

# 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.

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> )	3/04 3/045 3/06 3/08	<ul style="list-style-type: none"> <li>. . using counting means or digital clocks</li> <li>. . . {Mechanical counters or clocks}</li> <li>. . in graphical form</li> <li>. Registering or indicating the production of the machine either with or without registering working or idle time</li> </ul>
	<b>NOTE</b>		
	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>	3/10 3/12 3/14	<ul style="list-style-type: none"> <li>. . using counting means</li> <li>. . in graphical form</li> <li>. Quality control systems</li> </ul>
1/02	. not involving the registering, indicating or recording of other data	3/143 3/146	<ul style="list-style-type: none"> <li>. . {Finished product quality control}</li> <li>. . {during manufacturing process}</li> </ul>
1/04	. . wherein the time is indicated in figures		
1/06	. . . with apparatus adapted for use with individual cards	<b>5/00</b>	<b>Registering or indicating the working of vehicles</b>
1/08	. . wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time	5/002 5/004	<ul style="list-style-type: none"> <li>. {Analysing tachograph charts (arrangements for graph-reading in general <a href="#">G06K 11/00</a>)}</li> <li>. {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>)}</li> </ul>
1/10	. together with the recording, indicating or registering of other data, e.g. of signs of identity	5/006	. {Indicating maintenance}
1/12	. . wherein the time is indicated in figures	5/008	. {communicating information to a remotely located station (transmission systems for measured values <a href="#">G08C</a> )}
1/14	. . . 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 <a href="#">G07B 13/00</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	5/04 5/06 5/08	<ul style="list-style-type: none"> <li>. . using counting means or digital clocks</li> <li>. . in graphical form</li> <li>. Registering or indicating performance data other than driving, working, idle, or waiting time, with or without registering driving, working, idle or waiting time</li> </ul>
1/18	. . . with apparatus adapted for use with individual cards	5/0808	. . {Diagnosing performance data (testing of vehicles <a href="#">G01M 17/00</a> ; testing of electrical installation on vehicles <a href="#">G01R 31/005</a> )}
1/20	. Checking timed patrols, e.g. of watchman	5/0816	. . {Indicating performance data, e.g. occurrence of a malfunction}
1/22	. in connection with sports or games	5/0825	. . . {using optical means}
1/24	. . Race time-recorders	5/0833	. . . {using audio means}
1/26	. . Pigeon-timing or like equipment	5/0841	. . {Registering performance data (recording measured values <a href="#">G01D</a> ; information storage <a href="#">G11B</a> )}
1/28	. . Indicating playing time	5/085	. . . {using electronic data carriers}
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		
<b>3/00</b>	<b>Registering or indicating the condition or the working of machines or other apparatus, other than vehicles</b>		
3/005	. {during manufacturing process}		
3/02	. Registering or indicating working or idle time only		

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}
<b>7/00</b>	<b>Details or accessories common to the registering or indicating apparatus of groups <a href="#">G07C 3/00</a> and <a href="#">G07C 5/00</a></b>	9/00309	. . {operated with bidirectional data transmission between data carrier and locks}
<b>9/00</b>	<b>Individual registration on entry or exit</b>	2009/00317	. . . . {keyless data carrier having only one limited data transmission range}
	<b>NOTES</b>	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 <a href="#">E05B 49/00</a> ;	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 <a href="#">G07F 7/08</a> ;	2009/00365	. . . . {in combination with a wake-up circuit}
	• access to facilities or services by means of coins or tokens, covered by <a href="#">G07F 17/00</a> ;	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 <a href="#">G07F 19/00</a>	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}
	• <a href="#">G06K 7/00</a> , <a href="#">G06K 19/00</a> arrangements for sensing or reading record carriers	2009/00396	. . . . {starting with prompting the keyless data carrier}
	• <a href="#">H03K 17/00</a> electronic switching	2009/00404	. . . . {starting with prompting the lock}
	• <a href="#">G06V 40/00</a> recognition of biometric, human-related or animal-related patterns in image or video data	2009/00412	. . . . {the transmitted data signal being encrypted}
	• <a href="#">A61B 5/117</a> biometric identification used for diagnostic purposes	2009/0042	. . . . {the transmitted data signal containing a code which is changed}
	• <a href="#">G06F 1/00</a> 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 ( <a href="#">mechanical locks with electric permutation</a> <a href="#">E05B 49/00</a> ; <a href="#">arrangements for sensing or reading record carriers</a> <a href="#">G06K 7/00</a> ; <a href="#">electronic switching</a> <a href="#">H03K 17/00</a> )}	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 rangs}	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}

- 2009/00603 . . . {by power transmission from lock}
- 2009/00611 . . . . {by using inductive transmission}
- 2009/00619 . . . . {by using capacitive transmission}
- 2009/00626 . . . . {by using optical transmission}
- 2009/00634 . . {Power supply for the lock}
- 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}
  - 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}
- 2009/00753 . . {operated by active electrical keys}
- 2009/00761 . . . {with data transmission performed by connected means, e.g. mechanical contacts, plugs, connectors}
- 2009/00769 . . . {with data transmission performed by wireless means}
  - 2009/00777 . . . . {by induction}
  - 2009/00785 . . . . {by light}
  - 2009/00793 . . . . {by Hertzian waves}
  - 2009/00801 . . . . {by acoustic waves}
  - 2009/00809 . . . {with data transmission through the human body}
    - 9/00817 . . {where the code of the lock can be programmed}
- 2009/00825 . . . {remotely by lines or wireless communication}
- 2009/00833 . . . {by code input from switches}
- 2009/00841 . . . {by a portable device}
- 2009/00849 . . . {programming by learning}
  - 9/00857 . . {where the code of the data carrier can be programmed}
- 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}
  - 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}
  - 9/10 . . Movable barriers with registering means
  - 9/15 . . with arrangements to prevent the passage of more than one individual at a time
  - 9/20 . . involving the use of a pass
  - 9/21 . . having a variable access code
  - 9/215 . . {the system having a variable access-code, e.g. varied as a function of time}
  - 9/22 . . in combination with an identity check of the pass holder
  - 9/23 . . . by means of a password
  - 9/24 . . . by means of a handwritten signature
  - 9/243 . . . . {visually, e.g. by comparing in a viewer the written signature with a reference on the pass}
  - 9/247 . . . . {electronically, e.g. by comparing signal of hand-writing with a reference signal from the pass}
  - 9/25 . . . using biometric data, e.g. fingerprints, iris scans or voice recognition
  - 9/253 . . . . {visually}
  - 9/257 . . . . {electronically ([G07C 9/26 takes precedence](#))}
  - 9/26 . . . . using a biometric sensor integrated in the pass
  - 9/27 . . with central registration
  - 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**
  - 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**
  - 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](#)**

## 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