

# 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   | <ul style="list-style-type: none"> <li>• . using counting means or digital clocks</li> </ul>  |
|       |  | 3/045  | <ul style="list-style-type: none"> <li>• . . {Mechanical counters or clocks}</li> </ul>   |
|       |  | 3/06   | <ul style="list-style-type: none"> <li>• . in graphical form</li> </ul>   |
|       |  | 3/08   | <ul style="list-style-type: none"> <li>• Registering or indicating the production of the machine either with or without registering working or idle time</li> </ul>   |
|       |  | 3/10   | <ul style="list-style-type: none"> <li>• . using counting means</li> </ul>  |
|       |  | 3/12   | <ul style="list-style-type: none"> <li>• . in graphical form</li> </ul>   |
|       |  | 3/14   | <ul style="list-style-type: none"> <li>• Quality control systems</li> </ul>   |
|       |  | 3/143  | <ul style="list-style-type: none"> <li>• . {Finished product quality control}</li> </ul>  |
|       |  | 3/146  | <ul style="list-style-type: none"> <li>• . {during manufacturing process}</li> </ul>  |
|       | <b>NOTE</b><br>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  | <ul style="list-style-type: none"> <li>• not involving the registering, indicating or recording of other data</li> </ul>   |        |   |
| 1/04  | <ul style="list-style-type: none"> <li>• . wherein the time is indicated in figures</li> </ul>   |        |   |
| 1/06  | <ul style="list-style-type: none"> <li>• . . with apparatus adapted for use with individual cards</li> </ul>   |        |   |
| 1/08  | <ul style="list-style-type: none"> <li>• . wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time</li> </ul>   |        |   |
| 1/10  | <ul style="list-style-type: none"> <li>• together with the recording, indicating or registering of other data, e.g. of signs of identity</li> </ul>  |        |   |
| 1/12  | <ul style="list-style-type: none"> <li>• . wherein the time is indicated in figures</li> </ul>   |        |   |
| 1/14  | <ul style="list-style-type: none"> <li>• . . with apparatus adapted for use with individual cards</li> </ul>   |        |   |
| 1/16  | <ul style="list-style-type: none"> <li>• . wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time</li> </ul>   |        |   |
| 1/18  | <ul style="list-style-type: none"> <li>• . . with apparatus adapted for use with individual cards</li> </ul>   |        |   |
| 1/20  | <ul style="list-style-type: none"> <li>• Checking timed patrols, e.g. of watchman</li> </ul>   |        |   |
| 1/22  | <ul style="list-style-type: none"> <li>• in connection with sports or games</li> </ul>   |        |   |
| 1/24  | <ul style="list-style-type: none"> <li>• . Race time-recorders</li> </ul>  |        |   |
| 1/26  | <ul style="list-style-type: none"> <li>• . Pigeon-timing or like equipment</li> </ul>  |        |   |
| 1/28  | <ul style="list-style-type: none"> <li>• . Indicating playing time</li> </ul>  |        |   |
| 1/30  | <ul style="list-style-type: none"> <li>• 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>)</li> </ul>     |        |   |
| 1/32  | <ul style="list-style-type: none"> <li>• Time-recording locks</li> </ul>   |        |   |
| 3/00  | <b>Registering or indicating the condition or the working of machines or other apparatus, other than vehicles</b>  |        |   |
| 3/005 | <ul style="list-style-type: none"> <li>• {during manufacturing process}</li> </ul>   |        |   |
| 3/02  | <ul style="list-style-type: none"> <li>• Registering or indicating working or idle time only</li> </ul>  |        |   |
|       |  | 5/00   | <b>Registering or indicating the working of vehicles</b>  |
|       |  | 5/002  | <ul style="list-style-type: none"> <li>• {Analysing tachograph charts (arrangements for graph-reading in general <a href="#">G06K 11/00</a>)}</li> </ul>  |
|       |  | 5/004  | <ul style="list-style-type: none"> <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> |
|       |  | 5/006  | <ul style="list-style-type: none"> <li>• {Indicating maintenance}</li> </ul>  |
|       |  | 5/008  | <ul style="list-style-type: none"> <li>• {communicating information to a remotely located station (transmission systems for measured values <a href="#">G08C</a>)}</li> </ul>   |
|       |  | 5/02   | <ul style="list-style-type: none"> <li>• Registering or indicating driving, working, idle, or waiting time only (apparatus forming part of taximeters <a href="#">G07B 13/00</a>)</li> </ul>  |
|       |  | 5/04   | <ul style="list-style-type: none"> <li>• . using counting means or digital clocks</li> </ul>  |
|       |  | 5/06   | <ul style="list-style-type: none"> <li>• . in graphical form</li> </ul>   |
|       |  | 5/08   | <ul style="list-style-type: none"> <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>                           |
|       |  | 5/0808 | <ul style="list-style-type: none"> <li>• . {Diagnosing performance data (testing of vehicles <a href="#">G01M 17/00</a>; testing of electrical installation on vehicles <a href="#">G01R 31/005</a>)}</li> </ul>                                |
|       |  | 5/0816 | <ul style="list-style-type: none"> <li>• . {Indicating performance data, e.g. occurrence of a malfunction}</li> </ul>   |
|       |  | 5/0825 | <ul style="list-style-type: none"> <li>• . . {using optical means}</li> </ul>   |
|       |  | 5/0833 | <ul style="list-style-type: none"> <li>• . . {using audio means}</li> </ul>   |
|       |  | 5/0841 | <ul style="list-style-type: none"> <li>• {Registering performance data (recording measured values <a href="#">G01D</a>; information storage <a href="#">G11B</a>)}</li> </ul>   |
|       |  | 5/085  | <ul style="list-style-type: none"> <li>• . . {using electronic data carriers}</li> </ul>  |

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	<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}
9/00	<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> ; arrangements for sensing or reading record carriers <a href="#">G06K 7/00</a> ; electronic switching <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 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}

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	<b>Arrangements, systems or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere</b>
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	<b>Voting apparatus</b>
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	<b>Generating random numbers; Lottery apparatus</b>
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	<b>Indexing scheme relating to group G07C 5/00</b>
2009/00928	. . . {for garage doors}	2205/02	. using a vehicle scan tool
2009/00936	. . . {for key cabinets}	2209/00	<b>Indexing scheme relating to groups G07C 9/00 - G07C 9/38</b>
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