

SECTION G — PHYSICS

G07 CHECKING-DEVICES

G07B TICKET-ISSUING APPARATUS; TAXIMETERS; ARRANGEMENTS OR APPARATUS FOR COLLECTING FARES, TOLLS OR ENTRANCE FEES AT ONE OR MORE CONTROL POINTS; FRANKING APPARATUS

Subclass index

MACHINES FOR PRINTING OR ISSUING TICKETS; DETAILS THEREOF.....	1/00, 3/00, 5/00
OTHER APPARATUS OR SYSTEMS CONCERNING TICKETS	
Holders; punches; validating; cancelling.....	7/00, 9/00, 11/00
TAXIMETERS.....	13/00
ARRANGEMENTS OR APPARATUS FOR COLLECTING FARES, TOLLS OR ENTRANCE FEES AT ONE OR MORE CONTROL POINTS.....	15/00
FRANKING APPARATUS.....	17/00

1/00	Machines for printing and issuing tickets	13/10	• • • automatically actuated
1/02	• employing selectable printing plates		
1/04	• • wherein the plates are inserted		
1/06	• without selectable 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	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 <u>per se</u> G07F 17/24) [1, 2011.01]
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	15/04	• • comprising devices to free a barrier, turnstile, or the like (turnstiles with registering means G07C 9/02)
9/00	Ticket punches (punching or perforating pliers B26F 1/36)	15/06	• Arrangements for road pricing or congestion charging of vehicles or vehicle users, e.g. automatic toll systems [2011.01]
9/02	• Toy ticket-punches		
11/00	Apparatus for validating or cancelling issued tickets [2]		Note(s) [2011.01] 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 generated is then used to determine a charge to be paid.
11/02	• for validating inserted tickets		
11/03	• • by printing [2]		
11/05	• • by perforating [2]		
11/07	• • by separating part of ticket [2]		
11/09	• • • combined with receptacle for separated part of ticket [2]		
11/11	• for cancelling tickets [2]		
13/00	Taximeters	17/00	Franking apparatus
13/02	• Details; Accessories	17/02	• with means for computing or counting
13/04	• • for indicating fare or state of hire	17/04	• with means for avoiding misuse
13/06	• • Driving arrangements		
13/08	• • Tariff-changing arrangements		

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, e.g. finger-printing, foot-printing, 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)

Subclass index

REGISTERING TIME OF EVENTS OR ELAPSED TIME.....	1/00
REGISTERING THE WORKING OF MACHINES; OF VEHICLES; DETAILS THEREOF.....	3/00, 5/00, 7/00
INDIVIDUAL ENTRY OR EXIT REGISTERS.....	9/00
CHECKING APPARATUS NOT PROVIDED FOR ELSEWHERE.....	11/00
VOTING APPARATUS; GENERATING RANDOM NUMBERS, LOTTERY APPARATUS.....	13/00, 15/00

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)	3/02	• Registering or indicating working or idle time only
	Note(s)	3/04	• • using counting means or digital clocks
	Groups G07C 1/20-G07C 1/32 take precedence over groups G07C 1/02-G07C 1/10.	3/06	• • in graphical form
1/02	• not involving the registering, indicating, or recording of other data	3/08	• Registering or indicating the production of the machine either with or without registering working or idle time
1/04	• • wherein the time is indicated in figures	3/10	• • using counting means
1/06	• • • with apparatus adapted for use with individual cards	3/12	• • in graphical form
1/08	• • wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time	3/14	• Quality control systems
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 class G01, dependent on the variable)	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; apparatus forming part of taximeters G07B)
1/12	• • wherein the time is indicated in figures	5/02	• Registering or indicating driving, working, idle, or waiting time only
1/14	• • • with apparatus adapted for use with individual cards	5/04	• • using counting means or digital clocks
1/16	• • wherein the time is indicated by marking an element, e.g. a card or tape, in a position determined by the time	5/06	• • in graphical form
1/18	• • • with apparatus adapted for use with individual cards	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
1/20	• Checking timed patrols, e.g. of watchman	5/10	• • using counting means or digital clocks
1/22	• in connection with sports or games	5/12	• • in graphical form
1/24	• Race time-recorders (race-finish cameras G03B 41/00)	7/00	Details or accessories common to the registering or indicating apparatus of groups G07C 3/00 and G07C 5/00
1/26	• • Pigeon-timing or like equipment	9/00	Individual entry or exit registers
1/28	• • Indicating playing time	9/02	• Turnstiles with registering means (coin-freed aspects G07F)
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)	11/00	Arrangements, systems, or apparatus for checking, e.g. the occurrence of a condition, not provided for elsewhere (for checking lottos or bingo games A63F 3/06; signalling or alarm arrangements G08B)
1/32	• Time-recording locks (locks giving indication of unauthorised unlocking E05B 39/00)	13/00	Voting apparatus
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 <u>per se</u> , indicating undesired or abnormal working conditions G08B)	13/02	• Ballot boxes
		15/00	Generating random numbers; Lottery apparatus (digital computer arrangements for generating random or pseudo-random numbers G06F 7/58; generating electric pulses at random intervals H03K 3/84) [3]

