

G07B

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

Definition statement

This place covers:

- Machines for printing and issuing tickets
- Machines for issuing pre-printed tickets
- Details of, or auxiliary devices for, ticket-issuing machines
- Holders providing direct manual access to tickets
- Ticket punches
- Apparatus for validating or cancelling issued tickets
- Taximeters
- Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points
- Franking apparatus

References

Limiting references

This place does not cover:

Punching or perforating pliers	B26F 1/36
Turnstiles with registering means	G07C 9/00
Handling of coins or of paper currency or similar valuable papers	G07D
Mechanisms actuated by objects other than coins to free or to actuate vending, hiring; Coin or paper currency dispensing or refunding apparatus	G07F 7/00
Coin-freed apparatus for hiring articles; Coin-freed facilities or services	G07F 17/00
Parking meters per se	G07F 17/24

Informative references

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

Printing machines or presses	B41F
Output mechanism for digital computers in which all the computation is effected mechanically	G06C 11/00

Special rules of classification

Use of Indexing Codes:

All ECLA classes have a corresponding [G07B](#) Indexing Code-code, which is to be used for secondary aspects (non-invention aspects).

In groups [G07B 1/00](#) - [G07B 15/00](#), from 01/03/2003 onwards, new documents are classified according to the ECLA Reform approach, i.e. "invention information" is identified with classification symbols, e.g. [G07B 1/00](#), while "additional information" is identified with Indexing Code symbols, e.g. [G07B 1/00](#).

G07B 1/00

Machines for printing and issuing tickets (printing mechanisms per se [B41](#); output mechanisms of digital computers [G06C 11/00](#))

Definition statement

This place covers:

Ticket printers dedicated to tickets.

References**Limiting references**

This place does not cover:

Printing mechanisms per se; Type-printers	B41J
Output mechanisms of digital computers	G06C 11/00

Special rules of classification

This group contains all mechanical aspect of the machine. For computer implemented ticket printing and issuing system, see [G07B 15/00](#).

G07B 1/02

employing selectable printing plates

Definition statement

This place covers:

Ticket printers comprising pre-defined printing plates (heads), e.g. "valid", "void".

G07B 1/04

wherein the plates are inserted

Definition statement

This place covers:

Ticket printers comprising pre-defined removable printing plates (head).

G07B 1/06

without selectable printing plates

Definition statement

This place covers:

Ticket printers comprising individual printing heads, e.g. numbers or letters turning on rollers.

G07B 1/08**portable****Definition statement***This place covers:*

The ticket printers are portable.

G07B 3/00**Machines for issuing preprinted tickets****Definition statement***This place covers:*

the printing of tickets which are already pre-printed, meaning the ticket "data carrier" is already pre-printed with some information before storage in the ticket printer.

G07B 3/02**from stock in wound strip form****Definition statement***This place covers:*

Tickets paper supply in wound strip form.

G07B 3/04**from a stack****Definition statement***This place covers:*

Ticket paper supply from a stack.

G07B 5/00**Details of, or auxiliary devices for, ticket-issuing machines (for validating inserted tickets [G07B 11/02](#))****Definition statement***This place covers:*

The details of the machines for printing and issuing tickets.

References**Limiting references***This place does not cover:*

Validation of inserted tickets	G07B 11/02
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G07B 5/02

for cutting-off or separating tickets

Definition statement

This place covers:

Means for separating tickets in the machine (e.g.. cutter).

G07B 5/04

for recording or registering tickets issued

Definition statement

This place covers:

Means for recording or registering the issued tickets (e.g. storage means).

G07B 5/06

for preventing fraudulent operation

Definition statement

This place covers:

Means for preventing unwanted operation (e.g.. preventing from being pulled out or printing an authorization mark).

G07B 5/08

for avoiding incorrect action of the machine

Definition statement

This place covers:

Means for monitoring and avoiding incorrect action (e.g.. anti-jam, or testing printed ticket).

G07B 5/10

indicating when ticket supply is exhausted

Definition statement

This place covers:

Means for indicating exhausted ticket supply (e.g. marking paper or paper sensor).

