

CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS (NOTES omitted)

INSTRUMENTS

G07 CHECKING-DEVICES

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](#))

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.

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| <p>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)</p> <p><u>NOTE</u></p> <p>Subgroups G07C 1/20 - G07C 1/32 take precedence over subgroups G07C 1/02 - G07C 1/18</p> | <p>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)</p> <p>1/32 . Time-recording locks (locks giving indication of unauthorised unlocking E05B 39/00)</p> |
| <p>1/02 . not involving the registering, indicating or recording of other data</p> <p>1/04 . . wherein the time is indicated in figures</p> <p>1/06 . . . with apparatus adapted for use with individual cards</p> <p>1/08 . . wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time</p> <p>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)</p> <p>1/12 . . wherein the time is indicated in figures</p> <p>1/14 . . . with apparatus adapted for use with individual cards</p> <p>1/16 . . wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time</p> <p>1/18 . . . with apparatus adapted for use with individual cards</p> <p>1/20 . Checking timed patrols, e.g. of watchman</p> <p>1/22 . in connection with sports or games</p> <p>1/24 . . Race time-recorders (race-finish cameras G03B 41/00)</p> <p>1/26 . . Pigeon-timing or like equipment</p> <p>1/28 . . Indicating playing time</p> | <p>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)</p> <p>3/005 . {during manufacturing process}</p> <p>3/02 . Registering or indicating working or idle time only</p> <p>3/04 . . using counting means or digital clocks</p> <p>3/045 . . . {Mechanical counters or clocks}</p> <p>3/06 . . in graphical form</p> <p>3/08 . Registering or indicating the production of the machine either with or without registering working or idle time</p> <p>3/10 . . using counting means (counting mechanisms per se G06M)</p> <p>3/12 . . in graphical form</p> <p>3/14 . Quality control systems</p> <p>3/143 . . {Finished product quality control}</p> <p>3/146 . . {during manufacturing process}</p> <p>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)</p> <p>5/002 . {Analysing tachograph charts (arrangements for graph-reading in general G06K 11/00)}</p> <p>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)}</p> <p>5/006 . {Indicating maintenance}</p> |

- 5/008 . {communicating information to a remotely located station (transmission systems for measured values [G08C](#))}
- 5/02 . Registering or indicating driving, working, idle, or waiting time only (apparatus forming part of taximeters [G07B](#))
- 5/04 . . using counting means or digital clocks
- 5/06 . . in graphical form
- 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
- 5/0808 . . {Diagnosing performance data (testing of vehicles [G01M 17/00](#); testing of electrical installation on vehicles [G01R 31/005](#))}
- 5/0816 . . {Indicating performance data, e.g. occurrence of a malfunction}
- 5/0825 . . . {using optical means}
- 5/0833 . . . {using audio means}
- 5/0841 . . {Registering performance data (recording measured values [G01D](#); information storage [G11B](#))}
- 5/085 . . . {using electronic data carriers}
- 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 registration on entry or exit**
- 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
- 9/00174 . {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}
- 2009/00317 . . . {keyless data carrier having only one limited data transmission range}
- 2009/00325 {and the lock having only one limited data transmission range}
- 2009/00333 {and the lock having more than one limited data transmission ranges}
- 2009/00341 . . . {keyless data carrier having more than one limited data transmission ranges}
- 2009/00349 {and the lock having only one limited data transmission range}
- 2009/00357 {and the lock having more than one limited data transmission ranges}
- 2009/00365 . . . {in combination with a wake-up circuit}
- 2009/00373 {whereby the wake-up circuit is situated in the lock}
- 2009/0038 {whereby the wake-up circuit is situated in the keyless data carrier}
- 2009/00388 . . . {code verification carried out according to the challenge/response method}
- 2009/00396 {starting with prompting the keyless data carrier}
- 2009/00404 {starting with prompting the lock}
- 2009/00412 . . . {the transmitted data signal being encrypted}
- 2009/0042 . . . {the transmitted data signal containing a code which is changed}
- 2009/00428 {periodically after a time period}
- 2009/00436 {by the system}
- 2009/00444 {by the key}
- 2009/00452 {by the lock}
- 2009/0046 {randomly}

