CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS
(NOTES omitted)

INSTRUMENTS

G07 CHECKING-DEVICES

G07F COIN-FREED OR LIKE APPARATUS (coin sorting G07D 3/00; coin testing G07D 5/00; {handling coins or paper currencies apart from payment activated apparatus G07D; payment architectures, schemes or protocols G06Q 20/00})

NOTES

1. This subclass <u>does not cover</u> 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 are used with the meaning indicated:
   - {"coin-freed" means "payment activated"}
   - "coins" covers also tokens or the like.

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	**Coin inlet arrangements; Coins specially adapted to operate coin-freed mechanisms**
1/02	. Coin slots
1/04	. Coin chutes
1/041	. . {with means, other than for testing currency, for dealing with inserted foreign matter, e.g. "stuffing", "stringing" or "salting"}
1/042	. . . {the foreign matter being a long flexible member attached to a coin}
1/043	. . . . {Cutting or trapping of the flexible member or the attached coin}
1/044	. . . . {Automatic detection of the flexible member}
1/045	. . . {the foreign matter being in the form of liquids}
1/046	. . {with means for dealing with jamming, e.g. by bent wires}
1/047	. . {with means for temporarily storing coins}
1/048	. . {with means for damping coin motion}
1/06	. Coins specially adapted to operate coin-freed mechanisms
5/00	**Coin-actuated mechanisms; Interlocks**
5/02	. actuated mechanically by coins, e.g. by a single coin
5/04	. . wherein two or more coins of the same denomination are required for each transaction
5/06	. . wherein two or more coins of different denominations are required for each transaction
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
5/10	. actuated electrically by the coin, e.g. by a single coin

5/12	. . wherein two or more coins of the same denomination are required for each transaction
5/14	. . wherein two or more coins of different denominations are required for each transaction
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
5/18	. specially adapted for controlling several coin-freed apparatus from one place
5/20	. specially adapted for registering coins as credit, e.g. mechanically actuated
5/22	. . electrically actuated
5/24	. with change-giving
5/26	. Interlocks, e.g. for locking the doors of compartments other than that to be used
7/00	**Mechanisms actuated by objects other than coins to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus**
7/005	. {Details or accessories}
7/02	. by keys or other credit registering devices
7/025	. . {by means, e.g. cards, providing billing information at the time of purchase, e.g. identification of seller or purchaser, quantity of goods delivered or to be delivered}
7/04	. by paper currency
7/06	. by returnable containers {, i.e. reverse vending systems in which a user is rewarded for returning a container that serves as a token of value}, e.g. bottles
7/0609	. . {by fluid containers, e.g. bottles, cups, gas containers}
7/0618	. . {by carts}

7/0627 . . . {in which the trolleys or carts are kept fixed or linked onto a rail or barrier}

7/0636 . . . {in which the trolleys or carts are kept in a restricted zone such as a coral-like enclosure, or are passing a gate before use is possible}

7/0645 . . . . {in which the trolleys or carts are kept in a box or container designed to transport or store a row of trolleys or carts as a whole}

7/0654 . . . {in which the lock functions according to a "pinching of the token" principle, i.e. the token is held between two members}

7/0663 . . . {Constructional details of the housing of the coin or token activated lock, or of mounting of the coin-lock on the trolley or cart}

7/0672 . . . {Special lock-activating tokens, serving as replacement of a payment or of a coin}

7/0681 . . . . {in which a card, pay-card or card-like object is used as the special token required to get permission or activate the lock to use the trolley or cart}

7/069 . . {by box-like containers, e.g. videocassettes, books}

7/08 . by coded identity card or credit card {or other personal identification means (without personal verification means G07F 7/02)}

7/0806 . . {Details of the card (record carriers per se G06K)}

7/0813 . . . {Specific details related to card security}

7/082 . . . . {Features insuring the integrity of the data on or in the card}

7/0826 . . . . {Embedded security module}

7/0833 . . . {Card having specific functional components}

7/084 . . . . {Additional components relating to data transfer and storing, e.g. error detection, self-diagnosis}

7/0846 . . . {On-card display means}

7/0853 . . . {On-card keyboard means}

7/086 . . {by passive credit-cards adapted therefor, e.g. constructive particularities to avoid counterfeiting, e.g. by inclusion of a physical or chemical security-layer (for security documents G07D 7/00; for the reading of record-carriers in general G06K 7/00; for the design of coded credit-cards G06K 19/10)}

7/0866 . . {by active credit-cards adapted therefor (G07F 7/1008 takes precedence)}

