

## 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

#### Definition statement

*This place covers:*

- Registering, indicating or recording the time of events or elapsed time of events;
- Registering or indicating the condition or the working of machines or other apparatus, other than vehicles;
- Registering or indicating the working of vehicles;
- Details or accessories common to the registering or indicating apparatus of previous groups;
- Individual entry or exit registers;
- Arrangements, systems or apparatus for checking;
- Voting apparatus;
- Generating random numbers; lottery apparatus.

#### References

##### *Informative references*

*Attention is drawn to the following places, which may be of interest for search:*

See the list of not covered fields above and in addition:

Finger printing	<a href="#">A61B 5/103</a>
Identification of persons	<a href="#">A61B 5/117</a>
Card, board or roulette games	<a href="#">A63F</a>
Arrangements for preventing use of vehicles	<a href="#">B60R 25/00</a>
Control system for vehicles	<a href="#">B60W</a>
Mechanical locks	<a href="#">E05B</a>
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	<a href="#">G01D</a>
Testing of engines/vehicles	<a href="#">G01M 15/00</a>
Recording devices, per se	<a href="#">G01P 1/12</a>
Clocks, clock mechanisms	<a href="#">G04B</a> , <a href="#">G04C</a>
Time-interval measuring	<a href="#">G04F</a>
Electric testing or monitoring	<a href="#">G05B 23/02</a>
Random number generator, per se	<a href="#">G06F 7/58</a>
Error detection	<a href="#">G06F 11/00</a>
Security of computer systems	<a href="#">G06F 21/00</a>
Data carrier readers	<a href="#">G06K 7/00</a>
Structure of data carrier	<a href="#">G06K 19/00</a>
Counting mechanisms per se	<a href="#">G06M</a>

Recognition of biometric, human-related or animal-related patterns in image or video data	<a href="#">G06V 40/00</a>
Gaming machines	<a href="#">G07F 17/32</a>
Encryption systems	<a href="#">H04L 9/00</a>

## **G07C 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](#))**

### **Definition statement**

*This place covers:*

Means for recording the time or elapsed time of events of people, without recording the identity.

### **References**

#### **Limiting references**

*This place does not cover:*

Registering or indicating the working of machines or vehicles	<a href="#">G07C 3/00</a> , <a href="#">G07C 5/00</a>
Clocks or watches	<a href="#">G04B</a> , <a href="#">G04C</a>
Time interval measuring	<a href="#">G04F</a>

### **Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

See the list of not covered fields above

### **Special rules of classification**

- Subgroups [G07C 1/20](#) - [G07C 1/32](#) take precedence over subgroups [G07C 1/02](#) - [G07C 1/18](#)
- When the time of events is recorded with the person's identity, e.g. working hours of a person then it is classified in [G07C 1/10](#).
- Registering or indicating the condition or the working of machines or other apparatus, other than vehicles is classified in [G07C 3/00](#);
- Registering or indicating the working of vehicles is classified in [G07C 5/00](#);

## **G07C 1/02**

**not involving the registering, indicating or recording of other data**

### **Definition statement**

*This place covers:*

The registering, indicating or recording of the time of event only.

**G07C 1/04****wherein the time is indicated in figures****Definition statement***This place covers:*

The time is indicated or displayed in figures.

**G07C 1/06****with apparatus adapted for use with individual cards****Definition statement***This place covers:*

Using individual cards and time can be printed directly on the card or recorded on other means.

**G07C 1/08****wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time****Definition statement***This place covers:*

The time is represented by printing a mark, which can be pre-printed representation of a clock for example.

Can be printed on a card.

**G07C 1/10****together with the recording, indicating or registering of other data, e.g. of signs of identity****Definition statement***This place covers:*

The recording or indication of working hours (or real time) including other information like the identification of the person or the location.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Registering, indicating, or recording the time of events or elapsed time together with the recording of a continuously-varying variable	<a href="#">G01D</a>
Clocks, clock mechanisms	<a href="#">G04B</a> , <a href="#">G04C</a>
Time - interval measuring	<a href="#">G04F</a>
Administration; management	<a href="#">G06Q 10/00</a>

### Special rules of classification

Registering, indicating, or recording the time of events or elapsed time, e.g. time-recorders for work people together with the recording of other data represented by a continuously-varying variable should also be classified in [G01D](#) or the appropriate other subclass of class [G01](#), dependent on the variable.

