

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

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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|-------|--|--------|---|
| 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 | <ul style="list-style-type: none"> • . using counting means or digital clocks |
| | | 3/045 | <ul style="list-style-type: none"> • . . {Mechanical counters or clocks} |
| | | 3/06 | <ul style="list-style-type: none"> • . in graphical form |
| | | 3/08 | <ul style="list-style-type: none"> • Registering or indicating the production of the machine either with or without registering working or idle time |
| | | 3/10 | <ul style="list-style-type: none"> • . using counting means |
| | | 3/12 | <ul style="list-style-type: none"> • . in graphical form |
| | | 3/14 | <ul style="list-style-type: none"> • Quality control systems |
| | | 3/143 | <ul style="list-style-type: none"> • . {Finished product quality control} |
| | | 3/146 | <ul style="list-style-type: none"> • . {during manufacturing process} |
| | NOTE Subgroups G07C 1/20 - G07C 1/32 take precedence over subgroups G07C 1/02 - G07C 1/18 | | |
| 1/02 | <ul style="list-style-type: none"> • not involving the registering, indicating or recording of other data | | |
| 1/04 | <ul style="list-style-type: none"> • . wherein the time is indicated in figures | | |
| 1/06 | <ul style="list-style-type: none"> • . . with apparatus adapted for use with individual cards | | |
| 1/08 | <ul style="list-style-type: none"> • . wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time | | |
| 1/10 | <ul style="list-style-type: none"> • together with the recording, indicating or registering of other data, e.g. of signs of identity | | |
| 1/12 | <ul style="list-style-type: none"> • . wherein the time is indicated in figures | | |
| 1/14 | <ul style="list-style-type: none"> • . . with apparatus adapted for use with individual cards | | |
| 1/16 | <ul style="list-style-type: none"> • . wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time | | |
| 1/18 | <ul style="list-style-type: none"> • . . with apparatus adapted for use with individual cards | | |
| 1/20 | <ul style="list-style-type: none"> • Checking timed patrols, e.g. of watchman | | |
| 1/22 | <ul style="list-style-type: none"> • in connection with sports or games | | |
| 1/24 | <ul style="list-style-type: none"> • . Race time-recorders | | |
| 1/26 | <ul style="list-style-type: none"> • . Pigeon-timing or like equipment | | |
| 1/28 | <ul style="list-style-type: none"> • . Indicating playing time | | |
| 1/30 | <ul style="list-style-type: none"> • 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) | | |
| 1/32 | <ul style="list-style-type: none"> • Time-recording locks | | |
| 3/00 | Registering or indicating the condition or the working of machines or other apparatus, other than vehicles | | |
| 3/005 | <ul style="list-style-type: none"> • {during manufacturing process} | | |
| 3/02 | <ul style="list-style-type: none"> • Registering or indicating working or idle time only | | |
| | | 5/00 | Registering or indicating the working of vehicles |
| | | 5/002 | <ul style="list-style-type: none"> • {Analysing tachograph charts (arrangements for graph-reading in general G06K 11/00)} |
| | | 5/004 | <ul style="list-style-type: none"> • {Indicating the operating range of the engine (economical driving B60R 16/0236, F02B 77/084; measuring liquid fuel of an engine G01F 9/00)} |
| | | 5/006 | <ul style="list-style-type: none"> • {Indicating maintenance} |
| | | 5/008 | <ul style="list-style-type: none"> • {communicating information to a remotely located station (transmission systems for measured values G08C)} |
| | | 5/02 | <ul style="list-style-type: none"> • Registering or indicating driving, working, idle, or waiting time only (apparatus forming part of taximeters G07B 13/00) |
| | | 5/04 | <ul style="list-style-type: none"> • . using counting means or digital clocks |
| | | 5/06 | <ul style="list-style-type: none"> • . in graphical form |
| | | 5/08 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • . {Diagnosing performance data (testing of vehicles G01M 17/00; testing of electrical installation on vehicles G01R 31/005)} |
| | | 5/0816 | <ul style="list-style-type: none"> • . {Indicating performance data, e.g. occurrence of a malfunction} |
| | | 5/0825 | <ul style="list-style-type: none"> • . . {using optical means} |
| | | 5/0833 | <ul style="list-style-type: none"> • . . {using audio means} |
| | | 5/0841 | <ul style="list-style-type: none"> • {Registering performance data (recording measured values G01D; information storage G11B)} |
| | | 5/085 | <ul style="list-style-type: none"> • . . {using electronic data carriers} |