G07B 5/12

allowing manual writing on the tickets

Definition statement

This place covers:

Specific tickets permitting additional manual writing on the tickets.

G07B 7/00**Holders providing direct manual access to the tickets****Definition statement**

This place covers:

Holders for tickets with dispensing means for manual access to the tickets.

G07B 9/00**Ticket punches (perforating pliers [B26F 1/36](#); marking record carriers in digital fashion by punching [G06K 1/02](#))****Definition statement**

This place covers:

Devices for punching tickets in order to only make a hole (basic validation).

References**Informative references**

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

Portable ticket punches	G07B 9/02
Apparatus for validating issued tickets by perforation	G07B 11/05
Marking record carriers in digital fashion by punching	G06K 1/02

G07B 9/02**Toy ticket-punches****Definition statement**

This place covers:

Portable ticket punch apparatuses (e.g.. for punching tickets before entering an attraction or selection on lottery ticket).

References**Informative references**

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

Perforating pliers or handheld punching	B26F 1/36
Marking record carriers in digital fashion by punching	G06K 1/02

G07B 11/00**Apparatus for validating or cancelling issued tickets****Definition statement**

This place covers:

Apparatus for the validation or cancellation of issued ticket; for example in public transports or gaming tickets.

G07B 11/02**for validating inserted tickets****Definition statement**

This place covers:

The devices for "validating" or "cancelling" already issued tickets, for example by printing a "marking" on the ticket or by "cutting off" a part of the ticket. The ticket can be a ticket for accessing an event, public transportation or lottery tickets for example.

G07B 11/03**by printing****Definition statement**

This place covers:

Apparatus for validation of the tickets by printing some marking (e.g.. identification or date/time).

G07B 11/05**by perforating****Definition statement**

This place covers:

Apparatus for validation of tickets for validation by insertion in a slot and perforation.

G07B 11/07**by separating part of ticket****Definition statement**

This place covers:

The device comprises means for separating a part of the ticket in order to validate the ticket.

G07B 11/09**combined with receptacle for separated part of ticket (refuse receptacles in general [B65F 1/00](#))****Definition statement**

This place covers:

The device comprises means for separating a part of the ticket in order to validate the ticket.

References

Informative references

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

Refuse receptacle in general	B65F 1/00
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G07B 11/11

for cancelling tickets

Definition statement

This place covers:

The device comprises means for cancelling the tickets (e.g.. by printing, perforating, cutting or other means).

G07B 13/00

Taximeters (measuring distance travelled [G01C](#); measuring time [G04](#))

Definition statement

This place covers:

Taximeters in general.

References

Informative references

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

Measuring distance travelled	G01C
Measuring time	G04

G07B 13/005

{operating mechanically}

Definition statement

This place covers:

Devices comprising mechanical or electromechanical means for operation of the taximeter.

G07B 13/02

Details; Accessories

Definition statement

This place covers:

The details and/or accessories of the taximeters (e.g. connectors, etc).

G07B 13/04**for indicating fare or state of hire****Definition statement***This place covers:*

Means for indicating price to be paid and/or fare (e.g. display means).

G07B 13/045**{with indicating means on the outside of the vehicle}****Definition statement***This place covers:*

Means for indicating outside vehicle if taxi is occupied and/or fare.

G07B 13/06**Driving arrangements****Definition statement***This place covers:*

Means for obtaining distance travelled and used by the meter for calculation.

G07B 13/08**Tariff-changing arrangements****Definition statement***This place covers:*

Means for changing tariff, e.g. push-buttons or remotely by downloading new data.

G07B 13/10**automatically actuated****Definition statement***This place covers:*

Means for automatically changing tariff, e.g. based on calendar, time or location with GPS.