## G07C 1/12

### wherein the time is indicated in figures

#### Definition statement

*This place covers:*

The time is indicated or displayed in figures.

## G07C 1/14

### with apparatus adapted for use with individual cards

#### Definition statement

*This place covers:*

Using individual cards and time (with additional information) can be printed directly on the card or recorded on other means.

## G07C 1/16

### wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time

#### Definition statement

*This place covers:*

The time is represented by printing a mark, which can be pre-printed representation of a clock for example. Additional information are also printed.

Can be printed on the card.

## G07C 1/18

### with apparatus adapted for use with individual cards

#### Definition statement

*This place covers:*

Time information printed on pre-printed marks is printed on the card.

## G07C 1/20

### Checking timed patrols, e.g. of watchman

#### Definition statement

*This place covers:*

Patrols, e.g. for security, have to "register" at different location to prove their passage; The registration can be done with a card and reader, dedicated mobile device or mobile phones.

Can take place inside a building or on larger scale, in a complete region.

## G07C 1/22

### in connection with sports or games

#### Definition statement

*This place covers:*

The time recording/registering of sports events in general, not provided by the subclasses [G07C 1/24](#), [G07C 1/26](#) and [G07C 1/28](#).

#### References

##### Limiting references

*This place does not cover:*

Arrangements for race time recording/indicating are classified in	<a href="#">G07C 1/24</a>
Arrangements for pigeon races are classified in	<a href="#">G07C 1/26</a>
Arrangements for recording/indicating playing time are classified in	<a href="#">G07C 1/28</a>

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Clocks or watches	<a href="#">G04B</a> , <a href="#">G04C</a>
Time interval measuring	<a href="#">G04F</a>

## G07C 1/24

### Race time-recorders

#### Definition statement

*This place covers:*

Arrangements for recording the time of a race, e.g. marathon or ski downhill.

#### References

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Race-finish cameras	<a href="#">G03B 41/00</a>
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#### Special rules of classification

Arrangements for race time recording/indicating are classified in [G07C 1/24](#).

Arrangements for pigeon races are classified in [G07C 1/26](#).

## G07C 1/26

### Pigeon-timing or like equipment

#### Definition statement

*This place covers:*

Arrangements specific to the recording of time of pigeon races.

#### Special rules of classification

Other types of races timing are classified in [G07C 1/24](#).

## G07C 1/28

### Indicating playing time

#### Definition statement

*This place covers:*

Arrangements for recording/indicating/registering the playing time of a game, like football, tennis. See also groups relating to the specific sports.

## G07C 1/30

### 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](#))

#### Definition statement

*This place covers:*

Parking meters, without involving payment, installed inside vehicles, like parking discs.

Only individual marking meters, without involving payment, installed inside vehicles are classified in this group

#### References

##### Limiting references

*This place does not cover:*

Registering or indicating waiting time of vehicles by means driven by the vehicle	<a href="#">G07C 5/02</a>
Parking systems (several parking meters)	<a href="#">G07B 15/02</a>
Coin-freed parking meters i.e. parking meters per se	<a href="#">G07F 17/24</a>

#### Special rules of classification

Parking systems (comprising several parking meters) are classified in [G07B 15/02](#).

If any payment is involved, the document should be classified in [G07B 15/02](#).

## G07C 1/32

### Time-recording locks

#### Definition statement

*This place covers:*

The lock comprises means for recording the time it has been opened or failed to open. Can comprise counting means or can be opened within a time window.

#### References

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Electronically operated locks	<a href="#">G07C 9/00174</a>
Mechanical locks	<a href="#">E05B</a>
Locks giving an indication of unauthorised unlocking	<a href="#">E05B 39/00</a>

## G07C 3/00

### Registering or indicating the condition or the working of machines or other apparatus, other than vehicles

#### Definition statement

*This place covers:*

Arrangements for the monitoring of machines or apparatuses other than vehicles in order to record or indicate the condition of working.

