

## 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. (finger printing A61B5/103 ; 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)**

### Definition statement

*This subclass/group covers:*

The subclass 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 relevant to classification in this subclass

*This subclass/group does not cover:*

Arrangements for preventing use of vehicles	<a href="#">B60R 25/00</a>
Card, board or roulette games	<a href="#">A63F</a>
Clocks or watches	<a href="#">G04B</a> , <a href="#">G04C</a>
Control system for vehicles	<a href="#">B60W</a>

Counting mechanisms per se	<a href="#">G06M</a>
Data carrier readers	<a href="#">G06K 7/00</a>
Electric testing or monitoring	<a href="#">G05B 23/02</a>
Error detection	<a href="#">G06F 11/00</a>
Finger printing	<a href="#">A61B 5/103</a>
Gaming machines	<a href="#">G07F 17/32</a>
Measuring arrangements, per se	<a href="#">G01D</a>
Mechanical locks	<a href="#">E05B</a>
Random number generator, per se	<a href="#">G06F 7/58</a>
Reading or recognizing biometric data	<a href="#">G06K 9/00</a>
Recording devices, per se	<a href="#">G01P 1/12</a>
Security of computer systems	<a href="#">G06F 21/00</a>
Structure of data carrier	<a href="#">G06K 19/00</a>
Testing of engines/vehicles	<a href="#">G01M 15/17</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 and in addition:

Arrangements for monitoring the user's behaviour or opinions	<a href="#">H04N</a>
Encryption systems	<a href="#">H04L 9/29</a>

## Special rules of classification within this subclass

All ECLA classes have a corresponding [G07C](#) Indexing Code-code, which is to be used for secondary aspects (non-invention information).

## 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 G07C3/00, G07C5/00 )**

### Definition statement

*This subclass/group covers:*

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

### References relevant to classification in this group

*This subclass/group does not cover:*

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

- Subgroups [G07C 1/20](#) to [G07C 1/32](#) take precedence over subgroups [G07C 1/02](#) to [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 subclass/group 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 subclass/group covers:*

The time is indicated or displayed in figures.

## **G07C 1/06**

**with apparatus adapted for use with individual cards**

### **Definition statement**

*This subclass/group 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 subclass/group 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 (together with the recording of a**

**continuously-varying variable G01D or the appropriate other subclass of G01, dependent on the variable)**

### **Definition statement**

*This subclass/group covers:*

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

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Administration; management	<a href="#">G06Q 10/00</a>
Clocks or watches	<a href="#">G04B</a> , <a href="#">G04C</a>
Measuring arrangements, per se	<a href="#">G01D</a>
Time interval measuring	<a href="#">G04F</a>

### **Special rules of classification within this group**

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 subclass/group covers:*

The time is indicated or displayed in figures.

## **G07C 1/14**

**with apparatus adapted for use with individual cards**

### **Definition statement**

*This subclass/group 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 subclass/group 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 subclass/group 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 subclass/group 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 subclass/group 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 relevant to classification in this group

*This subclass/group 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 (race-finish cameras G03B41/00 )

#### Definition statement

*This subclass/group covers:*

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

## References relevant to classification in this subgroup

*This subclass/group does not cover:*

Cameras for race-finish	<a href="#">G03B 41/00</a>
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## Special rules of classification within this subgroup

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 subclass/group covers:*

Arrangements specific to the recording of time of pigeon races.

### Special rules of classification within this subgroup

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

## G07C 1/28

### Indicating playing time

#### Definition statement

*This subclass/group 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 G07C5/02; coin-free parking meters G07F17/24 )

#### Definition statement

*This subclass/group 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 relevant to classification in this subgroup

*This subclass/group does not cover:*

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

vehicle	
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### Special rules of classification within this subgroup

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 (locks giving indication of unauthorised unlocking E05B39/00 )

#### Definition statement

*This subclass/group covers:*

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

#### 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>
Locks giving indication of authorized or unauthorised unlocking	<a href="#">E05B 39/00</a>
Mechanical locks	<a href="#">E05B</a>

### G07C 3/00

#### Registering or indicating the condition or the working of machines or other apparatus, other than vehicles (engine indicators G01L; testing apparatus incident to its manufacture G01M; signalling arrangements per se, indicating undesired or abnormal working conditions G08B)

#### Definition statement

*This subclass/group covers:*

Arrangements for the monitoring of machines or apparatuses other than

vehicles in order to record or indicate the condition of working.