G07B 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](#))****Definition statement***This place covers:*

- Electronic tickets for accessing events

- Access with payment with or without ticket
- Systems for reserving, ordering, loading and using access tickets
- Check-in (in airports)
- Baggage handling system
- Management of fleet of vehicles
- Vehicle rental system
- Car sharing
- Vehicle infringement control, per se
- Car rental systems
- Systems for reserving and using access tickets, e.g. check-in systems

References

Limiting references

This place does not cover:

Handling of coins or valuable papers	G07D
Mechanisms for vending or hiring articles or services	G07F 7/00
Coin-freed apparatus for hiring articles other than vehicles	G07F 17/00

Informative references

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

Airport related systems	B64F 1/30 , B64F 1/32 , B64F 1/366
Reservation systems	G06Q 10/02
Payment architectures, schemes or protocols	G06Q 20/00
Tickets, per se	G07F 17/42

Special rules of classification

Tickets for public transportation without reference to time or distance travelled have to be classified in main group ([G07B 15/00](#)).

Tickets for public transportation based on time or distance travelled have to be classified in [G07B 15/02](#), e.g. the way the ticket is used.

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](#).

G07B 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](#)})

Definition statement

This place covers:

- public transportation payment based on the travelled journey; and

- parking payment based on the parking time (parking reservation and parking management systems, parking ticket enforcement systems, parking meters for a plurality of parking spaces...).

References

Limiting references

This place does not cover:

Taximeter	G07B 13/00
Car rental systems per se	G07B 15/00
Arrangements for road pricing or congestion charging of vehicles or vehicle users, e.g. automatic toll systems	G07B 15/06
Parking meters without payment means installed inside vehicles	G07C 1/30
Parking meters, per se (for one parking meter)	G07F 17/24

Informative references

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

Vending services in function of time	G07F 7/00
Machines for vending or hiring services paid by card	G07F 7/0866
Availability of parking spaces	G08G 1/14

Special rules of classification

Toll Payment system have to be classified in [G07B 15/06](#) .

Taximeter have to be classified in [G07B 13/00](#).

Parking meters installed inside vehicle have to be classified in [G07C 1/30](#).

Car rental systems, per se, have to be classified in [G07B 15/00](#).

G07B 15/04

comprising devices to free a barrier, turnstile, or the like {(turnstile with registering means [G07C 9/02](#); coin-freed aspects [G07F 17/00](#))}

Definition statement

This place covers:

The person or vehicle has to free a fence (e.g.. turnstile, barrier, door).

References

Limiting references

This place does not cover:

Turnstiles with registering means	G07C 9/02
Coin-freed aspects	G07F 17/00

Informative references

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

Mechanisms for vending or hiring articles or services	G07F 7/00
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Special rules of classification

Toll Payment system with barrier have to be classified in [G07B 15/04](#) .

G07B 15/06**Arrangements for road pricing or congestion charging of vehicles or vehicle users, e.g. automatic toll systems****Definition statement**

This place 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 generated is then used to determine a charge to be paid.

This group covers means for paying and using toll roads including:

- tollbooths
- kiosks for pre-payment
- use GPS location
- cameras for recognizing number plate or ID.

References**Informative references**

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

Traffic control systems for road vehicles	G08G 1/00
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G07B 15/063**{using wireless information transmission between the vehicle and a fixed station (identification of vehicles [G08G](#))}****Definition statement**

This place covers:

Every wireless communication between the vehicle and a fixed station for use of toll road, which can be with a central station or local beacons (e.g.. wireless communication with toll booth).

References**Informative references**

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

Identification of vehicles	G08G , G08G 1/017
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G07B 15/066**{being coin-operated}****Definition statement***This place covers:*

Means for the payment of toll roads using coins, e.g. toll booths with coins collector.

References**Limiting references***This place does not cover:*

Handling coins or paper currency	G07D
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Special rules of classificationPayment means using cards (credit cards) have to classified in [G07B 15/06](#).**G07B 17/00****Franking apparatus (printing aspects [B41](#))****Definition statement***This place covers:*

Apparatus for franking mail items.