#### Relationships with other classification places

This group does not cover the analysis of the recorded/registered data, which is classified in [G05B 23/00](#) (analysis in general) or [G06F 11/00](#) (error detection).

The monitoring of vehicles, even when it refers to construction machines (vehicles) have to be classified in [G07C 5/00](#).

#### References

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Registering or indicating the working of vehicles	<a href="#">G07C 5/00</a>
Engine indicators	<a href="#">G01L</a>
Testing apparatus or testing of machines incident to its manufacture	<a href="#">G01M</a>
Centrally controlling a plurality of machines	<a href="#">G05B 19/418</a>
Testing or monitoring of control systems	<a href="#">G05B 23/00</a>
Signalling arrangements per se, e.g. indicating undesired or abnormal working conditions	<a href="#">G08B</a>

## **G07C 3/005**

**{during manufacturing process}**

### **Definition statement**

*This place covers:*

Arrangements for monitoring machines or apparatuses used in manufacturing processes (e.g.. drilling machines, robots, milling machines).

## **G07C 3/02**

**Registering or indicating working or idle time only**

### **Definition statement**

*This place covers:*

Only working or idle time is recorded or indicated (monitored).

## **G07C 3/04**

**using counting means or digital clocks**

### **Definition statement**

*This place covers:*

The arrangement for monitoring machines contains electronic counting means or digital clocks for counting.

## **G07C 3/045**

**{Mechanical counters or clocks}**

### **Definition statement**

*This place covers:*

The arrangement for monitoring machines contains mechanical counting means or digital clocks for counting.

## **G07C 3/06**

**in graphical form**

### **Definition statement**

*This place covers:*

The indication or registering of working or idle time only is done in graphical form.



**G07C 3/08**

**Registering or indicating the production of the machine either with or without registering working or idle time**

**Definition statement**

*This place covers:*

Arrangements for monitoring the production of machines or apparatuses (how much they produce). Can be for a electric generator for example.

**G07C 3/10**

**using counting means**

**Definition statement**

*This place covers:*

The arrangement for monitoring the production of machines contains counting means.

**References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Counting mechanisms, per se	<a href="#">G06M</a>
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**G07C 3/12**

**in graphical form**

**Definition statement**

*This place covers:*

The indication or registering of production of the machines is done in graphical form.

**G07C 3/14**

**Quality control systems**

**Definition statement**

*This place covers:*

The monitoring of machines other than vehicles is done the purpose of quality control.

**References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Quality surveillance of production	<a href="#">G05B 19/41875</a>
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**G07C 3/143****{Finished product quality control}****Definition statement***This place covers:*

The final product (after production) is checked.

**G07C 3/146****{during manufacturing process}****Definition statement***This place covers:*

The product is monitored (checked) during its manufacture.

**G07C 5/00****Registering or indicating the working of vehicles****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Details or accessories of vehicle registering devices	<a href="#">G07C 7/00</a>
Arrangements for preventing use of vehicles	<a href="#">B60R 25/00</a>
Control systems of road vehicles	<a href="#">B60W</a>
Registering or indicating the working of vehicles, for measuring distance travelled or combinations of speed and distance	<a href="#">G01C</a>
Engine indicators	<a href="#">G01L</a>
Testing of engines	<a href="#">G01M 15/00</a>
Devices for measuring speed or acceleration	<a href="#">G01P</a>
Electric testing or monitoring of control systems or parts thereof	<a href="#">G05B 23/02</a>

**G07C 5/002****{Analysing tachograph charts (arrangements for graph-reading in general [G06K 11/00](#))}****Definition statement***This place covers:*

Vehicle working data are registered on charts and analysed.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Arrangements for graph reading, in general	<a href="#">G06K 11/00</a>
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**G07C 5/004**

{Indicating the operating range of the engine (economical driving [B60R 16/0236](#), [F02B 77/084](#); measuring liquid fuel of an engine [G01F 9/00](#))}

**Definition statement**

*This place covers:*

Means for indicating the operating range of the vehicle (can be to the driver or remotely).

**References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Economical driving control means	<a href="#">B60R 16/0236</a> , <a href="#">F02B 77/084</a>
Measuring volume of a liquid (e.g.. fuel)	<a href="#">G01F 9/00</a>

**G07C 5/006**

{Indicating maintenance}

**Definition statement**

*This place covers:*

For indicating (to the driver or remotely) that maintenance has to be done.

