G07D  HANDLING OF COINS OR VALUABLE PAPERS, e.g. TESTING, SORTING BY DENOMINATIONS, COUNTING, DISPENSING, CHANGING OR DEPOSITING

NOTE

In this subclass, the following terms or expressions are used with the meaning indicated:
- “coins” also covers tokens of similar nature;
- “valuable papers” covers paper currency, banknotes, bills, cheques, vouchers, securities, bonds or similar valuable papers, irrespective of the material used for these, which represent monetary value that can be measured or verified.

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 dispensers (devices delivering paper currency G07D 11/00)
1/02  .  giving change { (coin-actuated mechanisms in general G07F) }
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
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
3/121  .  (arranged on inclined paths)
3/123  .  .  { the coins being deflected off rails }
3/125  .  .  .  (by moving deflectors)
3/126  .  .  .  { the coins being diverted by ramps in channels }
3/128  .  .  { Rotary devices }
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

NOTE

In groups G07D 5/005 - G07D 5/10, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

5/005  .  (Testing the surface pattern, e.g. relief)
Testing security markings invisible to the naked eye, e.g. verifying thickened lines or unobtrusive markings or alterations

**WARNING**

Groups G07D 7/005 – G07D 7/0057 are incomplete pending reclassification of documents from group G07D 7/20. Groups G07D 7/005 – G07D 7/0057 and G07D 7/20 should be considered in order to perform a complete search.

7/0051 . . . {involving markings removed from an original pattern}
7/0053 . . . {involving markings added to a pattern, e.g. interstitial points}
7/0054 . . . {involving markings the properties of which are altered from original properties}
7/0055 . . . {involving markings displaced slightly from original positions within a pattern}
7/0056 . . . {involving markings of altered colours}
7/0057 . . . {involving markings which are altered in dimension, e.g. thickened lines}

7/01 . Testing electronic circuits therein

**WARNING**

Group G07D 7/01 is incomplete pending reclassification of documents from group G07D 7/02 and G07D 7/04. Groups G07D 7/01, G07D 7/02 and G07D 7/04 should be considered in order to perform a complete search.

7/02 . Testing electrical properties of the materials thereof (G07D 7/01 takes precedence)

**WARNING**

Group G07D 7/02 is impacted by reclassification into group G07D 7/01. Groups G07D 7/02 and G07D 7/01 should be considered in order to perform a complete search.

7/023 . . . Measuring conductivity by direct contact
7/026 . . . using capacitive sensors
7/04 . Testing magnetic properties of the materials thereof, e.g. by detection of magnetic imprint (G07D 7/01 takes precedence)

**WARNING**

Group G07D 7/04 is impacted by reclassification into group G07D 7/01. Groups G07D 7/04 and G07D 7/01 should be considered in order to perform a complete search.

7/06 . . . using wave or particle radiation
7/08 . . . Acoustic waves
7/10 . . . Microwaves

7/0058 . . . Visible light, infra-red or ultraviolet radiation

**WARNING**

Group G07D 7/12 is incomplete pending reclassification of documents from group G07D 7/121. Groups G07D 7/12 and G07D 7/121 should be considered in order to perform a complete search.

7/1205 . . . Testing spectral properties
7/121 . . . Apparatus characterised by sensor details

**WARNING**

Group G07D 7/121 is impacted by reclassification into group G07D 7/12. Groups G07D 7/121 and G07D 7/12 should be considered in order to perform a complete search.

7/128 . . . Viewing devices
7/14 . . . using chemical means
7/15 . . . using heating means

**WARNING**

Group G07D 7/15 is incomplete pending reclassification of documents from group G07D 7/00. Groups G07D 7/00 and G07D 7/15 should be considered in order to perform a complete search.

7/16 . . . Testing the dimensions
7/162 . . . Length or width
7/164 . . . Thickness
7/17 . . . Apparatus characterised by positioning means or by means responsive to positioning
7/181 . . . Testing mechanical properties or condition, e.g. wear or tear (G07D 7/16 takes precedence)

**WARNING**

Group G07D 7/181 is impacted by reclassification into group G07D 7/189. Groups G07D 7/181 and G07D 7/189 should be considered in order to perform a complete search.