References**Limiting references***This place does not cover:*

Postal sorting	B07C
Type printers, selective printing mechanisms e.g. ink-jet printers, thermal printers	B41J
Coin-freed apparatus for franking	G06F 17/26
Systems and methods specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes	G06Q

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

Postal sorting	B07C
Printing aspects: Type printers, selective printing mechanisms e.g. ink-jet printers, thermal printers	B41J
Handling sheets	B65H
Systems and methods specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes	G06Q

Special rules of classification

Use of Indexing Codes:

Sub-aspects of subclasses are classified with [G07B 17/00](#) Indexing Codes.

Additional aspects are classified by corresponding Indexing Codes.

Each document is classified in principle with one subclass corresponding to the main aspect and optionally several Indexing Codes.

G07B 17/00008

{operated by portable carriers, e.g. for inputting credit or information}

Special rules of classification

Not to be used anymore.

Replaced by Indexing Code [G07B 2017/00177](#).

G07B 17/00016

{Relations between apparatus, e.g. franking machine at customer or apparatus at post office, in a franking system}

Definition statement

This place covers:

Relations between apparatuses in a franking system.

G07B 17/00024

{Physical or organizational aspects of franking systems}

Definition statement

This place covers:

Physical or organisation aspects of franking systems (determining the location of an apparatus, determining the location of mail pieces outside apparatus, i.e. tracking of mail pieces, software architecture, e.g. client/server,...).

G07B 17/0008

{Communication details outside or between apparatus (coin-freed apparatus for franking per se [G07F 17/26](#))}

Definition statement

This place covers:

Communication details outside or between apparatus (landlines, wireless, LAN, Internet, for sending information from central location, e.g. for updating rates or software, for sending information from a franking apparatus, e.g. for verifying accounting, for sending information from a portable device, e.g. card or PCMCIA,...).

References

Limiting references

This place does not cover:

Coin-freed apparatus for franking per se	G07F 17/26
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 19/20

Informative references

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

Electric communication technique	H04
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G07B 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](#))}

Definition statement

This place covers:

Details internally of apparatus in a franking system.

The apparatus can be a local device or a distant server.

References

Informative references

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

Digital data processing	G06F
System and methods specially adapted for administrative purposes	G06Q 10/00
Payment schemes	G06Q 20/00
Systems and methods specially adapted for Post and telecommunication	G06Q 50/32
Coin-freed apparatus for franking per se	G07F 17/26

G07B 17/00193

{Constructional details of apparatus in a franking system}

Definition statement

This place covers:

Constructional details of apparatus in a franking system (open franking system, i.e. the printer is not dedicated to franking only, e.g. personal computer, mailbox, i.e. container for mail, portable franking apparatus, i.e. the whole franking apparatus, not parts alone, vending machine or POS (Point of sale) apparatus, housing, e.g. lock or hardened casing, modular design, storage of e.g. ribbon, electronic hardware aspects, e.g. types of circuits used, man-machine interface on the apparatus, ...).

G07B 17/00314

{Communication within apparatus, personal computer [PC] system, or server, e.g. between printhead and central unit in a franking machine}

Definition statement

This place covers:

Communication aspects within franking apparatus (communication between components, modules, parts, e.g. printer, keyboard, conveyor or central unit, communication with software components, error detection or handling, power handling, setting of date,...).

G07B 17/00362

{Calculation or computing within apparatus, e.g. calculation of postage value}

Definition statement

This place covers:

Calculation or computing within apparatus (calculation of postage value, calculation of different sending options, currency calculation, memory organisation, redundant storage, software organisation, special accounting procedures,...).

References**Limiting references**

This place does not cover:

Cryptography or similar procedures in a franking system	G07B 17/00733
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G07B 17/00435

{Details specific to central, non-customer apparatus, e.g. servers at post office or vendor}

Definition statement

This place covers:

Details specific to central, non-customer apparatus, e.g. servers at post office or vendor (for verification of mail pieces by checking databases,...).

G07B 17/00459

{Details relating to mailpieces in a franking system}

Definition statement

This place covers:

Details relating to mail pieces in a franking system.