NOTES

1. Attention is drawn to the note after group G07F 7/1008.
2. The cards referred to in this group are transferable like regular cash money. They contain a monetary value represented by a coded number in a protected memory, to be loaded by cash payment or from account

7/0873 . . {Details of the card reader}

7/088 . . . {the card reader being part of the point of sale [POS] terminal or electronic cash register [ECR] itself}

7/0886 . . . . {the card reader being portable for interacting with a POS or ECR in realizing a payment transaction}

7/0893 . . . {the card reader reading the card in a contactless manner}

7/10 . . together with a coded signal {, e.g. in the form of personal identification information, like personal identification number [PIN] or biometric data}

7/1008 . . . {Active credit-cards provided with means to personalise their use, e.g. with PIN-introduction/comparison system}

NOTE

In this group, the term "active credit card" embraces any portable, self-contained device, provided with circuits enabling it to exchange data with a partner in order to conduct a transaction.

7/1016 . . . {Devices or methods for securing the PIN and other transaction-data, e.g. by encryption (arrangements for secret communication, see H04L 9/00)}

7/1025 . . . {Identification of user by a PIN code}

7/1033 . . . . {Details of the PIN pad}

7/1041 . . . . . {PIN input keyboard gets new key allocation at each use}

7/105 . . . . {Only a part of the PIN is required to be input}

7/1058 . . . . {PIN is checked locally}

7/1066 . . . . . {PIN data being compared to data on card}

7/1075 . . . . {PIN is checked remotely}

7/1083 . . . . {Counting of PIN attempts}

7/1091 . . . . {Use of an encrypted form of the PIN}

7/12 . . Card verification

7/122 . . . {Online card verification}

7/125 . . . {Offline card verification}

7/127 . . . {in which both online and offline card verification can take place}

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)

9/001 . {Interfacing with vending machines using mobile or wearable devices}

9/002 . {Vending machines being part of a centrally controlled network of vending machines}

9/003 . {displaying the inserted coins}

9/006 . {Details of the software used for the vending machines}

9/009 . {User recognition or proximity detection}

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)

9/023 . . {Arrangements for display, data presentation or advertising}

9/0235 . . . {the arrangements being full-front touchscreens}

9/026 . . {for alarm, monitoring and auditing in vending machines or means for indication, e.g. when empty}

9/04 . Means for returning surplus or unused coins

9/06 . Coin boxes

9/08 . Counting total of coins inserted

9/10 . Casings {or parts thereof}, e.g. with means for heating or cooling

9/105	. .	{Heating or cooling means, for temperature and humidity control, for the conditioning of articles and their storage (dispensers for food articles requiring a processing by temperature treatment or conditioning before they are ready for dispensing G07F 17/0064)}
11/00		**Coin-freed apparatus for dispensing, or the like, discrete articles**
11/004	.	{Restocking arrangements therefor}
11/005	.	{Special arrangements for insuring that only one single article may be dispensed at a time}
11/007	.	{wherein the storage and dispensing mechanism are configurable in relation to the physical or geometrical properties of the articles to be stored or dispensed}
11/02	.	from non-movable magazines
11/04	. .	in which magazines the articles are stored one vertically above the other
11/045	. . .	{for sheet shaped or pliable articles}
11/06	. . .	supported individually on pivotally-mounted flaps or shelves
11/08	. . .	arranged in two columns in staggered relationship
11/10	. . .	two or more magazines having a common delivery chute
11/12	. . .	with means for automatically changing to reserve stacks
11/14	. . .	with means for raising the stack of articles to permit delivery of the topmost
11/16	. . .	Delivery means
11/163	. . . .	{characterised by blocking access to the output bins}
11/165	. . . .	{using xyz-picker or multi-dimensional article picking arrangements}
11/1653	. . . . .	{the picking arrangements being collecting buckets}
11/1657	. . . . .	{the picking arrangements using suction}
11/18	. . . .	Recessed drawers
11/20	. . . .	Pushers actuated directly by hand
11/22	. . . .	Pushers actuated indirectly by hand, e.g. through cranks or levers
11/24	. . . .	Rotary or oscillatory members
11/26	. . . .	Endless bands
11/28	. .	in which the magazines are inclined
11/30	. . .	two or more magazines having independent delivery
11/32	. . .	two or magazines having a common delivery chute
11/34	. .	in which the magazines are of zig-zag form
11/36	. .	in which the magazines are of helical or spiral form
11/38	. .	in which the magazines are horizontal
11/40	. . .	the articles being delivered by hand-operated means
11/42	. . .	the articles being delivered by motor-driven means
11/44	. .	in which magazines the articles are stored in bulk
11/46	.	from movable storage containers or supports
11/48	. .	the storage containers or supports, e.g. magazine, being pivotally mounted
11/50	. .	the storage containers or supports being rotatably mounted
11/52	. . .	about horizontal axes