## References relevant to classification in this group

*This subclass/group does not cover:*

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

## Informative references

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

Centrally controlling a plurality of machines	<a href="#">G05B 19/418</a>
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This group does not cover the analysis of the recorded/registered data, which is classified in [G05B23](#) (analysis in general) or [G06F11](#) (error detection).

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

## **G07C 3/005**

### **during manufacturing process**

#### **Definition statement**

*This subclass/group 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 subclass/group covers:*

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

## **G07C 3/04**

### **using counting means or digital clocks**

#### **Definition statement**

*This subclass/group 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 subclass/group covers:*

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

## **G07C 3/06**

### **in graphical form**

#### **Definition statement**

*This subclass/group 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 subclass/group 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 (counting mechanisms per se G06M)**

### **Definition statement**

*This subclass/group covers:*

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

### **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 subclass/group covers:*

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

## **G07C 3/14**

**Quality control systems**

### **Definition statement**

*This subclass/group covers:*

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

### **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 subclass/group covers:*

The final product (after production) is checked.

## G07C 3/146

### during manufacturing process

#### Definition statement

*This subclass/group covers:*

The product is monitored (checked) during its manufacture.

## G07C 5/00

**Registering or indicating the working of vehicles (for measuring distance travelled or combinations of speed and distance G01C; engine indicators G01L; devices for measuring speed or acceleration G01P)**

#### Definition statement

*This subclass/group covers:*

#### References relevant to classification in this group

*This subclass/group does not cover:*

This complete group does not cover:

Arrangements for preventing use of vehicles	<a href="#">B60R 25/00</a>
Control systems of road vehicles	<a href="#">B60W</a>
Details or accessories of vehicle registering devices	<a href="#">G07C 7/00</a>
Electric testing or monitoring (analysis of data)	<a href="#">G05B 23/02</a>
Engine indicators	<a href="#">G01L 23/00</a>
Testing of engines/vehicles	<a href="#">G01M 15/17</a>

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## Informative references

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

Measuring distance travelled or combinations of speed and distance	<a href="#">G01C</a>
Devices for measuring speed or acceleration	<a href="#">G01P</a>

## G07C 5/002

**Analysing tachograph charts (arrangements for graph-reading in general G06K11/00)**

### Definition statement

*This subclass/group covers:*

Vehicle working data are registered on charts and analysed.

## 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 B60R16/0236, F02B77/084 ; measuring liquid fuel of an engine G01F9/00)**

### Definition statement

*This subclass/group covers:*

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

## 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 subclass/group covers:*

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

#### Special rules of classification within this subgroup

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 subclass/group 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 relevant to classification in this subclass/group

*This subclass/group does not cover:*

Wireless transmission of toll road information	<a href="#">G07B 15/00B6B</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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Secure communication	<a href="#">H04L 9/00</a>
\$Indication of vehicle position	<a href="#">G08G 1/123</a>

### Special rules of classification within this subgroup

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

The aspect of protocol of communication should be classified in [H04L 29/00](#).

## G07C 5/02

### Registering or indicating driving, working, idle, or waiting time only (apparatus forming part of taximeters G07B)

#### Definition statement

*This subclass/group covers:*

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

#### References relevant to classification in this subclass/group

*This subclass/group does not cover:*

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

## G07C 5/04

### using counting means or digital clocks

#### Definition statement

*This subclass/group covers:*

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

## G07C 5/06

### in graphical form

## Definition statement

*This subclass/group 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 subclass/group covers:*

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

## G07C 5/0808

**Diagnosing performance data (testing of vehicles G01M17/00; testing of electrical installation on vehicles G01R31/00D )**

## Definition statement

*This subclass/group covers:*

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

## References relevant to classification in this subgroup

*This subclass/group does not cover:*

Testing of engines, vehicles	<a href="#">G01M 15/17</a>
Testing of vehicles	<a href="#">G01M 17/00</a>
Testing of vehicle electrical installation	<a href="#">G01R 31/00D</a>
Electric testing or monitoring (analysis of data)	<a href="#">G05B 23/02</a>
Control systems of road vehicles	<a href="#">B60W</a>

## Special rules of classification within this subgroup

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 subclass/group 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 relevant to classification in this subgroup

*This subclass/group does not cover:*

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

## G07C 5/0825

using optical means

### Definition statement

*This subclass/group covers:*

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

## G07C 5/0833

using audio means

### Definition statement

*This subclass/group 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 subclass/group covers:*

Means for registering the vehicle performance data.

### **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 within this subclass**

The following subgroups take precedence ([G07C 5/0841+](#)).

