

G07C

TIME OR ATTENDANCE REGISTERS; REGISTERING OR INDICATING THE WORKING OF MACHINES; GENERATING RANDOM NUMBERS; VOTING OR LOTTERY APPARATUS; ARRANGEMENTS, SYSTEMS OR APPARATUS FOR CHECKING NOT PROVIDED FOR ELSEWHERE (identification of persons [A61B 5/117](#); indicating or recording apparatus for measuring in general, analogous apparatus but in which the input is not a variable to be measured, e.g. a hand operation, [G01D](#); clocks, clock mechanisms [G04B](#), [G04C](#); time-interval measuring [G04F](#); counting mechanisms per se [G06M](#))

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

Limiting references

This place does not cover:

Finger printing	A61B 5/103
Card, board or roulette games	A63F
Arrangements for preventing use of vehicles	B60R 25/00
Control system for vehicles	B60W
Mechanical locks	E05B
Measuring arrangements, per se	G01D
Testing of engines/vehicles	G01M15/17
Recording devices, per se	G01P 1/12
Clocks or watches	G04B , G04C
Time interval measuring	G04F
Electric testing or monitoring	G05B 23/02
Random number generator, per se	G06F 7/58
Error detection	G06F 11/00
Security of computer systems	G06F 21/00
Data carrier readers	G06K 7/00
Reading or recognizing biometric data	G06K 9/00
Structure of data carrier	G06K 19/00
Counting mechanisms per se	G06M

Gaming machines	G07F 17/32
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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:

Encryption systems	H04L9/29
Arrangements for monitoring the user's behaviour or opinions	H04N

Special rules of classification

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 [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	G07C 3/00 , G07C 5/00
Clocks or watches	G04B , G04C
Time interval measuring	G04F

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 (together with the recording of a continuously-varying variable [G01D](#) or the appropriate other subclass of [G01](#), dependent on the variable)

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

Limiting references

This place does not cover:

Measuring arrangements, per se	G01D
Clocks or watches	G04B , G04C
Time interval measuring	G04F
Administration; management	G06Q 10/00

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	G07C 1/24
Arrangements for pigeon races are classified in	G07C 1/26
Arrangements for recording/indicating playing time are classified in	G07C 1/28

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

Clocks or watches	G04B , G04C
Time interval measuring	G04F

G07C 1/24**Race time-recorders (race-finish cameras [G03B 41/00](#))****Definition statement***This place covers:*

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

References

Limiting references

This place does not cover:

Cameras for race-finish	G03B 41/00
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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	G07C 5/02
Parking systems (several parking meters)	G07B 15/02

Coin-freed parking meters i.e. parking meters per se	G07F 17/24
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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 (locks giving indication of unauthorised unlocking [E05B 39/00](#))

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	G07C 9/00174
Mechanical locks	E05B
Locks giving indication of authorized or unauthorized unlocking	E05B 39/00

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 place covers:

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

References

Limiting references

This place does not cover:

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

Informative references

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

Centrally controlling a plurality of machines	G05B 19/418
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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](#).

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 (counting mechanisms per se [G06M](#))****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	G06M
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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	G05B 19/41875
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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 (for measuring distance travelled or combinations of speed and distance [G01C](#); engine indicators [G01L](#); devices for measuring speed or acceleration [G01P](#))

References

Limiting references

This place does not cover:

Details or accessories of vehicle registering devices	G07C 7/00
Arrangements for preventing use of vehicles	B60R 25/00
Control systems of road vehicles	B60W
Engine indicators	G01L 23/00
Testing of engines/vehicles	G01M15/17
Electric testing or monitoring (analysis of data)	G05B 23/02

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	G01C
Devices for measuring speed or acceleration	G01P

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	G06K 11/00
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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	B60R 16/0236 , F02B 77/084
Measuring volume of a liquid (e.g.. fuel)	G01F 9/00

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	G07B 15/063
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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	G08C
Secure communication	H04L 9/00
\$Indication of vehicle position	G08G 1/123

Special rules of classification

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 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	G07B
Taximeters	G07B 13/00

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	B60W
Testing of engines, vehicles	G01M15/17
Testing of vehicles	G01M 17/00
Testing of vehicle electrical installation	G01R 31/005
Electric testing or monitoring (analysis of data)	G05B 23/02

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	B60R 13/00
Control of vehicles and sub-units	B60W
Electric testing or monitoring (analysis of data)	G05B 23/02

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	G01D
Information storage	G11B

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 classificationThe 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 entry or exit registers****Definition statement***This place 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.