G07D HANDLING OF COINS OR OF PAPER CURRENCY OR SIMILAR VALUABLE PAPERS, e.g. TESTING, SORTING BY DENOMINATIONS, COUNTING, DISPENSING, CHANGING OR DEPOSITING [2]

Note(s)

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

- "coins" also covers tokens of similar nature;
- "paper currency or similar valuable papers" covers banknotes, bills, cheques, vouchers, securities, bonds or the like.

1/00 Coin dispensers

- 1/02 • giving change
- 1/04 • • dispensing change equal to a sum deposited
- 1/06 • • dispensing the difference between a sum paid and a sum charged
- 1/08 • • hand actuated

3/00 Sorting a mixed bulk of coins into denominations [1, 7]

- 3/02 • Sorting coins by means of graded apertures
- 3/04 • • arranged on an inclined rail
- 3/06 • • arranged along a circular path
- 3/08 • • arranged on a helix
- 3/10 • • provided by sieves arranged in series
- 3/12 • Sorting coins by means of stepped deflectors
- 3/14 • Apparatus driven under control of coin-sensing elements
- 3/16 • in combination with coin-counting

5/00 Testing specially adapted to determine the identity or genuineness of coins, e.g. for segregating coins which are unacceptable or alien to a currency [1, 7]

Note(s)

In groups G07D 5/02-G07D 5/10, in the absence of an indication to the contrary, classification is made in the last appropriate place.

- 5/02 • Testing the dimensions, e.g. thickness, diameter; Testing the deformation [3]
- 5/04 • Testing the weight [3]
- 5/06 • Testing the hardness or elasticity [3]
- 5/08 • Testing the magnetic or electric properties [3]
- 5/10 • Testing the rim, e.g. the milling of the rim [3]

7/00 Testing specially adapted to determine the identity or genuineness of paper currency or similar valuable papers, e.g. for segregating those which are unacceptable or alien to a currency [2]

Note(s)

Groups G07D 7/16-G07D 7/20 take precedence over groups G07D 7/02-G07D 7/14

- 7/02 • using electric means (G07D 7/04, G07D 7/06 take precedence) [7]
- 7/04 • using magnetic means, e.g. detection of magnetic imprint [7]
- 7/06 • using wave or particle radiation [7]
- 7/08 • • Acoustic waves [7]
- 7/10 • • Microwaves [7]
- 7/12 • • Visible light, infra-red or ultra-violet radiation [7]
- 7/14 • using chemical means [7]
- 7/16 • Testing the dimensions [7]
- 7/18 • Testing the stiffness [7]
- 7/20 • Testing patterns thereon [7]

9/00 Counting coins (in combination with coin-sorting G07D 3/16); Handling of coins not provided for in the other groups of this subclass

- 9/02 • Change trays
- 9/04 • Hand- or motor-driven devices for counting coins
- 9/06 • Devices for stacking or otherwise arranging coins on a support, e.g. apertured plate for use in counting coins

11/00 Devices accepting coins or paper currency, e.g. depositing machines (apparatus freed or actuated by coins or the like G07F; apparatus freed or actuated by paper currency G07F 7/04; complete banking systems G07F 19/00) [5]

13/00 Handling of coins or of paper currency or similar valuable papers, characterised by a combination of mechanisms not covered by a single one of groups G07D 1/00-G07D 11/00 [5]

G07F COIN-FREED OR LIKE APPARATUS (coin sorting G07D 3/00; coin testing G07D 5/00) [1, 7]

Note(s)

1. This subclass does not cover constructions or details of apparatus which includes, or is combined with, coin-actuated mechanisms but is not specially adapted or modified for use therewith. Such constructions or details are covered by the relevant subclass for the particular apparatus.
2. In this subclass, the following term is used with the meaning indicated:
 - "coins" covers also tokens or the like.