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| 5/0858 | {wherein the data carrier is removable} | 2009/00253 | {dynamically, e.g. variable code - rolling code} |
| 5/0866 | {the electronic data carrier being a digital video recorder in combination with video camera} | 2009/00261 | . . . {the keyless data carrier having more than one function} |
| 5/0875 | {using magnetic data carriers} | 2009/00269 | {opening and locking of all locks at the same time} |
| 5/0883 | {wherein the data carrier is removable} | 2009/00277 | {opening of different locks separately} |
| 5/0891 | {Video recorder in combination with video camera} | 2009/00285 | {immobilizer} |
| 5/10 | . . using counting means or digital clocks | 2009/00293 | {anti-theft} |
| 5/12 | . . in graphical form | 2009/00301 | {starting ignition} |
| 7/00 | Details or accessories common to the registering or indicating apparatus of groups G07C 3/00 and G07C 5/00 | 9/00309 | . . {operated with bidirectional data transmission between data carrier and locks} |
| 9/00 | Individual registration on entry or exit | 2009/00317 | . . . {keyless data carrier having only one limited data transmission range} |
| | NOTES | 2009/00325 | {and the lock having only one limited data transmission range} |
| | 1. This group <u>covers</u> : | 2009/00333 | {and the lock having more than one limited data transmission ranges} |
| | • controlling and registering access of persons to restricted areas or devices | 2009/00341 | . . . {keyless data carrier having more than one limited data transmission ranges} |
| | 2. This group <u>does not cover</u> : | 2009/00349 | {and the lock having only one limited data transmission range} |
| | • electric permutation locks using mechanical keys, covered by E05B 49/00 ; | 2009/00357 | {and the lock having more than one limited data transmission ranges} |
| | • apparatus actuated by coded identity cards or credit cards, to free or actuate vending, hiring or money-dispensing, covered by G07F 7/08 ; | 2009/00365 | . . . {in combination with a wake-up circuit} |
| | • access to facilities or services by means of coins or tokens, covered by G07F 17/00 ; | 2009/00373 | {whereby the wake-up circuit is situated in the lock} |
| | • 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 | 2009/0038 | {whereby the wake-up circuit is situated in the keyless data carrier} |
| | 3. Attention is drawn to the following places, which may be of interest for search: | 2009/00388 | . . . {code verification carried out according to the challenge/response method} |
| | • G06K 7/00 , G06K 19/00 arrangements for sensing or reading record carriers | 2009/00396 | {starting with prompting the keyless data carrier} |
| | • H03K 17/00 electronic switching | 2009/00404 | {starting with prompting the lock} |
| | • G06V 40/00 recognition of biometric, human-related or animal-related patterns in image or video data | 2009/00412 | . . . {the transmitted data signal being encrypted} |
| | • A61B 5/117 biometric identification used for diagnostic purposes | 2009/0042 | . . . {the transmitted data signal containing a code which is changed} |
| | • G06F 1/00 access to data processing equipment | 2009/00428 | {periodically after a time period} |
| 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 ; electronic switching H03K 17/00)} | 2009/00436 | {by the system} |
| 9/00182 | . . {operated with unidirectional data transmission between data carrier and locks} | 2009/00444 | {by the key} |
| 2009/0019 | . . . {the keyless data carrier having only one limited data transmission ranges} | 2009/00452 | {by the lock} |
| 2009/00198 | . . . {the keyless data carrier having more than one limited data transmission ranges} | 2009/0046 | {randomly} |
| 2009/00206 | . . . {the keyless data carrier being hand operated} | 2009/00468 | {after n uses} |
| 2009/00214 | {by one push button} | 2009/00476 | {dynamically} |
| 2009/00222 | {by more than one push button} | 2009/00484 | {whereby the code is a variable code} |
| 2009/0023 | . . . {with encryption of the transmitted data signal} | 2009/00492 | {whereby the code is a rolling code} |
| 2009/00238 | . . . {the transmitted data signal containing a code which is changed} | 2009/005 | {whereby the code is a random code} |
| 2009/00246 | {periodically, e.g. after a time period} | 2009/00507 | . . . {keyless data carrier having more than one function} |
| | | 2009/00515 | {opening and locking of all locks at the same time} |
| | | 2009/00523 | {opening of different locks separately} |
| | | 2009/00531 | {immobilizer} |
| | | 2009/00539 | {anti-theft} |
| | | 2009/00547 | {starting ignition} |
| | | 2009/00555 | . . . {comprising means to detect or avoid relay attacks} |
| | | 9/00563 | . . {using personal physical data of the operator, e.g. finger prints, retinal images, voicepatterns} |
| | | 9/00571 | . . {operated by interacting with a central unit} |
| | | 2009/00579 | . . {Power supply for the keyless data carrier} |
| | | 2009/00587 | . . . {by battery} |
| | | 2009/00595 | . . . {by solar energy} |

