INSTRUMENTS

G07 CHECKING-DEVICES

G07B TICKET-ISSUING APPARATUS; FARE-REGISTERING APPARATUS; FRANKING APPARATUS

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Machines for printing and issuing tickets (printing mechanisms per se B41; output mechanisms of digital computers G06C 11/00)
1/02 . employing selective printing plates
1/04 . wherein the plates are inserted
1/06 . without selective printing plates
1/08 . portable

3/00 Machines for issuing preprinted tickets
3/02 . from stock in wound strip form
3/04 . from a stack

5/00 Details of, or auxiliary devices for, ticket-issuing machines (for validating inserted tickets G07B 11/02)
5/02 . for cutting-off or separating tickets
5/04 . for recording or registering tickets issued
5/06 . for preventing fraudulent operation
5/08 . for avoiding incorrect action of the machine
5/10 . indicating when ticket supply is exhausted
5/12 . allowing manual writing on the tickets

7/00 Holders providing direct manual access to the tickets

9/00 Ticket punches (perforating pliers B26F 1/36; marking record carriers in digital fashion by punching G06K 1/02)
9/02 . Toy ticket-punches

11/00 Apparatus for validating or cancelling issued tickets
11/02 . for validating inserted tickets
11/03 . by printing
11/05 . by perforating
11/07 . by separating part of ticket
11/09 . combined with receptacle for separated part of ticket (refuse receptacles in general B65F 1/00)
11/11 . for cancelling tickets

13/00 Taximeters (measuring distance travelled G01C; measuring time G04)
13/005 . [operating mechanically]
13/02 . Details; Accessories
13/04 . for indicating fare or state of hire
13/045 . .[with indicating means on the outside of the vehicle]

13/06 . . Driving arrangements
13/08 . . Tariff-changing arrangements
13/10 . . automatically actuated

15/00 Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points (handling coins or valuable papers, e.g. banknotes, G07D; apparatus for vending or hiring articles or services activated by coins, credit cards, paper currency or the like G07F 7/00, G07F 17/00)

NOTES

1. Data processing aspects of payment systems or protocols relating to toll, entrance fee or fare collection, e.g. in road pricing or congestion charging, are also classified in G06Q 20/00.
2. { This group covers also:
   • car rental systems;
   • systems for reserving and using access tickets, e.g. check-in systems }

15/02 . taking into account a variable factor such as distance or time, e.g. for passenger transport, parking systems or car rental systems (G07B 15/06 takes precedence; taximeters G07B 13/00; parking meters per se G07F 17/24; {car rental systems per se G07B 15/00})

15/04 . comprising devices to free a barrier, turnstile, or the like { (turnstiles with registering means G07C 9/10; coin-freed aspects G07F 17/00) }

15/06 . Arrangements for road pricing or congestion charging of vehicles or vehicle users, e.g. automatic toll systems

NOTE

This group covers the identification or tracking of vehicles or vehicle users for the purpose of road pricing or congestion charging, which means that vehicles or vehicle users are not necessarily channelled through fixed control points, e.g. toll booths or overhead gantries, but may be detected at a number of places when they travel in normal fashion in a pre-defined locality, e.g. a defined area in a city centre or an expressway, and where the information so
17/000088 . . . [via landlines]
17/000096 . . . [via phone lines]
17/000104 . . . [via TV cable]
17/000112 . . . [Wireless]
17/000112 . . . [in a mobile phone system]
17/000129 . . . [Satellite communication]
17/000137 . . . [In a LAN]
17/000145 . . . [via the Internet]
17/000153 . . . [for sending information]
17/000161 . . . [from a central, non-user location, e.g. for updating rates or software, or for refilling funds]
17/000169 . . . [from a franking apparatus, e.g. for verifying accounting]
17/000177 . . . [from a portable device, e.g. a card or a PCMCIA]
17/00185 . . . [Details internally of apparatus in a franking system, e.g. franking machine at customer or apparatus at post office (digital data processing G06F; coin-freed apparatus for franking per se G07F 17/26)]
17/00193 . . . [Constructional details of apparatus in a franking system]
17/00201 . . . [Open franking system, i.e. the printer is not dedicated to franking only, e.g. PC (Personal Computer)]
17/00209 . . . [Mailbox, i.e. container for outgoing mail]
17/00217 . . . [Portable franking apparatus, i.e. the whole franking apparatus, not parts alone]
17/00225 . . . [Vending machine or POS (Point Of Sale) apparatus]
17/00233 . . . [Housing, e.g. lock or hardened casing]
17/00241 . . . [Modular design]
17/0025 . . . [Storage of, e.g. ribbon]
References listed below indicate CPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

- secret or secure communication H04L 9/00
- mechanisms actuated by objects other than coins to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus for cashless transactions only G07F 7/10
- access-control involving the use of a pass in combination with an identity-check of the pass-holder by means of personal physical data, e.g. characteristic facial curves, hand geometry, voice spectrum, fingerprints G07C 9/00
- recognising characters or patterns in general G06F 18/00, G06V 3/00
- random or pseudo-random generators G06F 7/58
- circuits generating pulses having a predetermined statistical distribution H03K 3/84
- multiple service credit cards with protecting memory zones G07F 7/10
- security arrangements for protecting computers or computer systems against unauthorised activity G06F 21/00
- record carriers with conductive marks and special arrangements for circuits, e.g. for protecting identification code in memory G06K 19/00
- error detection and error correction G06F 11/00
- coding, decoding or code conversion, for error detection or error correction H03M 13/00

Cryptographic modules, e.g. a PC encryption board)

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