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| 2009/00468 | | {after n uses} | 2009/00833 | . . . | {by code input from switches} |
| 2009/00476 | | {dynamically} | 2009/00841 | . . . | {by a portable device} |
| 2009/00484 | | {whereby the code is a variable code} | 2009/00849 | . . . | {programming by learning} |
| 2009/00492 | | {whereby the code is a rolling code} | 9/00857 | . . | {where the code of the data carrier can be programmed} |
| 2009/005 | | {whereby the code is a random code} | 2009/00865 | . . . | {remotely by wireless communication} |
| 2009/00507 | . . . | {keyless data carrier having more than one function} | 2009/00873 | . . . | {by code input from the lock} |
| 2009/00515 | | {opening and locking of all locks at the same time} | 2009/0088 | . . . | {centrally} |
| 2009/00523 | | {opening of different locks separately} | 2009/00888 | . . . | {programming by learning} |
| 2009/00531 | | {immobilizer} | 9/00896 | . . | {specially adapted for particular uses} |
| 2009/00539 | | {anti-theft} | 9/00904 | . . . | {for hotels, motels, office buildings or the like} |
| 2009/00547 | | {starting ignition} | 9/00912 | . . . | {for safes, strong-rooms, vaults or the like} |
| 2009/00555 | . . . | {comprising means to detect or avoid relay attacks} | 2009/0092 | . . . | {for cargo, freight or shipping containers and applications therefore in general} |
| 9/00563 | . . | {using personal physical data of the operator, e.g. finger prints, retinal images, voicepatterns} | 2009/00928 | . . . | {for garage doors} |
| 9/00571 | . . | {operated by interacting with a central unit} | 2009/00936 | . . . | {for key cabinets} |
| 2009/00579 | . . | {Power supply for the keyless data carrier} | 9/00944 | . . | {Details of construction or manufacture} |
| 2009/00587 | . . . | {by battery} | 2009/00952 | . . . | {Electronic keys comprising a mechanical key within their housing, e.g. extractable or retractable emergency key} |
| 2009/00595 | . . . | {by solar energy} | 2009/0096 | . . . | {Electronic keys comprising a non-biometric sensor} |
| 2009/00603 | . . . | {by power transmission from lock} | 2009/00968 | . . | {shape of the data carrier} |
| 2009/00611 | | {by using inductive transmission} | 2009/00976 | . . . | {card} |
| 2009/00619 | | {by using capacitive transmission} | 2009/00984 | . . . | {fob} |
| 2009/00626 | | {by using optical transmission} | 2009/00992 | . . . | {mechanical key} |
| 2009/00634 | . . | {Power supply for the lock} | 9/10 | . . | Movable barriers with registering means |
| 2009/00642 | . . . | {by battery} | 9/15 | . . | with arrangements to prevent the passage of more than one individual at a time |
| 2009/0065 | . . . | {by solar energy} | 9/20 | . . | involving the use of a pass |
| 9/00658 | . . | {operated by passive electrical keys} | 9/21 | . . | having a variable access code |
| 9/00666 | . . . | {with dials} | WARNING Group G07C 9/21 is incomplete pending reclassification of documents from group G07C 9/27 . Groups G07C 9/27 and G07C 9/21 should be considered in order to perform a complete search. | | |
| 9/00674 | . . . | {with switch-buttons} | | | |
| 9/00682 | | {actuated repeatedly} | | | |
| 9/0069 | | {actuated in a predetermined sequence} | | | |
| 9/00698 | | {actuated in function of displayed informations} | | | |
| 9/00706 | . . . | {with conductive components, e.g. pins, wires, metallic strips} | | | |
| 9/00714 | . . . | {with passive electrical components, e.g. resistor, capacitor, inductor} | | | |
| 9/00722 | . . . | {with magnetic components, e.g. magnets, magnetic strips, metallic inserts (mechanical locks operated by permanent magnets E05B 47/0038)} | | | |
| 9/0073 | | {actuating magnetically controlled switches, e.g. reed relays} | | | |
| 9/00738 | | {sensed by Hall effect devices} | | | |
| 2009/00746 | . . . | {by knocking on a surface for inputting the code, e.g. detecting a series of taps on a surface} | 9/215 | . . | {the system having a variable access-code, e.g. varied as a function of time} |
| 2009/00753 | . . | {operated by active electrical keys} | 9/22 | . . | in combination with an identity check of the pass holder |
| 2009/00761 | . . . | {with data transmission performed by connected means, e.g. mechanical contacts, plugs, connectors} | 9/23 | . . . | by means of a password |
| 2009/00769 | . . . | {with data transmission performed by wireless means} | 9/24 | . . . | by means of a handwritten signature |
| 2009/00777 | | {by induction} | 9/243 | | {visually, e.g. by comparing in a viewer the written signature with a reference on the pass} |
| 2009/00785 | | {by light} | 9/247 | | {electronically, e.g. by comparing signal of hand-writing with a reference signal from the pass} |
| 2009/00793 | | {by Hertzian waves} | 9/25 | . . . | using biometric data, e.g. fingerprints, iris scans or voice recognition |
| 2009/00801 | | {by acoustic waves} | 9/253 | | {visually} |
| 2009/00809 | . . . | {with data transmission through the human body} | 9/257 | | {electronically (G07C 9/26 takes precedence)} |
| 9/00817 | . . | {where the code of the lock can be programmed} | 9/26 | | using a biometric sensor integrated in the pass |
| 2009/00825 | . . . | {remotely by lines or wireless communication} | | | |

- 9/27 . . with central registration
 - WARNING**
 - Group [G07C 9/27](#) is impacted by reclassification into group [G07C 9/21](#).
 - Groups [G07C 9/27](#) and [G07C 9/21](#) should be considered in order to perform a complete search.
- 9/28 . . the pass enabling tracking or indicating presence
- 9/29 . . the pass containing active electronic elements, e.g. smartcards
- 9/30 . . not involving the use of a pass
- 9/32 . . in combination with an identity check
- 9/33 . . . by means of a password
- 9/35 . . . by means of a handwritten signature
- 9/37 . . . using biometric data, e.g. fingerprints, iris scans or voice recognition
- 9/38 . . with central registration
- 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 9/38](#)**
- 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 groups [G07C 9/20](#) - [G07C 9/29](#)
- 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