**Special rules of classification**

Analysis of vehicle data as such, not classified in this subgroup (see [G05B 23/00](#)).

**G07C 5/008**

{communicating information to a remotely located station (transmission systems for measured values [G08C](#))}

**Definition statement**

*This place covers:*

Arrangements for the transmission of vehicle monitored data to a remote device (computer, network or scan tool). It includes dedicated networks in a maintenance garage or the use of intermediate means for transmission of the information (like a USB stick).

**References****Limiting references**

*This place does not cover:*

Wireless transmission of toll road information	<a href="#">G07B 15/063</a>
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**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Transmission systems for measured values	<a href="#">G08C</a>
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\$Indication of vehicle position	<a href="#">G08G 1/123</a>
Secure communication	<a href="#">H04L 9/00</a>

### Special rules of classification

The transmission of information dedicated to parking or toll roads systems is classified in [G07B 15/00](#).

The aspect of network security protocols should be classified in [H04L 63/00](#).

The aspect of real-time data switching communication protocols should be classified in [H04L 65/00](#).

The aspects of network protocols for data switching network services [H04L 67/00](#).

## G07C 5/02

**Registering or indicating driving, working, idle, or waiting time only (apparatus forming part of taximeters [G07B 13/00](#))**

### Definition statement

*This place covers:*

Arrangements for only registering/indicating driving, working, idle or waiting time of the vehicle.

### References

#### Limiting references

*This place does not cover:*

Apparatus forming part of taximeters	<a href="#">G07B 13/00</a>
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### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

For parking meters	<a href="#">G07F 17/24</a>
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## G07C 5/04

**using counting means or digital clocks**

### Definition statement

*This place covers:*

Arrangement for monitoring vehicles comprising counting means or digital clocks for counting.

## G07C 5/06

**in graphical form**

### Definition statement

*This place covers:*

The registering or indication of working, driving, idle or waiting time are in graphical form.

**G07C 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**

**Definition statement**

*This place covers:*

Additional information are registered or indicated, like engine performance, temperature.

**G07C 5/0808**

**{Diagnosing performance data (testing of vehicles [G01M 17/00](#); testing of electrical installation on vehicles [G01R 31/005](#))}**

**Definition statement**

*This place covers:*

Arrangement devices for diagnosing vehicle performance data, either inside vehicle or remotely (e.g.. scan tools); Registering the performance data.

**References****Limiting references**

*This place does not cover:*

Control systems of road vehicles	<a href="#">B60W</a>
Testing of engines, vehicles	<b>G01M15/17</b>
Testing of vehicles	<a href="#">G01M 17/00</a>
Testing of vehicle electrical installation	<a href="#">G01R 31/005</a>
Electric testing or monitoring (analysis of data)	<a href="#">G05B 23/02</a>

**Special rules of classification**

The analysis (process for predicting faults) of the registered data should be classified in [G05B 23/02](#).

**G07C 5/0816**

**{Indicating performance data, e.g. occurrence of a malfunction}**

**Definition statement**

*This place covers:*

Means for indicating (in vehicle or remotely) the vehicle performance (if there is a malfunction) or advising the driver (e.g.. to change gear).

**References****Limiting references**

*This place does not cover:*

Indication of information inside vehicle, per se	<a href="#">B60R 13/00</a>
Control of vehicles and sub-units	<a href="#">B60W</a>
Electric testing or monitoring (analysis of data)	<a href="#">G05B 23/02</a>

**G07C 5/0825****{using optical means}****Definition statement***This place covers:*

The performance indication is optical (e.g.. display).

**G07C 5/0833****{using audio means}****Definition statement***This place covers:*

The performance indication is audio (e.g.. loudspeakers).

**G07C 5/0841****{Registering performance data (recording measured values [G01D](#); information storage [G11B](#))}****Definition statement***This place covers:*

Means for registering the vehicle performance data.

**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Recording measured values	<a href="#">G01D</a>
Information storage	<a href="#">G11B</a>

**Special rules of classification**The following subgroups take precedence ([G07C 5/0841](#)+).**G07C 5/085****{using electronic data carriers}****Definition statement***This place covers:*

Electronic storage means, like black-boxes.