11/54	. . .	about vertical axes
11/56	. . . .	the storage containers or supports both rotating and moving axially
11/58	. .	the articles being supported on or by endless belts or like conveyors
11/60	. .	the storage containers or supports being rectilinearly movable
11/62	.	in which the articles are stored in compartments in fixed receptacles
11/64	.	in which the articles are individually suspended from stationary supports
11/66	.	in which the articles are dispensed by cutting from a mass
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 equipment, e.g. for lighting cigars, opening bottles
13/00		**Coin-freed apparatus for controlling dispensing or fluids, semiliquids or granular material from reservoirs**
13/02	.	by volume
13/025	. .	{wherein the volume is determined during delivery}
13/04	.	by weight
13/06	.	with selective dispensing of different fluids or materials or mixtures thereof
13/065	. .	{for drink preparation}
13/08	.	in the form of a spray
13/10	.	with associated dispensing of containers, e.g. cups or other articles
15/00		**Coin-freed apparatus with meter-controlled dispensing of liquid, gas or electricity**
15/001	.	{for gas}
15/003	.	{for electricity}
15/005	. .	{dispensed for the electrical charging of vehicles (electrical charging as such, B60L 50/00)}
15/006	. .	{dispensed for the electrical charging of other devices than vehicles}
15/008	. .	{Rewarding for providing delivery of electricity to the network}
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-freed apparatus for hiring articles; Coin-freed facilities or services**
17/0007	.	{for clockworks, e.g. alarm clocks, saving clocks}
17/0014	.	{for vending, access and use of specific services not covered anywhere else in G07F 17/00 (meter-controlled dispensing of liquid, gas or electricity G07F 15/00)}
17/0021	. .	{Access to services on a time-basis}

17/0028 . . . {Use of a wired telephone or public communication device (charging and metering the use of the telecommunication network H04M 17/02)}

17/0035 . . {Participation in a loyalty or discount scheme (data processing for shopping and discounts G06Q 30/00)}

17/0042 . {for hiring of objects}

17/005 . . {for the hiring of content carriers, e.g. of DVDs or CDs (reverse vending for box-like objects such as videocassettes G07F 7/069)}

17/0057 . . {for the hiring or rent of vehicles, e.g. cars, bicycles or wheelchairs (car rental G07B 15/00)}

17/0064 . {for processing of food articles (cooking vessels A47J 37/00)}

17/0071 . . {Food articles which need to be processed for dispensing in a cold condition, e.g. ice and ice cream}

17/0078 . . {Food articles which need to be processed for dispensing in a hot or cooked condition, e.g. popcorn, nuts}

17/0085 . . . {Food articles which for processing need cooking in a liquid, e.g. oil, water}

17/0092 . {for assembling and dispensing of pharmaceutical articles (medical dispensers for private use, A61J 7/00)}

17/02 . for optical devices, e.g. telescopes

17/04 . for anthropometrical measurements, such as weight, height, strength

17/045 . . {for weighing persons (weighing apparatus in general G07F 17/263)}

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

17/105 . . {for money boxes (for saving clocks G07F 17/0007)}

17/12 . . comprising lockable containers, e.g. for accepting clothes to be cleaned

17/13 . . . {the containers being a postal pick-up locker}

17/14 . for fastenings for doors (of containers for safe keeping G07F 17/12); for turnstiles

17/145 . . {for revolving doors or turnstiles}

17/16 . for devices exhibiting advertisements, announcements, pictures or the like

17/163 . . {for film projection apparatus}

17/166 . . {for calendars}

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

17/242 . . {provided with token dispensing devices}

17/244 . . {provided with means for retaining a vehicle}

17/246 . . {provided with vehicle proximity-detectors (detecting hidden masses, e.g. metal detectors, G01V, e.g. G01V 3/00; proximity switches per se H03K 17/00; traffic control systems G08G 1/00)}

17/248 . . {Housing construction (casings for coin-freed apparatus G07F 9/10)}

17/26 . for printing, stamping, franking, typing or teleprinting apparatus (ticket printing or the like apparatus G07F 17/42)

17/263 . . {for weighing devices (for personal weighing apparatus G07F 17/045)}

17/266 . . {for the use of a photocopier or printing device (photocopiers H04N 1/00)}

17/28 . for radio apparatus

17/30 . for musical instruments

17/305 . . {for record players}

17/32 . for games, toys, sports, or amusements

17/3202 . . {Hardware aspects of a gaming system, e.g. components, construction, architecture thereof}