## **G07C 5/085**

**using electronic data carriers**

### **Definition statement**

*This subclass/group covers:*

Electronic storage means, like black-boxes.

### **Special rules of classification within this subclass**

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 subclass/group covers:*

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

## **G07C 5/0866**

## **With digital video recorder in combination with video camera**

### **Definition statement**

*This subclass/group 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 subclass/group covers:*

The storage means are magnetic data carriers

### **G07C 5/0883**

#### **wherein the data carrier is removable**

### **Definition statement**

*This subclass/group covers:*

Data carrier can be for example, a floppy disk.

### **G07C 5/0891**

#### **Video recorder in combination with video camera**

### **Definition statement**

*This subclass/group covers:*

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

### **Special rules of classification within this subgroup**

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 subclass/group covers:*

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

## **G07C 5/12**

**in graphical form**

### **Definition statement**

*This subclass/group 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 G07C3/00 and G07C5/00**

### **Definition statement**

*This subclass/group 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 entry or exit registers**

### **Definition statement**

*This subclass/group covers:*

Controlling and registering access of persons to restricted areas or devices

In the head group ([G07C 9/00](#)) "human being" counting means are classified, also with a subgroup if specific access control means are disclosed.

This complete group covers access control in general, involving user identification or authentication (verification of identity); subgroup [G07C 9/00007](#) concerns the use of an access pass, subgroup [G07C 9/00126](#) concerns access without a pass (e.g.. PIN) and subgroup [G07C 9/00174](#) concerns the electronic lock and dedicated key.

### **Relationship between large subject matter areas**

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](#)
- Secret or secure communication, see [H04L 9/00](#)
- Protocols of communication, see [H04L 29/00](#)

### References relevant to classification in this subgroup

*This subclass/group does not cover:*

Electric permutation locks using mechanical keys	<a href="#">E05B 49/00</a>
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>
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>

### Informative references

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

Electric switching	<a href="#">H03K 17/00</a>
Biometric sensors, recognising biometric patterns	<a href="#">G06K 9/00</a>
Biometric identification used for diagnostic purposes	<a href="#">A61B 5/117</a>
Access to data processing equipment	<a href="#">G06F 1/00</a>
Arrangements for sensing or reading record carriers	<a href="#">G06K 7/00</a> , <a href="#">G06K 19/00</a>

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## G07C 9/00007

**Access-control involving the use of a pass (for electromagnetical or electronical keys and locks, see E05B49/00)**

### Definition statement

*This subclass/group covers:*

Arrangements where the user possess a data carrier for accessing (carrier can be a card, electronic key, mobile phone, USB stick or equivalent)

### 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 within this group

For the record carrier itself, see [G06K19](#) and [G06K 7/00](#).

Identification carriers per se, (like passports or ID cards) see [B42D 15/10](#)

## G07C 9/00015

**the pass having a variable code, e.g. varied by the controlling system (G07C9/00103 takes precedence)**

### Definition statement

*This subclass/group covers:*

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

### References relevant to classification in this subgroup

*This subclass/group does not cover:*

Access-control involving the use of a pass with central registration and control, e.g. for swimming pools or hotel-rooms, generally in combination with a pass-dispensing system	<a href="#">G07C 9/00103</a>
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### Special rules of classification within this subgroup

The Indexing Code-codes ([G07C 2009/00238](#) and ([G07C 2009/0042](#)) take precedence when

The data carrier activates/deactivates a lock

### G07C 9/00023

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

#### Definition statement

*This subclass/group covers:*

The code contained into the data carrier is changed based on time (function of time).

### Special rules of classification within this subgroup

The Indexing Code-codes ([G07C 2009/00238](#) and ([G07C 2009/0042](#)) take precedence when the data carrier activates/deactivates a lock

### G07C 9/00031

**in combination with an identity-check of the pass-holder (recognizing patterns, e.g. fingerprints or signatures G06K9/00 )**

#### Definition statement

*This subclass/group covers:*

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

### References relevant to classification in this subgroup

*This subclass/group does not cover:*

Recognizing patterns, e.g. fingerprints or signatures	<a href="#">G06K 9/00</a>
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### G07C 9/00039

by means of a pass-word (G07F7/00 takes precedence)

### Definition statement

*This subclass/group covers:*

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

### References relevant to classification in this subgroup

*This subclass/group does not cover:*

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 9/00047

by means of the handwritten signature of the pass-holder

### Definition statement

*This subclass/group covers:*

Use of pass-holder's signature for identity verification.