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| 2009/00603 | . . . {by power transmission from lock} | 2009/0096 | . . . {Electronic keys comprising a non-biometric sensor} |
| 2009/00611 | {by using inductive transmission} | 2009/00968 | . . {shape of the data carrier} |
| 2009/00619 | {by using capacitive transmission} | 2009/00976 | . . . {card} |
| 2009/00626 | {by using optical transmission} | 2009/00984 | . . . {fob} |
| 2009/00634 | . . {Power supply for the lock} | 2009/00992 | . . . {mechanical key} |
| 2009/00642 | . . . {by battery} | 9/10 | . Movable barriers with registering means |
| 2009/0065 | . . . {by solar energy} | 9/15 | . . with arrangements to prevent the passage of more than one individual at a time |
| 9/00658 | . . {operated by passive electrical keys} | 9/20 | . involving the use of a pass |
| 9/00666 | . . . {with dials} | 9/21 | . . having a variable access code |
| 9/00674 | . . . {with switch-buttons} | 9/215 | . . {the system having a variable access-code, e.g. varied as a function of time} |
| 9/00682 | {actuated repeatedly} | 9/22 | . . in combination with an identity check of the pass holder |
| 9/0069 | {actuated in a predetermined sequence} | 9/23 | . . . by means of a password |
| 9/00698 | {actuated in function of displayed informations} | 9/24 | . . . by means of a handwritten signature |
| 9/00706 | . . . {with conductive components, e.g. pins, wires, metallic strips} | 9/243 | {visually, e.g. by comparing in a viewer the written signature with a reference on the pass} |
| 9/00714 | . . . {with passive electrical components, e.g. resistor, capacitor, inductor} | 9/247 | {electronically, e.g. by comparing signal of hand-writing with a reference signal from the pass} |
| 9/00722 | . . . {with magnetic components, e.g. magnets, magnetic strips, metallic inserts (mechanical locks operated by permanent magnets E05B 47/0038)} | 9/25 | . . . using biometric data, e.g. fingerprints, iris scans or voice recognition |
| 9/0073 | {actuating magnetically controlled switches, e.g. reed relays} | 9/253 | {visually} |
| 9/00738 | {sensed by Hall effect devices} | 9/257 | {electronically (G07C 9/26 takes precedence)} |
| 2009/00746 | . . . {by knocking on a surface for inputting the code, e.g. detecting a series of taps on a surface} | 9/26 | using a biometric sensor integrated in the pass |
| 2009/00753 | . . {operated by active electrical keys} | 9/27 | . . with central registration |
| 2009/00761 | . . . {with data transmission performed by connected means, e.g. mechanical contacts, plugs, connectors} | 9/28 | . . the pass enabling tracking or indicating presence |
| 2009/00769 | . . . {with data transmission performed by wireless means} | 9/29 | . . the pass containing active electronic elements, e.g. smartcards |
| 2009/00777 | {by induction} | 9/30 | . not involving the use of a pass |
| 2009/00785 | {by light} | 9/32 | . . in combination with an identity check |
| 2009/00793 | {by Hertzian waves} | 9/33 | . . . by means of a password |
| 2009/00801 | {by acoustic waves} | 9/35 | . . . by means of a handwritten signature |
| 2009/00809 | . . . {with data transmission through the human body} | 9/37 | . . . using biometric data, e.g. fingerprints, iris scans or voice recognition |
| 9/00817 | . . {where the code of the lock can be programmed} | 9/38 | . . with central registration |
| 2009/00825 | . . . {remotely by lines or wireless communication} | 11/00 | Arrangements, systems or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere |
| 2009/00833 | . . . {by code input from switches} | 2011/02 | . {related to amusement parks} |
| 2009/00841 | . . . {by a portable device} | 2011/04 | . {related to queuing systems} |
| 2009/00849 | . . . {programming by learning} | 13/00 | Voting apparatus |
| 9/00857 | . . {where the code of the data carrier can be programmed} | 13/005 | . {operating mechanically} |
| 2009/00865 | . . . {remotely by wireless communication} | 13/02 | . Ballot boxes |
| 2009/00873 | . . . {by code input from the lock} | 15/00 | Generating random numbers; Lottery apparatus |
| 2009/0088 | . . . {centrally} | 15/001 | . {with balls or the like} |
| 2009/00888 | . . . {programming by learning} | 15/003 | . . {hand-held} |
| 9/00896 | . . {specially adapted for particular uses} | 15/005 | . {with dispensing of lottery tickets} |
| 9/00904 | . . . {for hotels, motels, office buildings or the like} | 15/006 | . {electronically} |
| 9/00912 | . . . {for safes, strong-rooms, vaults or the like} | 15/008 | . . {electronic dies} |
| 2009/0092 | . . . {for cargo, freight or shipping containers and applications therefore in general} | 2205/00 | Indexing scheme relating to group G07C 5/00 |
| 2009/00928 | . . . {for garage doors} | 2205/02 | . using a vehicle scan tool |
| 2009/00936 | . . . {for key cabinets} | 2209/00 | Indexing scheme relating to groups G07C 9/00 - G07C 9/38 |
| 9/00944 | . . {Details of construction or manufacture} | | |
| 2009/00952 | . . . {Electronic keys comprising a mechanical key within their housing, e.g. extractable or retractable emergency key} | | |

G07C

- 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