17/3204 . . . {Player-machine interfaces}

17/3206 . . . . {Player sensing means, e.g. presence detection, biometrics}

17/3209 . . . . {Input means, e.g. buttons, touch screen}

17/3211 . . . . {Display means}

17/3213 . . . . . {Details of moving display elements, e.g. spinning reels, tumbling members}

17/3216 . . . {Construction aspects of a gaming system, e.g. housing, seats, ergonomic aspects}

17/3218 . . . . {wherein at least part of the system is portable}

17/322 . . . . {Casino tables, e.g. tables having integrated screens, chip detection means}

17/3223 . . . {Architectural aspects of a gaming system, e.g. internal configuration, master/slave, wireless communication}

17/3225 . . {Data transfer within a gaming system, e.g. data sent between gaming machines and users}

17/3227 . . . {Configuring a gaming machine, e.g. downloading personal settings, selecting working parameters}

17/323 . . . {wherein the player is informed, e.g. advertisements, odds, instructions}

17/3232 . . . {wherein the operator is informed}

17/3234 . . . . {about the performance of a gaming system, e.g. revenue, diagnosis of the gaming system}

17/3237 . . . . {about the players, e.g. profiling, responsible gaming, strategy/behavior of players, location of players}

17/3239 . . . . . {Tracking of individual players}

17/3241 . . {Security aspects of a gaming system, e.g. detecting cheating, device integrity, surveillance (computer security G06F 21/00)}

17/3244 . . {Payment aspects of a gaming system, e.g. payment schemes, setting payout ratio, bonus or consolation prizes}

17/3246 . . . {involving coins and/or banknotes}

17/3248 . . . {involving non-monetary media of fixed value, e.g. casino chips of fixed value}

17/3251 . . . {involving media of variable value, e.g. programmable cards, programmable tokens}

17/3253 . . . {involving articles, e.g. paying in bottles, paying out toys}

17/3255 . . . {Incentive, loyalty and/or promotion schemes, e.g. comps, gaming associated with a purchase, gaming funded by advertisements}

17/3258 . . . {Cumulative reward schemes, e.g. jackpots}

17/326 . . {Game play aspects of gaming systems}

17/3262 . . . {Player actions which determine the course of the game, e.g. selecting a prize to be won, outcome to be achieved, game to be played}

17/3265	. . . .	{Influencing the position of stopped moving members to achieve a winning arrangement, e.g. nudging, shuffling, holding}
17/3267	. . .	{Game outcomes which determine the course of the subsequent game, e.g. double or quits, free games, higher payouts, different new games}
17/3269	. . .	{Timing aspects of game play, e.g. blocking/halting the operation of a gaming machine}
17/3272	. . .	{Games involving multiple players}
17/3274	. . . .	{wherein the players cooperate, e.g. team-play}
17/3276	. . . .	{wherein the players compete, e.g. tournament}
17/3279	. . . . .	{wherein the competition is one-to-one, e.g. match}
17/3281	. . . .	{wherein game attributes are transferred between players, e.g. points, weapons, avatars}
17/3283	. . . .	{wherein the number of active machines is limited}
17/3286	. .	{Type of games}
17/3288	. . .	{Betting, e.g. on live events, bookmaking}
17/329	. . .	{Regular and instant lottery, e.g. electronic scratch cards}
17/3293	. . .	{Card games, e.g. poker, canasta, black jack}
17/3295	. . .	{Games involving skill, e.g. dexterity, memory, thinking}
17/3297	. . .	{Fairground games, e.g. Tivoli, coin pusher machines, cranes}
17/34	. .	depending on the stopping of moving members {in a mechanical slot machine}, 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 {, e.g. apparatus for dispensing of printed paper tickets or payment cards}
19/00		**Complete banking systems; Coded card-freed 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)
19/20	.	{Automatic teller machines [ATMs]}
19/201	. .	{Accessories of ATMs}
19/202	. .	{Depositing operations within ATMs (depositing in general G07D 11/00)}
19/203	. .	{Dispensing operations within ATMs (dispensing in general G07D 11/00)}
19/204	. .	{Loading of a stored value token using an ATM}
19/205	. .	{Housing aspects of ATMs}
19/2055	. . .	{Anti-skimming aspects at ATMs}
19/206	. .	{Software aspects at ATMs}
19/207	. .	{Surveillance aspects at ATMs}
19/208	. .	{Use of an ATM as a switch or hub}
19/209	. .	{Monitoring, auditing or diagnose of functioning of ATMs}
19/21	. .	{Retaining of the payment card by ATMs}
19/211	. .	{Software architecture within ATMs or in relation to the ATM network}