## 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 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 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.

<table>
<thead>
<tr>
<th>1/00</th>
<th>Coin inlet arrangements; Coins specially adapted to operate coin-freed mechanisms</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/02</td>
<td>Coin slots</td>
</tr>
<tr>
<td>1/04</td>
<td>Coin chutes</td>
</tr>
<tr>
<td>1/041</td>
<td>[with means, other than for testing currency, for dealing with inserted foreign matter, e.g. &quot;stuffing&quot;, &quot;stringing&quot; or &quot;salting&quot;]</td>
</tr>
<tr>
<td>1/042</td>
<td>[the foreign matter being a long flexible member attached to a coin]</td>
</tr>
<tr>
<td>1/043</td>
<td>[Cutting or trapping of the flexible member or the attached coin]</td>
</tr>
<tr>
<td>1/044</td>
<td>[Automatic detection of the flexible member]</td>
</tr>
<tr>
<td>1/045</td>
<td>[the foreign matter being in the form of liquids]</td>
</tr>
<tr>
<td>1/046</td>
<td>[with means for dealing with jamming, e.g. by bent wires]</td>
</tr>
<tr>
<td>1/047</td>
<td>[with means for temporarily storing coins]</td>
</tr>
<tr>
<td>1/048</td>
<td>[with means for damping coin motion]</td>
</tr>
<tr>
<td>1/06</td>
<td>Coins specially adapted to operate coin-freed mechanisms</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5/00</th>
<th>Coin-actuated mechanisms; Interlocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/02</td>
<td>actuated mechanically by coins, e.g. by a single coin</td>
</tr>
<tr>
<td>5/04</td>
<td>wherein two or more coins of the same denomination are required for each transaction</td>
</tr>
<tr>
<td>5/06</td>
<td>wherein two or more coins of different denominations are required for each transaction</td>
</tr>
<tr>
<td>5/08</td>
<td>wherein the use of two or more coins or an equivalent single coin is optional for each transaction</td>
</tr>
<tr>
<td>5/10</td>
<td>actuated electrically by the coin, e.g. by a single coin</td>
</tr>
</tbody>
</table>

| 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 |
| 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 |

<table>
<thead>
<tr>
<th>7/00</th>
<th>Mechanisms actuated by objects other than coins to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/005</td>
<td>[Details or accessories]</td>
</tr>
<tr>
<td>7/02</td>
<td>by keys or other credit registering devices</td>
</tr>
<tr>
<td>7/025</td>
<td>[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]</td>
</tr>
<tr>
<td>7/04</td>
<td>by paper currency</td>
</tr>
<tr>
<td>7/06</td>
<td>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</td>
</tr>
<tr>
<td>7/0609</td>
<td>[by fluid containers, e.g. bottles, cups, gas containers]</td>
</tr>
<tr>
<td>7/0618</td>
<td>[by carts]</td>
</tr>
</tbody>
</table>
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-carryers 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)

WARNING
Group G07F 9/00 is impacted by reclassification into groups G07F 9/001, G07F 9/002, and G07F 9/009.
All groups listed in this Warning should be considered in order to perform a complete search.

9/001 . . (Interfacing with vending machines using mobile or wearable devices)

WARNING
Group G07F 9/001 is incomplete pending reclassification of documents from groups G07F 9/00 and G07F 9/002.
Groups G07F 9/00, G07F 9/002, and G07F 9/001 should be considered in order to perform a complete search.
Group G07F

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

WARNING

Group G07F 9/002 is incomplete pending reclassification of documents from group G07F 9/00.

Group G07F 9/002 is also impacted by reclassification into group G07F 9/001.

Groups G07F 9/00, G07F 9/002, and G07F 9/001 should be considered in order to perform a complete search.

9/003. {Displaying the inserted coins}

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

9/009. {User recognition or proximity detection}

WARNING

Group G07F 9/009 is incomplete pending reclassification of documents from group G07F 9/00.

Groups G07F 9/00 and G07F 9/009 should be considered in order to perform a complete search.

9/02. Devices for alarm or indication, e.g. when empty; Advertising arrangements in coin-free 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}

WARNING

Group G07F 9/023 is impacted by reclassification into group G07F 9/0235.

Groups G07F 9/023 and G07F 9/0235 should be considered in order to perform a complete search.

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

WARNING

Group G07F 9/0235 is incomplete pending reclassification of documents from group G07F 9/023.

