

ECLA EUROPEAN CLASSIFICATION

- 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](#))
- G07C1/00** **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](#))
- Note**
Subgroups [G07C1/20](#) to [G07C1/32](#) take precedence over subgroups [G07C1/02](#) to [G07C1/18](#)
- [G07C1/02](#) . not involving the registering, indicating or recording of other data
- [G07C1/04](#) . . wherein the time is indicated in figures
- [G07C1/06](#) . . . with apparatus adapted for use with individual cards
- [G07C1/08](#) . . wherein the time is indicated by marking an element, e.g. a card or tape, in position determined by the time
- [G07C1/10](#) . 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)
- [G07C1/12](#) . . wherein the time is indicated in figures
- [G07C1/14](#) . . . with apparatus adapted for use with individual cards
- [G07C1/16](#) . . wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time
- [G07C1/18](#) . . . with apparatus adapted for use with individual cards
- [G07C1/20](#) . Checking timed patrols, e.g. of watchman
- [G07C1/22](#) . in connection with sports or games
- [G07C1/24](#) . . Race time-recorders (race-finish cameras [G03B41/00](#))
- [G07C1/26](#) . . Pigeon-timing or like equipment
- [G07C1/28](#) . . Indicating playing time
- [G07C1/30](#) . Parking meters (registering or indicating waiting time of vehicles by means driven by the vehicle [G07C5/02](#); coin-freed parking meters [G07F17/24](#))
- [G07C1/32](#) . Time-recording locks (locks giving indication of unauthorised unlocking [E05B39/00](#))
- G07C3/00** **Registering or indicating the condition or the working of machines or other apparatus, other than vehicles** (engine indicators [G01L](#); testing apparatus incident to manufacture [G01M](#); signalling arrangements per se, indicating undesired or abnormal

working conditions [G08B](#))

- G07C3/00Q . [N: during manufacturing process] [N9603]
- G07C3/02 . Registering or indicating working or idle time only
- G07C3/04 . . using counting means or digital clocks
- G07C3/04M . . . [N: Mechanical counters or clocks] [N9603]
- G07C3/06 . . in graphical form
- G07C3/08 . Registering or indicating the production of the machine either with or without registering working or idle time
- G07C3/10 . . using counting means ([counting mechanisms per se G06M](#))
- G07C3/12 . . in graphical form
- G07C3/14 . Quality control systems
- G07C3/14P . . [N: Finished product quality control] [N9603]
- G07C3/14Q . . [N: during manufacturing process] [N9603]
- G07C5/00** **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](#))
- G07C5/00B . [N: Analysing tachograph charts ([arrangements for graph-reading in general G06K11/00](#))]
- G07C5/00E . [N: Indicating the operating range of the engine([economical drivingB60R16/023D7,F02B77/08E](#); [measuring liquid fuel of an engineG01F9/00](#))] [C0606]
- G07C5/00M . [N: Indicating maintenance]
- G07C5/00T . [N: communicating information to a remotely located station ([transmission systems for measured values G08C](#))]
- G07C5/02 . Registering or indicating driving, working, idle, or waiting time only ([apparatus forming part of taximeters G07B](#))
- G07C5/04 . . using counting means or digital clocks
- G07C5/06 . . in graphical form
- G07C5/08 . Registering or indicating performance data other than driving, working, idle, or waiting time, with or without registering driving, working, idle or waiting time
- G07C5/08D . . [N: Diagnosing performance data ([testing of vehicles G01M17/00](#); [testing of electrical installation on vehicles G01R31/00D](#))]
- G07C5/08P . . [N: Indicating performance data, e.g. occurrence of a malfunction]
- G07C5/08P2 . . . [N: using optical means]
- G07C5/08P4 . . . [N: using audio means]
- G07C5/08R . . [N: Registering performance data ([recording measured values G01D](#); [information storage G11B](#))]

- G07C5/08R2 . . . [N: using electronic data carriers]
- G07C5/08R2B [N: wherein the data carrier is removable]
- G07C5/08R2C [N: the electronic data carrier being a digital video recorder in combination with video camera] [N1203]
- G07C5/08R4 . . . [N: using magnetic data carriers]
- G07C5/08R4B [N: wherein the data carrier is removable]
- G07C5/08R4C [N: Video recorder in combination with video camera]
- G07C5/10 . . using counting means or digital clocks
- G07C5/12 . . in graphical form

G07C7/00 **Details or accessories common to the registering or indicating apparatus of groups [G07C3/00](#) and [G07C5/00](#)**

G07C9/00 **Individual entry or exit registers**

[N: **Notes**

1. This group covers:

- controlling and registering access of persons to restricted areas or devices

2. This group does not cover:

- electric permutation locks using mechanical keys, covered by [E05B49/00](#);
 - apparatus actuated by coded identity cards or credit cards, to free or actuate vending, hiring or money-dispensing, covered by [G07F7/08](#);
 - access to facilities or services by means of coins or tokens, covered by [G07F17/00](#);
 - arrangements actuated by coded cards for dispensing or receiving money and posting such transactions to existing accounts, e.g. automatic teller machines, covered by [G07F19/00](#)