Subclass index

ARRANGEMENTS OR MECHANISMS IN GENERAL

Coin inlet; coin actuation; others.....1/00, 5/00, 7/00

APPARATUS CHARACTERISED BY THE APPLICATION

Dispensing; metering; hiring.....11/00, 13/00, 15/00, 17/00

COMPLETE BANKING SYSTEMS.....19/00

1/00	Coin inlet arrangements; Coins specially adapted to operate coin-freed mechanisms	11/04	• • in which magazines the articles are stored one vertically above the other
1/02	• Coin slots	11/06	• • • supported individually on pivotally-mounted flaps or shelves
1/04	• Coin chutes	11/08	• • • arranged in two columns in staggered relationship
1/06	• Coins specially adapted to operate coin-freed mechanisms	11/10	• • • two or more magazines having a common delivery chute
5/00	Coin-actuated mechanisms; Interlocks	11/12	• • • with means for automatically changing to reserve stacks
5/02	• actuated mechanically by coins, e.g. by a single coin	11/14	• • • with means for raising the stack of articles to permit delivery of the topmost
5/04	• • wherein two or more coins of the same denomination are required for each transaction	11/16	• • • Delivery means
5/06	• • wherein two or more coins of different denominations are required for each transaction	11/18	• • • • Recessed drawers
5/08	• • wherein the use of two or more coins or an equivalent single coin is optional for each transaction; wherein the use of two or more coins or an alternative equivalent combination of coins is optional for each transaction	11/20	• • • • Pushers actuated directly by hand
5/10	• actuated electrically by the coin, e.g. by a single coin	11/22	• • • • Pushers actuated indirectly by hand, e.g. through cranks or levers
5/12	• • wherein two or more coins of the same denomination are required for each transaction	11/24	• • • • Rotary or oscillatory members
5/14	• • wherein two or more coins of different denominations are required for each transaction	11/26	• • • • Endless bands
5/16	• • wherein the use of two or more coins or an equivalent single coin is optional for each transaction; wherein the use of two or more coins or an alternative equivalent combination of coins is optional for each transaction	11/28	• • in which the magazines are inclined
5/18	• specially adapted for controlling several coin-freed apparatus from one place	11/30	• • • two or more magazines having independent delivery
5/20	• specially adapted for registering coins as credit, e.g. mechanically actuated	11/32	• • • two or more magazines having a common delivery chute
5/22	• • electrically actuated	11/34	• • in which the magazines are of zig-zag form
5/24	• with change-giving	11/36	• • in which the magazines are of helical or spiral form
5/26	• Interlocks, e.g. for locking the doors of compartments other than that to be used	11/38	• • in which the magazines are horizontal
7/00	Mechanisms actuated by objects other than coins to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus [2]	11/40	• • • the articles being delivered by hand-operated means
7/02	• by keys or other credit registering devices [2]	11/42	• • • the articles being delivered by motor-driven means
7/04	• by paper currency	11/44	• • in which magazines the articles are stored in bulk
7/06	• by returnable containers, e.g. bottles	11/46	• from movable storage containers or supports
7/08	• by coded identity card or credit card [2]	11/48	• • the storage containers or supports, e.g. magazine, being pivotally mounted
7/10	• • together with a coded signal [2]	11/50	• • the storage containers or supports being rotatably mounted
7/12	• • Card verification [5]	11/52	• • • about horizontal axes
9/00	Details other than those peculiar to special kinds or types of apparatus (coin inlet arrangements G07F 1/00; coin-actuated mechanisms, interlocks G07F 5/00)	11/54	• • • about vertical axes
9/02	• Devices for alarm or indication, e.g. when empty; Advertising arrangements in coin-freed apparatus (alarms or warning devices indicating the interruption of flow to be metered G07F 15/10)	11/56	• • • • the storage containers or supports both rotating and moving axially
9/04	• Means for returning surplus or unused coins	11/58	• • the articles being supported on or by endless belts or like conveyers
9/06	• Coin boxes	11/60	• • the storage containers or supports being rectilinearly movable
9/08	• Counting total of coins inserted	11/62	• in which the articles are stored in compartments in fixed receptacles
9/10	• Casings, e.g. with means for heating or cooling	11/64	• in which the articles are individually suspended from stationary supports
11/00	Coin-freed apparatus for dispensing, or the like, discrete articles	11/66	• in which the articles are dispensed by cutting from a mass
11/02	• from non-movable magazines	11/68	• in which the articles are torn or severed from strips or sheets
		11/70	• in which the articles are formed in the apparatus from components, blanks, or material constituents
		11/72	• Auxiliary equipments, e.g. for lighting cigars, opening bottles
		13/00	Coin-freed apparatus for controlling dispensing of fluids, semiliquids or granular material from reservoirs