G07B 17/00467**{Transporting mailpieces (postal sorting [B07C](#))}****Definition statement***This place covers:*

Transporting mail pieces in a franking apparatus (sorting mail pieces, e.g. to get reduced postal rates, batch processing of mail pieces, mail/envelope/insert handling system, e.g. mechanical details or weight optimisation, measures for preventing or handling mailpieces stoppages, e.g. paper jam,...).

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

Postal sorting	B07C
Devices for inserting documents into envelopes	B43M 3/00
Devices for closing envelopes	B43M 5/00
Handling sheets	B65H

G07B 17/00508**{Printing or attaching on mailpieces (printing mechanisms [B41J](#); security printing [B41M 3/14](#); marking methods [B41M 5/00](#); inks [C09D 11/00](#); record carriers with at least a part designed to carry digital markings [G06K 19/00](#))}****Definition statement***This place covers:*

Printing or attaching on mailpieces in a franking apparatus (details of printing apparatus, e.g. printheads, ensuring quality of print, details of printed item, e.g. code, address, advert or logo, attaching item on mail piece, e.g. label or circuit, special printing techniques, e.g. interlacing, separating fixed and variable parts, special inks, e.g. fluorescent,...).

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

Type printers, selective printing mechanisms	B41J
Security printing	B41M 3/14
Marking methods	B41M 5/00
Inks	C09D 11/00
Record carriers with at least a part designed to carry digital markings	G06K 19/00

G07B 17/00661

{Sensing or measuring mailpieces (weighing [G01G 19/00](#); methods or arrangements for reading or recognising printed or written characters or for recognising patterns [G06K 9/00](#))}

Definition statement

This place covers:

Sensing or measuring mail pieces in a franking apparatus (sensing position of mail piece, measuring the dimensions of mail piece, measuring the speed of mail pieces inside apparatus, measuring the weight of mail pieces, scanning or imaging mail pieces, reading barcodes or symbols,...).

References**Informative references**

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

Weighing	G01G 19/00
Methods or arrangements for reading or recognising printed or written characters or for recognising patterns	G06K 9/00

G07B 17/00733

{Cryptography or similar special procedures in a franking system}

Definition statement

This place covers:

Cryptography or similar special procedures in a franking system (specific cryptography algorithms, time dependency, e.g. timestamps, validity time, continuous communication, including postal data or personal data, i.e. biometrics, key management, passwords, compression techniques, error handling, e.g. EDC (Error Detection Codes), cryptographic modules, e.g. PSD (Postal Security Device),...).

References**Informative references**

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

Random or pseudo-random generators	G06F 7/58
Error detection and error correction	G06F 11/00
Security arrangements for protecting computers or computer systems against unauthorised activity	G06F 21/00
Methods or arrangements for reading or recognising printed or written characters or for recognising patterns	G06K 9/00
Record carriers with conductive marks and special arrangements for circuits, e.g. for protecting identification code in memory	G06K 19/073
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
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 7/00

Circuits generating pulses having a predetermined statistical distribution	H03K 3/84
Coding, decoding or code conversion, for error detection or error correction	H03M 13/00
Arrangements for secret or secure communication	H04L 9/00

Special rules of classification

Not necessarily standard mathematical cryptography.

Glossary of terms

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

PSD	Postal Security Device
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G07B 17/00975

{using mechanical accounting means}

Definition statement

This place covers:

Franking apparatus using mechanical accounting means.

G07B 17/00983

{with means for resetting the monetary value of the accounting means}

Special rules of classification

Not to be used anymore.

Replaced by subgroup [G07B 17/0008](#) and Indexing Code [G07B 2017/00153](#).

G07B 17/00991

{from a central point, e.g. post office}

Special rules of classification

Not to be used anymore.

G07B 17/02

with means for computing or counting {([G07B 17/00975](#) takes precedence)}

References

Limiting references

This place does not cover:

Franking apparatus using mechanical accounting means	G07B 17/00975
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Special rules of classification

Not to be used anymore.

G07B 17/04

with means for avoiding misuse

Special rules of classification

Not to be used anymore.