

# 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.

- |      |  |       |   |
|------|--|-------|---|
| 1/00 | <b>Registering, indicating or recording the time of events or elapsed time, e.g. time-recorders for work people</b> (registering or indicating the working of machines or vehicles <a href="#">G07C 3/00</a> , <a href="#">G07C 5/00</a> )                                   | 1/30  | . Parking meters (registering or indicating waiting time of vehicles by means driven by the vehicle <a href="#">G07C 5/02</a> ; coin-freed parking meters <a href="#">G07F 17/24</a> )  |
|      |  | 1/32  | . Time-recording locks (locks giving indication of unauthorised unlocking <a href="#">E05B 39/00</a> )  |
|      | <b>NOTE</b>  | 3/00  | <b>Registering or indicating the condition or the working of machines or other apparatus, other than vehicles</b> (engine indicators <a href="#">G01L</a> ; testing apparatus incident to its manufacture <a href="#">G01M</a> ; signalling arrangements <i>per se</i> , indicating undesired or abnormal working conditions <a href="#">G08B</a> ) |
|      | Subgroups <a href="#">G07C 1/20</a> - <a href="#">G07C 1/32</a> take precedence over subgroups <a href="#">G07C 1/02</a> - <a href="#">G07C 1/18</a>   |       |   |
| 1/02 | . not involving the registering, indicating or recording of other data   | 3/005 | . {during manufacturing process}  |
| 1/04 | . . wherein the time is indicated in figures   | 3/02  | . Registering or indicating working or idle time only   |
| 1/06 | . . . with apparatus adapted for use with individual cards   | 3/04  | . . using counting means or digital clocks  |
| 1/08 | . . wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time   | 3/045 | . . . {Mechanical counters or clocks}   |
| 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 <a href="#">G01D</a> or the appropriate other subclass of <a href="#">G01</a> , dependent on the variable) | 3/06  | . . in graphical form   |
| 1/12 | . . wherein the time is indicated in figures   | 3/08  | . Registering or indicating the production of the machine either with or without registering working or idle time   |
| 1/14 | . . . with apparatus adapted for use with individual cards   | 3/10  | . . using counting means (counting mechanisms <i>per se</i> <a href="#">G06M</a> )  |
| 1/16 | . . wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time   | 3/12  | . . in graphical form   |
| 1/18 | . . . with apparatus adapted for use with individual cards   | 3/14  | . Quality control systems   |
| 1/20 | . Checking timed patrols, e.g. of watchman   | 3/143 | . . {Finished product quality control}  |
| 1/22 | . in connection with sports or games   | 3/146 | . . {during manufacturing process}  |
| 1/24 | . . Race time-recorders (race-finish cameras <a href="#">G03B 41/00</a> )  | 5/00  | <b>Registering or indicating the working of vehicles</b> (for measuring distance travelled or combinations of speed and distance <a href="#">G01C</a> ; engine indicators <a href="#">G01L</a> ; devices for measuring speed or acceleration <a href="#">G01P</a> )   |
| 1/26 | . . Pigeon-timing or like equipment  | 5/002 | . {Analysing tachograph charts (arrangements for graph-reading in general <a href="#">G06K 11/00</a> )}   |
| 1/28 | . . Indicating playing time  | 5/004 | . {Indicating the operating range of the engine (economical driving <a href="#">B60R 16/0236</a> , <a href="#">F02B 77/084</a> ; measuring liquid fuel of an engine <a href="#">G01F 9/00</a> )}  |
|      |  | 5/006 | . {Indicating maintenance}  |