- 13/02 • by volume
- 13/04 • by weight
- 13/06 • with selective dispensing of different fluids or materials or mixtures thereof
- 13/08 • in the form of a spray
- 13/10 • with associated dispensing of containers, e.g. cups or other articles
- 15/00 Coin-free apparatus with meter-controlled dispensing of liquid, gas, or electricity**
- 15/02 • in which the quantity mechanism is set forward by hand after insertion of a coin
- 15/04 • in which the quantity mechanism is set forward automatically by the insertion of a coin
- 15/06 • with means for prepaying basic charges, e.g. rent for meters
- 15/08 • with means for varying the tariff or changing the price
- 15/10 • with alarm or warning devices, e.g. indicating the interrupting of the supply
- 15/12 • in which metering is on a time basis
- 17/00 Coin-free apparatus for hiring articles; Coin-free facilities or services**
- 17/02 • for optical devices, e.g. telescopes
- 17/04 • for anthropometrical measurements such as weight, height, strength
- 17/06 • for inflating-pumps
- 17/08 • for seats or footstools
- 17/10 • for means for safe-keeping of property, left temporarily, e.g. by fastening the property
- 17/12 • • comprising lockable containers, e.g. for accepting clothes to be cleaned
- 17/14 • for fastenings for doors (of containers for safe-keeping G07F 17/12); for turnstiles
- 17/16 • for devices exhibiting advertisements, announcements, pictures, or the like
- 17/18 • for washing or drying persons
- 17/20 • for washing or drying articles, e.g. clothes, motor cars
- 17/22 • for cleaning and polishing boots or shoes
- 17/24 • for parking meters
- 17/26 • for printing, stamping, franking, typing, or teleprinting apparatus (ticket printing or like apparatus G07F 17/42)
- 17/28 • for radio apparatus
- 17/30 • for musical instruments
- 17/32 • for games, toys, sports, or amusements
- 17/34 • • depending on the stopping of moving members, e.g. "fruit" machines
- 17/36 • • Age, character, or fortune telling apparatus
- 17/38 • • Ball games; Shooting apparatus
- 17/40 • for devices for accepting orders, advertisements, or the like
- 17/42 • for ticket printing or like apparatus
- 19/00 Complete banking systems; Coded card-free arrangements adapted for dispensing or receiving monies or the like and posting such transactions to existing accounts, e.g. automatic teller machines** (data processing equipment for bank accounting G06Q 40/02) [5]

G07G REGISTERING THE RECEIPT OF CASH, VALUABLES, OR TOKENS (digital computing in general G06C, G06F) [4]

- 1/00 Cash registers** (alarm indicators G07G 3/00)
- 1/01 • Details for indicating (displaying information in general G09F, G09G) [4]
- 1/06 • • with provision for the noting of the money to be paid [4]
- 1/08 • • with rotating drums which display the money entered [4]
- 1/10 • mechanically operated [4]
- 1/12 • electronically operated (digital data processing aspects G06Q 20/00) [4]
- 1/14 • • Systems including one or more distant stations co-operating with a central processing unit (data transmission in general H04L; telemetry systems for selectively calling a substation from a main station H04Q 9/00) [4]
- 3/00 Alarm indicators, e.g. bells**
- 5/00 Receipt-giving machines** (cash registers giving receipts G07G 1/00)