code}	2009/00865	. . . {remotely by wireless communication}
2009/005	. . . . . {whereby the code is a random code}	2009/00873	. . . {by code input from the lock}
2009/00507	. . . {keyless data carrier having more than one function}	2009/0088	. . . {centrally}
2009/00515	. . . . {opening and locking of all locks at the same time}	2009/00888	. . . {programming by learning}
2009/00523	. . . . {opening of different locks separately}	9/00896	. . {specially adapted for particular uses}
2009/00531	. . . . {immobilizer}	9/00904	. . . {for hotels, motels, office buildings or the like}
2009/00539	. . . . {anti-theft}	9/00912	. . . {for safes, strong-rooms, vaults or the like}
2009/00547	. . . . {starting ignition}	2009/0092	. . . {for cargo, freight or shipping containers and applications therefore in general}
2009/00555	. . . {comprising means to detect or avoid relay attacks}	2009/00928	. . . {for garage doors}
9/00563	. . {using personal physical data of the operator, e.g. finger prints, retinal images, voicepatterns}	2009/00936	. . . {for key cabinets}
9/00571	. . {operated by interacting with a central unit}	9/00944	. . {Details of construction or manufacture}
2009/00579	. . {Power supply for the keyless data carrier}	2009/00952	. . . {Electronic keys comprising a mechanical key within their housing, e.g. extractable or retractable emergency key}
2009/00587	. . . {by battery}	2009/0096	. . . {Electronic keys comprising a non-biometric sensor}
2009/00595	. . . {by solar energy}	2009/00968	. . {shape of the data carrier}
2009/00603	. . . {by power transmission from lock}	2009/00976	. . . {card}
2009/00611	. . . . {by using inductive transmission}	2009/00984	. . . {fob}
2009/00619	. . . . {by using capacitive transmission}	2009/00992	. . . {mechanical key}
2009/00626	. . . . {by using optical transmission}	9/02	. Turnstiles with registering means (turnstiles per se E04H ; coin-free aspects G07F)
2009/00634	. . {Power supply for the lock}	9/025	. . {with arrangements to prevent the passage of more than one person at a time, e.g. with fotocell-barrier}
2009/00642	. . . {by battery}		
2009/0065	. . . {by solar energy}		
9/00658	. . {operated by passive electrical keys}		
9/00666	. . . {with dials}		
9/00674	. . . {with switch-buttons}		

- 11/00 Arrangements, systems, or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere** ([signalling or alarm arrangements G08B](#))
- 2011/02 . {related to amusement parks}
 - 2011/04 . {related to queuing systems}
- 13/00 Voting apparatus**
- 13/005 . {operating mechanically}
 - 13/02 . Ballot boxes
- 15/00 Generating random numbers; Lottery apparatus** ([games in general A63F](#); digital computer arrangements for generating random or pseudo-random numbers [G06F 7/58](#); generating electric pulses at random intervals [H03K 3/84](#))
- 15/001 . {with balls or the like}
 - 15/003 . . {hand-held}
 - 15/005 . {with dispensing of lottery tickets}
 - 15/006 . {electronically}
 - 15/008 . . {electronic dies}
- 2205/00 Indexing scheme relating to group [G07C 5/00](#)**
- 2205/02 . using a vehicle scan tool
- 2209/00 Indexing scheme relating to groups [G07C 9/00](#) - [G07C 9/02](#)**
- 2209/02 . Access control comprising means for the enrolment of users
 - 2209/04 . Access control involving a hierarchy in access rights
 - 2209/06 . Involving synchronization or resynchronization between transmitter and receiver; reordering of codes
 - 2209/08 . With time considerations, e.g. temporary activation, valid time window or time limitations
 - 2209/10 . Comprising means for protocol conversion, i.e. format conversion
 - 2209/12 . Comprising means for protecting or securing the privacy of biometric data, e.g. cancellable biometrics
 - 2209/14 . With a sequence of inputs of different identification information
 - 2209/40 . Indexing scheme relating to group [G07C 9/00007](#) - [G07C 9/00119](#)
 - 2209/41 . . with means for the generation of identity documents
 - 2209/60 . Indexing scheme relating to groups [G07C 9/00174](#) - [G07C 9/00944](#)
 - 2209/61 . . Signal comprising different frequencies, e.g. frequency hopping
 - 2209/62 . . Comprising means for indicating the status of the lock
 - 2209/63 . . Comprising locating means for detecting the position of the data carrier, i.e. within the vehicle or within a certain distance from the vehicle
 - 2209/64 . . . using a proximity sensor
 - 2209/65 . . . using means for sensing the user's hand