- 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 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}	2009/00531	. . . . {immobilizer}
2009/00198	. . . {the keyless data carrier having more than one limited data transmission ranges}	2009/00539	. . . . {anti-theft}
2009/00206	. . . {the keyless data carrier being hand operated}	2009/00547	. . . . {starting ignition}
2009/00214	. . . . {by one push button}	2009/00555	. . . {comprising means to detect or avoid relay attacks}
2009/00222	. . . . {by more than one push button}	9/00563	. . {using personal physical data of the operator, e.g. finger prints, retinal images, voicepatterns}
2009/00223	. . . {with encryption of the transmitted data signal}	9/00571	. . {operated by interacting with a central unit}
2009/00238	. . . {the transmitted data signal containing a code which is changed}	2009/00579	. . {Power supply for the keyless data carrier}
2009/00246	. . . . {periodically, e.g. after a time period}	2009/00587	. . . {by battery}
2009/00253	. . . . {dynamically, e.g. variable code - rolling code}	2009/00595	. . . {by solar energy}
2009/00261	. . . {the keyless data carrier having more than one function}	2009/00603	. . . {by power transmission from lock}
2009/00269	. . . . {opening and locking of all locks at the same time}	2009/00611	. . . . {by using inductive transmission}
2009/00277	. . . . {opening of different locks separately}	2009/00619	. . . . {by using capacitive transmission}
2009/00285	. . . . {immobilizer}	2009/00626	. . . . {by using optical transmission}
2009/00293	. . . . {anti-theft}	2009/00634	. . {Power supply for the lock}
2009/00301	. . . . {starting ignition}	2009/00642	. . . {by battery}
9/00309	. . {operated with bidirectional data transmission between data carrier and locks}	2009/0065	. . . {by solar energy}
2009/00317	. . . {keyless data carrier having only one limited data transmission range}	9/00658	. . {operated by passive electrical keys}
2009/00325	. . . . {and the lock having only one limited data transmission range}	9/00666	. . . {with dials}
2009/00333	. . . . {and the lock having more than one limited data transmission ranges}	9/00674	. . . {with switch-buttons}
2009/00341	. . . {keyless data carrier having more than one limited data transmission ranges}	9/00682	. . . . {actuated repeatedly}
2009/00349	. . . . {and the lock having only one limited data transmission range}	9/0069	. . . . {actuated in a predetermined sequence}
2009/00357	. . . . {and the lock having more than one limited data transmission ranges}	9/00698	. . . . {actuated in function of displayed informations}
2009/00365	. . . {in combination with a wake-up circuit}	9/00706	. . . {with conductive components, e.g. pins, wires, metallic strips}
2009/00373	. . . . {whereby the wake-up circuit is situated in the lock}	9/00714	. . . {with passive electrical components, e.g. resistor, capacitor, inductor}
2009/0038	. . . . {whereby the wake-up circuit is situated in the keyless data carrier}	9/00722	. . . {with magnetic components, e.g. magnets, magnetic strips, metallic inserts ( <a href="#">mechanical locks operated by permanent magnets E05B 47/0038</a> )}
2009/00388	. . . {code verification carried out according to the challenge/response method}	9/0073	. . . . {actuating magnetically controlled switches, e.g. reed relays}
2009/00396	. . . . {starting with prompting the keyless data carrier}	9/00738	. . . . {sensed by Hall effect devices}
2009/00404	. . . . {starting with prompting the lock}	2009/00746	. . . {by knocking on a surface for inputting the code, e.g. detecting a series of taps on a surface}
2009/00412	. . . {the transmitted data signal being encrypted}	2009/00753	. . {operated by active electrical keys}
2009/0042	. . . {the transmitted data signal containing a code which is changed}	2009/00761	. . . {with data transmission performed by connected means, e.g. mechanical contacts, plugs, connectors}
2009/00428	. . . . {periodically after a time period}	2009/00769	. . . {with data transmission performed by wireless means}
2009/00436	. . . . . {by the system}	2009/00777	. . . . {by induction}
2009/00444	. . . . . {by the key}	2009/00785	. . . . {by light}
2009/00452	. . . . . {by the lock}	2009/00793	. . . . {by Hertzian waves}
2009/0046	. . . . . {randomly}	2009/00801	. . . . {by acoustic waves}
2009/00468	. . . . . {after n uses}	2009/00809	. . . {with data transmission through the human body}
2009/00476	. . . . . {dynamically}	9/00817	. . {where the code of the lock can be programmed}
2009/00484	. . . . . {whereby the code is a variable code}	2009/00825	. . . {remotely by lines or wireless communication}
2009/00492	. . . . . {whereby the code is a rolling code}	2009/00833	. . . {by code input from switches}
2009/005	. . . . . {whereby the code is a random code}	2009/00841	. . . {by a portable device}
2009/00507	. . . {keyless data carrier having more than one function}	2009/00849	. . . {programming by learning}
2009/00515	. . . . {opening and locking of all locks at the same time}	9/00857	. . {where the code of the data carrier can be programmed}
2009/00523	. . . . {opening of different locks separately}	2009/00865	. . . {remotely by wireless communication}
		2009/00873	. . . {by code input from the lock}
		2009/0088	. . . {centrally}
		2009/00888	. . . {programming by learning}
		9/00896	. . {specially adapted for particular uses}

## G07C

- 9/00904 . . . {for hotels, motels, office buildings or the like}
- 9/00912 . . . {for safes, strong-rooms, vaults or the like}
- 2009/0092 . . . {for cargo, freight or shipping containers and applications therefore in general}
- 2009/00928 . . . {for garage doors}
- 2009/00936 . . . {for key cabinets}
- 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}
- 2009/0096 . . . {Electronic keys comprising a non-biometric sensor}
- 2009/00968 . . {shape of the data carrier}
- 2009/00976 . . . {card}
- 2009/00984 . . . {fob}
- 2009/00992 . . . {mechanical key}
- 9/02 . . Turnstiles with registering means ([turnstiles per se E04H](#); coin-freed aspects [G07F](#))
- 9/025 . . {with arrangements to prevent the passage of more than one person at a time, e.g. with fotocell-barrier}
- 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 A63E](#); 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