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

References

Limiting references

This place does not cover:

Electric permutation locks using mechanical keys	E05B 49/00
Apparatus actuated by coded identity cards or credit cards, to free or actuate vending, hiring or money-dispensing, covered by	G07F 7/08
Access to facilities or services by means of coins or tokens	G07F 17/00
Arrangements actuated by coded cards for dispensing or receiving money and posting such transactions to existing accounts, e.g. automatic teller machines	G07F 19/00

Informative references

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

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

G07C 9/00007

{Access-control involving the use of a pass (for electromagnetical or electronical keys and locks, see [E05B 49/00](#))}

Definition statement

This place covers:

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

References

Informative references

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

Electromagnetical or electronical keys and locks	E05B 49/00
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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 9/00015

**{the pass having a variable code, e.g. varied by the controlling system
([G07C 9/00103](#) takes precedence)}**

Definition statement

This place 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**Limiting references**

This place 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	G07C 9/00103
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Special rules of classification

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 place covers:

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

Special rules of classification

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 [G06K 9/00](#))}

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

Recognizing patterns, e.g. fingerprints or signatures	G06K 9/00
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G07C 9/00039

{by means of a pass-word ([G07F 7/00](#) takes precedence)}

Definition statement

This place covers:

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

References

Limiting references

This place 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	G07F 7/00
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G07C 9/00047

{by means of the handwritten signature of the pass-holder}

Definition statement

This place covers:

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

Relationships with other classification places

Group [G06K 9/00](#) 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 (measuring or recording devices for testing the shape, pattern, size or movement of the body or parts thereof per se [A61B 5/103](#))}

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

Group [G06K 9/00](#) 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:

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	A61B 5/103

G07C 9/00079

{visually}

Definition statement

This place covers:

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

G07C 9/00087

{electronically}

Definition statement

This place covers:

Electronic check with a reference information.

Relationships with other classification places

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

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

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 9/00103

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

Definition statement

This place covers:

Access control system 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 9/00111

{the pass performing a presence indicating function, e.g. identification tag or transponder (identification by using radar means [G01S 13/02](#), [G01S 13/74](#); detecting presence by using magnetic or electric fields produced or modified by objects in general [G01V 3/08](#), [G01V 3/165](#); means for indicating the location of accidentally buried persons [A63B 29/02](#))}

Definition statement

This place covers:

User with data carrier, e.g. RFID, are tracked 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

Limiting references

This place does not cover:

Means for indicating the location of accidentally buried persons	A63B 29/02
Identification by using radar means	G01S 13/02 , G01S 13/74
Detecting presence by using magnetic or electric fields produced or modified by objects in general	G01V 3/08 , G01V 3/165
Tracking of objects, for inventory purpose	G06Q 10/00

G07C 9/00119

{the pass containing active electronic elements (active credit cards [G07F 7/08](#); record carriers characterised by digital working [G06K 19/06](#))}

Definition statement

This place covers:

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

References

Informative references

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

Record carriers used within a machine	G06K 19/06
Active credit cards	G07F 7/08

G07C 9/00126

{Access control not involving the use of a pass (permutation locks [E05B 49/00](#); access to facilities or services by means of coins or tokens [G07F 17/00](#))}

Definition statement

This place 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

References**Informative references**

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

permutation locks	E05B 49/00
access to facilities or services by means of coins or tokens	G07F 17/00

G07C 9/00134

{in combination with an identity-check}

Definition statement

This place 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 place 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 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 9/00](#)-biometric.

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

G07C 9/00166**{with central registration and control}****Definition statement***This place 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 therefor; Nonmechanical keys therefor, e.g. passive or active electrical keys or other data carriers without mechanical keys (mechanical locks with electric permutation [E05B 49/00](#); arrangements for sensing or reading record carriers [G06K 7/00](#), [G06K 9/00](#); electronic switching [H03K 17/00](#))}

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	B60R 25/00
Mechanical locks and keys with electric permutation	E05B 49/00
Mechanical locks with electric permutation	E05B 49/00
Arrangements for sensing or reading record carriers	G06K 7/00 , G06K 9/00
Electronic switching	H03K 17/00

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	G07C 9/00071 , G07C 9/00158
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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 be 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 9/00103](#) or [G07C 9/00166](#), 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 means (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 9/0069**{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	E05B 47/0038
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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)	G07F 19/20
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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 9/02

Turnstiles with registering means (turnstiles per se [E04H](#); coin-freed aspects [G07F](#))

Definition statement

This place covers:

Arrangements for controlling the access using turnstiles or the like.

References

Limiting references

This place does not cover:

Turnstiles per se	E04H
Arrangements for collecting fares based on distance and with turnstiles	G07B 15/04
Coin-freed aspects	G07F

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 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

Limiting references

This place does not cover:

Signaling or alarm arrangements	G08B
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Special rules of classification

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 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	H04H 60/33
Cryptographic aspects	H04L 9/30 , H04L 9/32

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 ({games in general [A63F](#);} digital computer arrangements for generating random or pseudo-random numbers [G06F 7/58](#); generating electric pulses at random intervals [H03K 3/84](#))

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	A63F
Digital computer arrangements for generating random or pseudo-random numbers	G06F 7/58
Gaming machines involving electronic lottery games	G07F 17/32
Generating electric pulses at random intervals	H03K 3/84

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	G07B 5/02
Holders for providing access to tickets	G07B 7/00

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).