### Relationship between large subject matter areas

Group [G06K9](#) takes precedence if the disclosure is based on the way the signature is verified

## G07C 9/00071

by means of personal physical data, e.g. characteristic facial curves, hand geometry, voice spectrum, fingerprints speaker or speech identification per se 42T2B, e.g. 42T2B2D; measuring or recording devices for testing the shape, pattern, size or movement of the body or parts thereof per se A61B5/103 )

### Definition statement

*This subclass/group covers:*

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

## Relationship between large subject matter areas

Group [G06K9](#) takes precedence if the disclosure is based on the way the biometrics are analysed.

## Informative references

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

speaker or speech identification per se	42T2B
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>

## G07C 9/00079

**visually**

### Definition statement

*This subclass/group covers:*

Visual check done by a third party (, security personnel, seller, policeman...).

## G07C 9/00087

**electronically**

### Definition statement

*This subclass/group covers:*

Electronic check with a reference information.

## Relationship between large subject matter areas

For cryptography involving biometric data, see [H04L9](#) and classification symbol [H04L 9/00](#)-biometric.

Arrangements for recognizing patterns, see [G06K 9/00](#).

## Special rules of classification within this subgroup

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 9/00103**

**with central registration and control, e.g. for swimming pools or hotel-rooms, generally in combination with a pass-dispensing system**

### **Definition statement**

*This subclass/group covers:*

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

### **Special rules of classification within this subgroup**

Centrally controlled electronically operated locks are classified in [G07C 9/00E19](#).

## **G07C 9/00111**

**the pass performing a presence indicating function, e.g. identification tag or transponder (identification by using radar means G01S13/02A, G01S13/74; detecting presence by using magnetic or electric fields produced or modified by objects in general G01V3/08, G01V3/165; means for indicating the location of accidentally buried persons A63B29/02)**

### **Definition statement**

*This subclass/group covers:*

User with data carrier, e.g. RFID, are tracked inside a facility.

Identification means with home arrest means.

### **Relationship between large subject matter areas**

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

### **References relevant to classification in this subgroup**

*This subclass/group does not cover:*

Tracking of objects, for inventory purpose	<a href="#">G06Q 10/00</a>
Identification by using radar means	<a href="#">G01S 13/02A</a> , <a href="#">G01S 13/74</a>
Means for indicating the location of accidentally buried persons	<a href="#">A63B 29/02</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>

## **G07C 9/00119**

**the pass containing active electronic elements (active credit cards G07F7/08; record carriers characterised by digital working G06K19/06 )**

### **Definition statement**

*This subclass/group covers:*

The pass can do several functions, like access and payment purpose.

### **Informative references**

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

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

## **G07C 9/00126**

**Access control not involving the use of a pass (permutation locks E05B49/00; access to facilities or services by means of coins or tokens G07F17/00)**

### **Definition statement**

*This subclass/group covers:*

Arrangement for access control without the use of any data carrier by the

requester. Use of access code or other means for checking the authorization

## 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 9/00134

**in combination with an identity-check**

### Definition statement

*This subclass/group covers:*

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

## G07C 9/00142

**by means of a pass-word**

### Definition statement

*This subclass/group covers:*

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

## G07C 9/00158

**by means of a personal physical data**

### Definition statement

*This subclass/group covers:*

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

## Relationship between large subject matter areas

For cryptography involving biometric data, see [H04L9](#) and classification symbol [H04L 9/00](#)-biometric.

Arrangements for recognizing patterns, see [G06K 9/00](#).

## **G07C 9/00166**

**with central registration and control**

### **Definition statement**

*This subclass/group covers:*

This subgroups covers:

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

## **G07C 9/00174**

**Electronically operated locks; Circuits therefore;  
Non-mechanical keys therefore, e.g. passive or active  
electrical keys or other data carriers without mechanical keys  
(mechanical locks with electric permutation E05B49/00;  
arrangements for sensing or reading record  
carriers G06K7/00, G06K9/00; electronic switching H03K17/00)**

### **Definition statement**

*This subclass/group covers:*

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

### **Informative references**

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

Mechanical locks and keys with electric permutation	<a href="#">E05B 49/00</a>
Vehicle fittings specially adapted for preventing or indicating unauthorised use or theft of vehicles	<a href="#">B60R 25/00</a>
Mechanical locks with electric permutation	<a href="#">E05B 49/00</a>
Electronic switching	<a href="#">H03K 17/00</a>
Arrangements for sensing or reading record carriers	<a href="#">G06K 7/00</a> , <a href="#">G06K 9/00</a>