**Special rules of classification**

The storage of data from digital video cameras is also classified in this group.

## **G07C 5/0858**

**{wherein the data carrier is removable}**

### **Definition statement**

*This place covers:*

Data carrier can be for example, an IC-card or a USB stick

## **G07C 5/0866**

**{the electronic data carrier being a digital video recorder in combination with video camera}**

### **Definition statement**

*This place covers:*

Storage of video data on an electronic data carrier (digital).

For example, digital storage of video taken from the vehicle during an vehicle accident.

## **G07C 5/0875**

**{using magnetic data carriers}**

### **Definition statement**

*This place covers:*

The storage means are magnetic data carriers

## **G07C 5/0883**

**{wherein the data carrier is removable}**

### **Definition statement**

*This place covers:*

Data carrier can be for example, a floppy disk.

## **G07C 5/0891**

**{Video recorder in combination with video camera}**

### **Definition statement**

*This place covers:*

Storage of video data on a magnetic data recorder (like a tape).

### **Special rules of classification**

The electronic storage of data from digital video cameras is classified in [G07C 5/0866](#).

## G07C 5/10

### using counting means or digital clocks

#### Definition statement

*This place covers:*

Arrangement for registering vehicles operating data comprising counting means or digital clocks for counting.

## G07C 5/12

### in graphical form

#### Definition statement

*This place covers:*

The arrangement for registering/indicating vehicles operating data are in graphical form.

## G07C 7/00

### Details or accessories common to the registering or indicating apparatus of groups [G07C 3/00](#) and [G07C 5/00](#)

#### Definition statement

*This place covers:*

The details or accessories of the registering or indicating device, like connectors, mechanical details of the tachographs, backup battery, mounting means or printing means.

## G07C 9/00

### Individual registration on entry or exit

#### Definition statement

*This place covers:*

Checking or registering access or egress of articles, persons or other living beings to or from restricted areas or vehicles.

#### Relationships with other classification places

Systems or arrangements for specific purposes are classified in the following groups:

- Payment systems with user authentication, see [G07F](#) and/or [G06Q 20/00](#)
- Mechanical locks and keys are classified in [E05B](#)
- Security arrangements for protecting computers or computer systems against unauthorised activity, see [G06F 21/00](#)
- Cryptographic protocols, see [H04L 9/00](#)
- The control of access to computing devices is not covered by group [G07C 9/00](#), but instead by group [G06F 21/00](#)
- Network security protocols, see [H04L 63/00](#)
- Real-time communication protocols in data switching networks see [H04L 65/00](#)
- Network protocols for data switching network services see [H04L 67/00](#)



## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Biometric identification used for diagnostic purposes	<a href="#">A61B 5/117</a>
Systems for preventing unauthorised use or theft of vehicles	<a href="#">B60R 25/00</a>
Electric permutation locks using mechanical keys	<a href="#">E05B 49/00</a>
Turnstiles without registering means	<a href="#">E06B 11/08</a>
Data acquisition and logging	<a href="#">G06F 17/40</a>
Arrangements for recognising patterns	<a href="#">G06F 18/00</a>
Data processing for handling natural language data	<a href="#">G06F 40/00</a>
Arrangements for sensing or reading record carriers	<a href="#">G06K 7/00</a>
Record carriers for use with machines and with at least a part designed to carry digital markings	<a href="#">G06K 19/00</a>
Apparatus actuated by coded identity cards or credit cards, to free or actuate vending, hiring or money-dispensing	<a href="#">G07F 7/08</a>
Access to facilities or services by means of coins or tokens	<a href="#">G07F 17/00</a>
Arrangements actuated by coded cards for dispensing or receiving money and posting such transactions to existing accounts, e.g. automatic teller machines	<a href="#">G07F 19/00</a>
Electric switching	<a href="#">H03K 17/00</a>

## Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Pass	Any document or data carrier, such as tickets, tags, key fobs, smartphones, microchips, cards, electronic keys, mobile phones or USB sticks.
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## G07C 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](#))}

### Definition statement

This place covers:

Locks electronically controlled (e.g.. for building access or vehicles).

