

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

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}	<b>WARNING</b>  Group <a href="#">G07C 9/21</a> is incomplete pending reclassification of documents from group <a href="#">G07C 9/27</a> .  Groups <a href="#">G07C 9/27</a> and <a href="#">G07C 9/21</a> 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 ( <a href="#">mechanical locks operated by permanent magnets E05B 47/0038</a> )}			
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 ( <a href="#">G07C 9/26 takes precedence</a> )}
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