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

- [G06K7/00](#), [G06K19/00](#) arrangements for sensing or reading record carriers
 - [H03K17/00](#) electronic switching
 - [G06K9/00](#) biometric sensors, recognising biometric patterns
 - [A61B5/117](#) biometric identification used for diagnostic purposes
 - [G06F1/00](#) access to data processing equipment

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G07C9/00B . [N: Access-control involving the use of a pass (for electromagnetical or electrical keys and locks, see [E05B49/00](#))]

G07C9/00B2 . . [N: the pass having a variable code, e.g. varied by the controlling system ([G07C9/00B8](#) takes precedence)]

- G07C9/00B4 . . [N: the system having a variable access-code, e.g. varied as a function of time]
- G07C9/00B6 . . [N: in combination with an identity-check of the pass-holder (recognizing patterns, e.g. fingerprints or signatures [G06K9/00](#))]
- G07C9/00B6B . . . [N: by means of a pass-word ([G07F7/00](#) takes precedence)]
- G07C9/00B6C . . . [N: by means of the handwritten signature of the pass-holder]
- G07C9/00B6C2 [N: visually, e.g. by comparing in a viewer the written signature with a reference on the pass]
- G07C9/00B6C4 [N: electronically, e.g. by comparing signal of hand-writing with a reference signal from the pass]
- G07C9/00B6D . . . [N: 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 [A61B5/103](#))]
- G07C9/00B6D2 [N: visually]
- G07C9/00B6D4 [N: electronically]
- G07C9/00B8 . . [N: with central registration and control, e.g. for swimming pools or hotel-rooms, generally in combination with a pass-dispensing system]
- G07C9/00B10 . . [N: 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](#))]
- G07C9/00B12 . . [N: the pass containing active electronic elements (active credit cards [G07F7/08](#); record carriers characterised by digital working [G06K19/06](#))]
- G07C9/00C . . [N: 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](#))]
- G07C9/00C2 . . [N: in combination with an identity-check]
- G07C9/00C2B . . . [N: by means of a pass-word]
- G07C9/00C2C . . . [N: by means of a handwritten signature]
- G07C9/00C2D . . . [N: by means of a personal physical data]
- G07C9/00C4 . . [N: with central registration and control]
- G07C9/00E . . [N: 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 [E05B49/00](#); arrangements for sensing or reading record carriers [G06K7/00](#), [G06K9/00](#); electronic switching [H03K17/00](#))]
[N0111]
- G07C9/00E2 . . [N: operated with unidirectional data transmission between data carrier and locks]
[N0111] [M1203]
- G07C9/00E4 . . [N: operated with bidirectional data transmission between data carrier and locks]
[N0111] [M1203]
- G07C9/00E6 . . [N: using personal physical data of the operator, e.g. finger prints, retinal images, voicepatterns] [N0111]
- G07C9/00E7 . . [N: operated by interacting with a central unit] [N1203]
- G07C9/00E12 . . [N: operated by passive electrical keys] [N0111]
- G07C9/00E12B . . . [N: with dials] [N0111]
- G07C9/00E12C . . . [N: with switch-buttons] [N0111]
- G07C9/00E12C2 [N: actuated repeatedly] [N0111]

- G07C9/00E12C4 [N: actuated in a predetermined sequence] [N0111]
- G07C9/00E12C6 [N: actuated in function of displayed informations] [N0111]
- G07C9/00E12D . . . [N: with conductive components, e.g. pins, wires, metallic strips] [N0111]
- G07C9/00E12F . . . [N: with passive electrical components, e.g. resistor, capacitor, inductor] [N0111]
- G07C9/00E12G . . . [N: with magnetic components, e.g. magnets, magnetic strips, metallic inserts (mechanical locks operated by permanent magnets [E05B47/00B](#))] [N0111]
- G07C9/00E12G2 [N: actuating magnetically controlled switches, e.g. reed relays] [N0111]
- G07C9/00E12G4 [N: sensed by Hall effect devices] [N0111]
- G07C9/00E16 . . [N: where the code of the lock can be programmed] [N0111]
- G07C9/00E18 . . [N: where the code of the data carrier can be programmed] [N0111]
- G07C9/00E20 . . [N: specially adapted for particular uses] [N0111]
- G07C9/00E20B . . . [N: for hotels, motels, office buildings or the like] [N0111]
- G07C9/00E20C . . . [N: for safes, strong-rooms, vaults or the like] [N0111]
- G07C9/00E22 . . [N: Details of construction or manufacture] [N0111]

- G07C9/02 . Turnstiles with registering means (turnstiles per se [E04H](#); coin-freed aspects [G07F](#))
- G07C9/02B . . [N: with arrangements to prevent the passage of more than one person at a time, e.g. with fotocell-barrier]

- G07C11/00** **Arrangements, systems, or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere (signalling or alarm arrangements [G08B](#))**

- G07C13/00** **Voting apparatus**

- G07C13/00B . [N: operating mechanically] [N0001]
- G07C13/02 . Ballot boxes

- G07C15/00** **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](#))**

- G07C15/00B . [N: with balls or the like]
- G07C15/00B2 . . [N: hand-held]
- G07C15/00D . [N: with dispensing of lottery tickets]
- G07C15/00E . [N: electronically]
- G07C15/00E2 . . [N: electronic dies]