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Vehicle fittings specially adapted for preventing or indicating unauthorised use or theft of vehicles	<a href="#">B60R 25/00</a>
Mechanical locks and keys with electric permutation	<a href="#">E05B 49/00</a>
Mechanical locks with electric permutation	<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>

### Special rules of classification

If a document mentions the use of access systems in a vehicle and other use then a class in **B60R20/00** and a class in [G07C 9/00174](#) is given.

## G07C 9/00182

**{operated with unidirectional data transmission between data carrier and locks}**

### Definition statement

*This place covers:*

The data transmission is done from the data carrier to the lock.

## G07C 9/00309

**{operated with bidirectional data transmission between data carrier and locks}**

### Special rules of classification

Specific communication protocols like bluetooth or WIFI are considered as bidirectional data transmission.

## G07C 9/00563

**{using personal physical data of the operator, e.g. finger prints, retinal images, voicepatterns}**

### Definition statement

*This place covers:*

The door knob or handle contains a biometric reader, for example.

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Access control system using biometric data for authentication of the user	<a href="#">G07C 9/25</a> , <a href="#">G07C 9/37</a>
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**G07C 9/00571****{operated by interacting with a central unit}****Definition statement***This place covers:*

At least one electronic lock centrally controlled through a network; one of the locks can be the central controller; the electronic locks can exchange data with the other locks and/or with the central controller; the network can a LAN (or a WLAN) or any kind of network (telecom).

**Special rules of classification**

Access control systems (not the electronic locks per se) with central registration and control should be classified either in [G07C 9/27](#) or [G07C 9/38](#), depending if they involve the use of a pass or not.

**G07C 9/00658****{operated by passive electrical keys}****Definition statement***This place covers:*

The key does not contain any active mean (processor...).

The key is not necessarily physical (e.g.. PIN).

**Special rules of classification**

In this group ([G07C 9/00658](#) /**B/C/D/F/G**) the equivalent Indexing Code-code take precedence.

**G07C 9/00682****{actuated repeatedly}****Definition statement***This place covers:*

Sequential pulses, for example.

**G07C 9/00669****{actuated in a predetermined sequence}****Definition statement***This place covers:*

For entering a code (PIN) for example.

**G07C 9/00698****{actuated in function of displayed informations}****Definition statement***This place covers:*

Some instructions are displayed.

**G07C 9/00706****{with conductive components, e.g. pins, wires, metallic strips}****Definition statement***This place covers:*

Electrical connectors for data transmission between key and lock.

**G07C 9/00722****{with magnetic components, e.g. magnets, magnetic strips, metallic inserts  
(mechanical locks operated by permanent magnets [E05B 47/0038](#))}****References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Mechanical locks operated by permanent magnets	<a href="#">E05B 47/0038</a>
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**G07C 9/00896****{specially adapted for particular uses}****Definition statement***This place covers:*

- Lockers arrangements, specific systems for houses
- Electronically operated locks of key cabinets (or key cupboards or key-boxes)

**Special rules of classification**Key safes (key cabinets, key cupboards or key-boxes) are classified in [E05B 19/0005](#).**G07C 9/00912****{for safes, strong-rooms, vaults or the like}****References****Limiting references***This place does not cover:*

Banking systems with automatic teller machines (ATM)	<a href="#">G07F 19/20</a>
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**G07C 9/00944****{Details of construction or manufacture}****Definition statement***This place covers:*

Specific construction of the electronic key or lock.

## G07C 9/10

### Movable barriers with registering means

#### Definition statement

*This place covers:*

Arrangements for controlling the access using turnstiles or the like.

#### References

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Turnstiles per se	<a href="#">E04H</a>
Arrangements for collecting fares based on distance and with turnstiles	<a href="#">G07B 15/04</a>
Coin-freed aspects	<a href="#">G07F</a>

## G07C 9/20

### involving the use of a pass

#### Definition statement

*This place covers:*

Arrangements where the user possess a data carrier for accessing. The data carrier can be a card, electronic key, mobile phone, USB stick or equivalents.

#### References

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Electromagnetical or electronical keys and locks	<a href="#">E05B 49/00</a>
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#### Special rules of classification

For the record carrier itself, see [G06K 19/00](#) and [G06K 7/00](#).