Groups G07F 9/023 and G07F 9/0235 should be considered in order to perform a complete search.

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

WARNING

Group G07F 11/00 is impacted by reclassification into group G07F 11/004.

Groups G07F 11/00 and G07F 11/004 should be considered in order to perform a complete search.

11/004. {Restocking arrangements therefor}

WARNING

Group G07F 11/004 is incomplete pending reclassification of documents from group G07F 11/00.

Groups G07F 11/00 and G07F 11/004 should be considered in order to perform a complete search.

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

WARNING

Group G07F 11/16 is impacted by reclassification into group G07F 11/163.

Groups G07F 11/16 and G07F 11/163 should be considered in order to perform a complete search.

11/163. {Characterised by blocking access to the output bins}

WARNING

Group G07F 11/163 is incomplete pending reclassification of documents from group G07F 11/16.

Groups G07F 11/16 and G07F 11/163 should be considered in order to perform a complete search.
11/165 . . . . {using xyz-picker or multi-dimensional article picking arrangements}

**WARNING**

Group G07F 11/165 is impacted by reclassification into groups G07F 11/1653 and G07F 11/1657.

Groups G07F 11/165, G07F 11/1653, and G07F 11/1657 should be considered in order to perform a complete search.

11/1653 . . . . . . . . . . (the picking arrangements being collecting buckets)

**WARNING**

Group G07F 11/1653 is incomplete pending reclassification of documents from group G07F 11/165.

Groups G07F 11/165 and G07F 11/1653 should be considered in order to perform a complete search.

11/1657 . . . . . . . . . . (the picking arrangements using suction)

**WARNING**

Group G07F 11/1657 is incomplete pending reclassification of documents from group G07F 11/165.

Groups G07F 11/165 and G07F 11/1657 should be considered in order to perform a complete search.

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 of 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 . . . for the electrical charging of vehicles (electrical charging as such, B60L 50/00)
15/006 . . . 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
for parking meters
for cleaning and polishing boots or shoes
for washing or drying articles, e.g. clothes, motor cars
for washing or drying persons
for devices exhibiting advertisements, announcements, pictures or the like
for devices exhibiting advertisements, device integrity, surveillance (computer security G06F 21/00)
for means for safe-keeping of property, left temporarily, e.g. by fastening the property
comprising lockable containers, e.g. for accepting clothes to be cleaned

**WARNING**

Group G07F 17/12 is impacted by reclassification into group G07F 17/13. Groups G07F 17/12 and G07F 17/13 should be considered in order to perform a complete search.

**WARNING**

Group G07F 17/13 is incomplete pending reclassification of documents from group G07F 17/12. Groups G07F 17/12 and G07F 17/13 should be considered in order to perform a complete search.
Incentive, loyalty and/or promotion schemes, e.g. comps, gaming associated with a purchase, gaming funded by advertisements

Cumulative reward schemes, e.g. jackpots

Game play aspects of gaming systems

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

Influencing the position of stopped moving members to achieve a winning arrangement, e.g. nudging, shuffling, holding

Game outcomes which determine the course of the subsequent game, e.g. double or quits, free games, higher payouts, different new games

Timing aspects of game play, e.g. blocking/halting the operation of a gaming machine

Games involving multiple players

(wherein the players cooperate, e.g. team-play)

(wherein the players compete, e.g. tournament)

(wherein the competition is one-to-one, e.g. match)

(wherein game attributes are transferred between players, e.g. points, weapons, avatars)

(wherein the number of active machines is limited)

Type of games

Betting, e.g. on live events, bookmaking

Regular and instant lottery, e.g. electronic scratch cards

Card games, e.g. poker, canasta, black jack

Games involving skill, e.g. dexterity, memory, thinking

Fairground games, e.g. Tivoli, coin pusher machines, cranes

depending on the stopping of moving members (in a mechanical slot machine), e.g. "fruit" machines

Age, character or fortune telling apparatus

Ball games; Shooting apparatus

for devices for accepting orders, advertisements, or the like

for ticket printing or like apparatus (e.g. apparatus for dispensing of printed paper tickets or payment cards)

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)

{Automatic teller machines [ATMs]}

{Accessories of ATMs}

{Depositing operations within ATMs (depositing in general G07D 11/00)}

{Dispensing operations within ATMs (dispensing in general G07D 11/00)}

{Loading of a stored value token using an ATM}

{Housing aspects of ATMs}

{Anti-skimming aspects at ATMs}