### Special rules of classification within this subgroup

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

### G07C 9/00182

#### Electronic locks operated with unidirectional data transmission between data carriers and locks

##### Definition statement

*This subclass/group covers:*

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

### G07C 9/00309

#### Electronic locks operated with bidirectional data transmission between data carriers and locks

### Special rules of classification within this subgroup

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, voice-patterns

##### Definition statement

*This subclass/group covers:*

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

##### 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 9/00071</a> , <a href="#">G07C 9/00158</a>
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### G07C 9/00658

**operated by passive electrical keys**

**Definition statement**

*This subclass/group covers:*

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

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

**Special rules of classification within this subclass**

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 subclass/group covers:*

Sequential pulses, for example.

**G07C 9/0069**

**actuated in a predetermined sequence**

**Definition statement**

*This subclass/group covers:*

For entering a code (PIN) for example.

**G07C 9/00698**

**actuated in function of displayed information**

**Definition statement**

*This subclass/group covers:*

Some instructions are displayed.

**G07C 9/00706**

**with conductive components, e.g. pins, wires, metallic strips**

**Definition statement**

*This subclass/group 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 E05B47/0038 )**

### **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 9/00E19**

### **Centrally controlled electronically operated locks**

#### **Definition statement**

*This subclass/group 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 within this subclass/group**

Access control systems (not the electronic locks per se) with central registration and control should be classified either in [G07C 9/00103](#) or [G07C 9/00166](#), depending if they involve the use of a pass or not.

## **G07C 9/00896**

### **specially adapted for particular uses**

#### **Definition statement**

*This subclass/group covers:*

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

#### **Special rules of classification within this subclass/group**

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 relevant to classification in this subgroup**

*This subclass/group does not cover:*

Banking systems with automatic teller machines (ATM)	<a href="#">G07F 19/00F</a>
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## **G07C 9/00944**

**Details of construction or manufacture**

### **Definition statement**

*This subclass/group covers:*

Specific construction of the electronic key or lock.

## **G07C 9/02**

**Turnstiles with registering means (turnstiles per se E04H;  
coin-freed aspects G07F**

### **Definition statement**

*This subclass/group covers:*

Arrangements for controlling the access using turnstiles or the like.

### **References relevant to classification in this subgroup**

*This subclass/group does not cover:*

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

## G07C 11/00

**Arrangements, systems, or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere (signalling or alarm arrangements G08B)**

### Definition statement

*This subclass/group 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 relevant to classification in this subgroup

*This subclass/group does not cover:*

Signaling or alarm arrangements	<a href="#">G08B</a>
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### Special rules of classification within this subclass/group

Electronically operated locks of key cabinets (or key cupboards or key-boxes) are classified in [G07C 9/00896](#).

Key safes (key cabinets, key cupboards or key-boxes) are classified in [E05B 19/0005](#).

Administration, reservation or management, see [G06Q 10/00](#).

## G07C 13/00

### Voting apparatus

#### Definition statement

*This subclass/group covers:*

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

### Relationship between large subject matter areas

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

### 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 subclass/group covers:*

Mechanical arrangements for voting.

## **G07C 13/02**

**Ballot boxes**

### **Definition statement**

*This subclass/group covers:*

All kind of ballot boxes.

## **G07C 15/00**

**Generating random numbers; Lottery apparatus ([N: games in general A63F;] digital computer arrangements for generating random or pseudo-random numbers G06F7/58; generating electric pulses at random intervals H03K3/84 )**

### **Definition statement**

*This subclass/group covers:*

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

### **Informative references**

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

Digital computer arrangements for generating random or pseudo-random numbers	<a href="#">G06F 7/58</a>
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Games in general, e.g. card, board or roulette games	<a href="#">A63F</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 subclass/group covers:*

Arrangements for random generators using balls or equivalent.

## **G07C 15/003**

**hand-held**

### **Definition statement**

*This subclass/group covers:*

Portable random generators using balls or equivalent.

## **G07C 15/005**

**with dispensing of lottery tickets**

### **Definition statement**

*This subclass/group covers:*

Arrangements for dispensing tickets in a random way.

### **Informative references**

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

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>
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Holders for providing access to tickets	<a href="#">G07B 7/00</a>
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## **G07C 15/006**

### **electronically**

#### **Definition statement**

*This subclass/group covers:*

Arrangements for electronically generating random numbers.

#### **Relationship between large subject matter areas**

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

## **G07C 15/008**

### **electronic dices**

#### **Definition statement**

*This subclass/group covers:*

Electronic dices;

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