Identification carriers per se, (like passports or ID cards) see [B42D 25/00](#)

## G07C 9/21

### having a variable access code

#### Definition statement

*This place covers:*

The data carrier, used by a person, which contains an access code and which changes every time used (e.g. rolling codes or random codes).

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Individual registration involving the use of a pass with central registration	<a href="#">G07C 9/27</a>
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## G07C 9/215

{the system having a variable access-code, e.g. varied as a function of time}

### Definition statement

This place covers:

Using codes contained in a data carrier being changed based on time (function of time).

## G07C 9/22

in combination with an identity check of the pass holder

### Definition statement

This place covers:

Any kind of identity verification of the pass-holder that is carried out (PIN, signature, visually or electronically) without specifying any specific method.

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Recognition of biometric, human-related or animal-related patterns in image or video data	<a href="#">G06V 40/00</a>
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## G07C 9/23

by means of a password

### Definition statement

This place covers:

Using any kind of password (PIN, spoken password) for accessing.

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Access-control involving the use of a pass in combination with an identity-check of the pass-holder by means of a pass-word in case of payment	<a href="#">G07F 7/00</a>
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## G07C 9/24

**by means of a handwritten signature**

### Definition statement

*This place covers:*

Using pass-holder's signature for identity verification.

### Relationships with other classification places

Groups [G06V 30/32](#), [G06V 30/226](#) and [G06V 40/30](#) take precedence if the disclosure is based on the way the signature is verified.

## G07C 9/25

**using biometric data, e.g. fingerprints, iris scans or voice recognition**

### Definition statement

*This place covers:*

The use of biometric information of the pass-holder comprising e.g. fingerprints, voice, ADN, face, hand, internal ear, etc.

### Relationships with other classification places

Group [G06V 40/00](#) takes precedence if the disclosure is based on the way the biometrics are analysed.

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Measuring or recording devices for testing the shape, pattern, size or movement of the body or parts thereof per se	<a href="#">A61B 5/103</a>
Speaker or speech identification per se	<a href="#">G10L 17/00</a>

## G07C 9/253

**{visually}**

### Definition statement

*This place covers:*

Visual checks done by a third party, e.g. security personnel, seller, policeman, etc.

## G07C 9/257

**{electronically ([G07C 9/26](#) takes precedence)}**

### Definition statement

*This place covers:*

Electronic checks with reference information.

## Relationships with other classification places

For cryptography involving biometric data, see [H04L 9/00](#) and classification symbol [H04L 9/3231](#).

## References

### Limiting references

*This place does not cover:*

Using a biometric sensor integrated in the pass	<a href="#">G07C 9/26</a>
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## Special rules of classification

Indexing Codes under [G07C](#) are used for the following subjects:

Data carriers comprising sensor for capturing personal physical data

Data carrier with sensor

Data carrier with fingerprint sensor

Data carrier with DNA info

## G07C 9/27

### with central registration

### Definition statement

*This place covers:*

Access control systems with data carrier having a central control or registration, e.g. over a network.

## Special rules of classification

Centrally controlled electronically operated locks are classified in [G07C 9/00571](#).

## G07C 9/28

### the pass enabling tracking or indicating presence

### Definition statement

*This place covers:*

Tracking users with data carriers, e.g. RFIDs, inside a facility.

Identification means with home arrest means.

## Relationships with other classification places

For home arrest as such, consult also [G08B 21/22](#).

## References

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Means for indicating the location of accidentally buried persons	<a href="#">A63B 29/02</a>
Identification by using radar means	<a href="#">G01S 13/02</a> , <a href="#">G01S 13/74</a>



Detecting presence by using magnetic or electric fields produced or modified by objects in general	<a href="#">G01V 3/08</a> , <a href="#">G01V 3/165</a>
Tracking of objects, for inventory purpose	<a href="#">G06Q 10/0833</a>

## G07C 9/29

the pass containing active electronic elements, e.g. smartcards

### Definition statement

*This place covers:*

The pass that has several functions, for example, for access and payment purposes.