7/182 . . . Testing stiffness
7/183 . . . Detecting folds or doubles
7/185 . . . Detecting holes or pores
7/187 . . . Detecting defacement or contamination, e.g. dirt
7/189 . . . Detecting attached objects, e.g. tapes or clips (G07D 7/187 takes precedence)

**WARNING**

Group G07D 7/189 is incomplete pending reclassification of documents from group G07D 7/181. Groups G07D 7/181 and G07D 7/189 should be considered in order to perform a complete search.
7/20 . Testing patterns thereon (G07D 7/004, G07D 7/005 take precedence)

**WARNING**

Group G07D 7/20 is impacted by reclassification into groups G07D 7/004 – G07D 7/005. Groups G07D 7/20 and G07D 7/004 – G07D 7/005 should be considered in order to perform a complete search.

7/2008 . . . [using pre-processing, e.g. de-blurring, averaging, normalisation or rotation]
7/2016 . . . [using feature extraction, e.g. segmentation, edge detection or Hough-transformation]
7/202 . . . using pattern matching
7/2033 . . . Matching unique patterns, i.e. patterns that are unique to each individual paper
7/2041 . . . [Matching statistical distributions, e.g. of particle sizes orientations]
7/205 . . . [Matching spectral properties]
7/206 . . . Matching template patterns
7/207 . . . Matching patterns that are created by the interaction of two or more layers, e.g. moiré patterns
7/2075 . . . [Setting acceptance levels or parameters]
7/2083 . . . [Learning]
7/2091 . . . [Setting a plurality of levels]

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
9/002 . . . [Coin holding devices]
9/004 . . . [Coin packages]
9/006 . . . . [Coin wrappers]
9/008 . . . [Feeding coins from bulk]
9/02 . Change trays
9/04 . . . Hand- or motor-driven devices for counting coins
{[counting mechanisms in general G06M]}
9/06 . . . Devices for stacking or otherwise arranging coins on a support, e.g. apertured plate for use in counting coins
9/065 . . . [Devices for wrapping coins]

11/00 Devices accepting coins; Devices accepting, dispensing, sorting or counting valuable papers

**WARNING**

Group G07D 11/00 is impacted by reclassification into group G07D 11/60.

Groups G07D 11/00 and G07D 11/60 should be considered in order to perform a complete search.

11/0087 . . . [Banknote changing devices]
11/009 . . . [Depositing devices]
11/0093 . . . [Drop boxes]
11/0096 . . . [Accepting paper currency or other valuables in containers, e.g. in code-marked envelopes]
11/10 . Mechanical details
11/12 . . . Containers for valuable papers
11/125 . . . Secure containers
11/13 . . . with internal means for handling valuable papers
11/135 . . . [Remote note containers]
11/14 . . . Inlet or outlet ports
11/16 . . . Handling of valuable papers (within containers G07D 11/13)
11/165 . . . Picking
11/17 . . . Aligning
11/175 . . . Flattening, e.g. straightening out folds
11/18 . . . Diverting into different paths or containers
11/20 . Controlling or monitoring the operation of devices; Data handling
11/22 . . . Means for sensing or detection
11/225 . . . for detecting or indicating tampering
11/23 . . . for sensing the quantity of valuable papers in containers
11/235 . . . for monitoring or indicating operating conditions; for detecting malfunctions
11/237 . . . . . for detecting transport malfunctions, e.g. jams or misfeeds
11/24 . . . Managing the stock of valuable papers
11/245 . . . . . Replenishment
11/25 . . . Relocation of valuable papers within devices
11/26 . . . Servicing, repairing or coping with irregularities, e.g. power failure or vandalism
11/28 . . . Setting of parameters; Software updates
11/30 . . . Tracking or tracing valuable papers or cassettes
11/32 . . . Record keeping (transaction aspects G07F 19/00)
11/34 . . . Monitoring the contents of devices, e.g. the number of stored valuable papers
11/36 . . . . . Auditing of activities
11/40 . . . Device architecture, e.g. modular construction
11/50 . . . Sorting or counting valuable papers
11/60 . . . User-interface arrangements

**WARNING**

Group G07D 11/60 is incomplete pending reclassification of documents from group G07D 11/00.

Groups G07D 11/00 and G07D 11/60 should be considered in order to perform a complete search.

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

2201/00 Coin dispensers
2205/00 Coin testing devices
2205/001 . . Reconfiguration of coin testing devices
2205/0011 . . by downloading test parameters, e.g. remotely
2205/0012 . . . automatic adjustment, e.g. self-calibration
2207/00 Paper-money testing devices
2211/00 Paper-money handling devices