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Record carriers used within a machine	<a href="#">G06K 19/06</a>
Active credit cards	<a href="#">G07F 7/08</a>

## G07C 9/30

not involving the use of a pass

### Definition statement

*This place covers:*

- Arrangements for access control without the use of any data carrier by the requester.
- Use of access code or other means for checking the authorisation.

### References

#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Permutation locks	<a href="#">E05B 49/00</a>
Access to facilities or services by means of coins or tokens	<a href="#">G07F 17/00</a>

## G07C 9/32

in combination with an identity check

### Definition statement

*This place covers:*

Any kind of authorization verification of the person that is carried out (PIN, signature, visually or electronically) without specifying any specific method.

**G07C 9/33****by means of a password****Definition statement**

*This place covers:*

The access needs by the use of any kind of password (PIN, spoken password) for accessing.

**G07C 9/37****using biometric data, e.g. fingerprints, iris scans or voice recognition****Definition statement**

*This place covers:*

The use of biometric information of the pass-holder comprising (fingerprints, voice, ADN, face, hand, internal ear)

**Relationships with other classification places**

For cryptography involving biometric data, see [H04L 9/00](#) and classification symbol [H04L 9/3231](#).

Recognition of biometric, human-related or animal-related patterns in image or video data, see [G06V 40/00](#).

**G07C 9/38****with central registration****Definition statement**

*This place covers:*

Access control systems, not using a data carrier and having a central control or registration, (e.g. over a network).

**G07C 11/00****Arrangements, systems or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere****Definition statement**

*This place covers:*

- Queuing systems in a shop, administration or attraction park (determination of waiting time in the queue);
- Electronic guide tour in museums (mobile device providing audio or visual information to visitors).

**References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Electronically operated locks of key cabinets (or key cupboards or key-boxes)	<a href="#">G07C 9/00896</a>
Key safes (key cabinets, key cupboards or key-boxes)	<a href="#">E05B 19/0005</a>
Administration, reservation or management	<a href="#">G06Q 10/00</a>

Signalling or alarm arrangements	<a href="#">G08B</a>
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## G07C 13/00

### Voting apparatus

#### Definition statement

*This place covers:*

All kind of voting systems (electronic, local, remote, by post mail or through internet).

#### Relationships with other classification places

For cryptographic aspects, see [H04L 9/30](#) or [H04L 9/32](#).

#### References

##### Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for monitoring user's behaviour or opinion	<a href="#">H04H 60/33</a>
Cryptographic aspects	<a href="#">H04L 9/30</a> , <a href="#">H04L 9/32</a>

## G07C 13/005

### {operating mechanically}

#### Definition statement

*This place covers:*

Mechanical arrangements for voting.

## G07C 13/02

### Ballot boxes

#### Definition statement

*This place covers:*

All kind of ballot boxes.

## G07C 15/00

### Generating random numbers; Lottery apparatus

#### Definition statement

*This place covers:*

Arrangements for generating random numbers and not covered by the subgroups.

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Games in general, e.g. card, board or roulette games	<a href="#">A63F</a>
Digital computer arrangements for generating random or pseudo-random numbers	<a href="#">G06F 7/58</a>
Gaming machines involving electronic lottery games	<a href="#">G07F 17/32</a>
Generating electric pulses at random intervals	<a href="#">H03K 3/84</a>

## G07C 15/001

{with balls or the like}

### Definition statement

*This place covers:*

Arrangements for random generators using balls or equivalent.

## G07C 15/003

{hand-held}

### Definition statement

*This place covers:*

Portable random generators using balls or equivalent.

## G07C 15/005

{with dispensing of lottery tickets}

### Definition statement

*This place covers:*

Arrangements for dispensing tickets in a random way.

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

**in case of paper tickets:**

Details for cutting-off or separating tickets	<a href="#">G07B 5/02</a>
Holders for providing access to tickets	<a href="#">G07B 7/00</a>

## **G07C 15/006**

**{electronically}**

### **Definition statement**

*This place covers:*

Arrangements for electronically generating random numbers.

### **Relationships with other classification places**

The specific electronic circuits are classified in [G06F 7/58](#)

## **G07C 15/008**

**{electronic dices}**

### **Definition statement**

*This place covers:*

Electronic dices;

Means for reading the dices (like cameras or sensors).