

CPC COOPERATIVE PATENT CLASSIFICATION

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

NOTES

1. 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.
2. This subclass covers handling of "coins" or "paper currency" insofar as they carry distinctive value features representative of money or the like.

Informative references:

- sorting in general [B07C](#)
- handling paper sheets in general [B65H](#)
- counting by weighing [G01G](#)
- counting of objects in general, i.e. without discriminating of denominations, [G06M](#)

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[G07D 13/00](#) covered by [G07D 11/00](#) and subgroup.

1/00	Coin dispensers (devices delivering paper currency G07D 11/00)	5/10	. Testing the rim, e.g. the milling of the rim
1/02	. giving change {(coin-actuated mechanisms in general G07F)}	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 {(arrangements for verifying the correctness of markings on a record carrier G06K 5/00)}
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 {(sorting paper currency G07D 11/0084; sorting by coin weight G01G)}		NOTE In this group, groups G07D 7/16 - G07D 7/20 take precedence over groups G07D 7/02 - G07D 7/14 .
3/02	. Sorting coins by means of graded apertures		WARNING Groups G07D 7/0006 , G07D 7/0046 and G07D 7/0093 are not complete pending a reclassification. See also group G07D 7/004
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	7/0006	. {Security markings visible to the naked eye}
3/121	. . {arranged on inclined paths}		WARNING Groups G07D 7/0006 - G07D 7/002 are not complete pending a reorganisation. See also groups G07D 7/124 - G07D 7/127
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}	7/0013	. . {Holograms}
3/14	. Apparatus driven under control of coin-sensing elements	7/002	. . {Watermarks}
3/16	. in combination with coin-counting	7/0026	. . {Barcodes}
		7/0033	. . {Checkcodes, e.g. coded number derived from serial number and value}
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 {(in combination with apparatus freed or actuated by coins or the like G07F 3/00)}	7/004	. {using digital security elements}
			WARNING This group is no longer used for classification of new documents as from January 1st, 2011. The backlog of this group is being continuously reclassified to groups G07D 7/0006 , G07D 7/0046 , G07D 7/0093
5/005	. {Testing the surface pattern, e.g. relief}		
5/02	. Testing the dimensions, e.g. thickness, diameter; Testing the deformation		
5/04	. Testing the weight		
5/06	. Testing the hardness or elasticity	7/0046	. {Security markings invisible to the naked eye, e.g. "digital watermarks"}
5/08	. Testing the magnetic or electric properties		

- 7/0053 . . {involving markings added to a pattern, e.g. interstitial points}
- 7/006 . . {involving markings removed from an original pattern}
- 7/0066 . . {involving markings the properties of which are altered from original properties}
- 7/0073 . . . {involving markings displaced slightly from original positions within a pattern}
- 7/008 . . . {involving markings of altered colours}
- 7/0086 . . . {involving markings which are altered in dimension, e.g. thickened lines}
- 7/0093 . {Circuits in note}
- 7/02 . using electric means, {e.g. detecting electric properties of banknotes ([G07D 7/004](#), [G07D 7/04](#), [G07D 7/06](#) take precedence)}
- 7/023 . . {Measuring conductivity by direct contact}
- 7/026 . . {using capacitive sensors}
- 7/04 . using magnetic means, e.g. detection of magnetic imprint, {detecting magnetic properties of banknotes ([G07D 7/004](#) takes precedence)}
- 7/06 . using wave or particle radiation, {e.g. radiating waves onto the banknote ([G07D 7/004](#) takes precedence)}
- 7/08 . . Acoustic waves
- 7/10 . . Microwaves
- 7/12 . . Visible light, infra-red or ultra violet radiation
- 7/121 . . . {Illumination assembly details}
- 7/122 . . . {Spectral properties}
- 7/124 . . . {Optical security elements}

WARNING

Groups [G07D 7/124](#) - [G07D 7/127](#) are no longer used for the classification of new documents as from March 1, 2008. The backlog of these groups is being continuously reclassified to groups [G07D 7/0006](#) - [G07D 7/002](#)

- 7/125 {Holograms or other interface patterns}
- 7/127 {Watermarks}
- 7/128 . . . {Viewing devices}
- 7/14 . using chemical means
- 7/16 . Testing the dimensions
- 7/162 . . {Length or width}
- 7/164 . . {Thickness}
- 7/166 . . {Folds or doubles}
- 7/168 . . {Position of banknote}
- 7/18 . Testing the stiffness {or other mechanical properties, e.g. wear or tear ([G07D 7/16](#) takes precedence)}
- 7/182 . . {Testing stiffness}
- 7/185 . . {Detecting holes or pores}
- 7/187 . . {Detecting dirt}
- 7/20 . Testing patterns thereon {, e.g. recognition of patterns, image processing, comparing to a reference in a memory}
- 7/2008 . . {preprocessing, e.g. deblurring, averaging, normalisation, rotation}
- 7/2016 . . {feature extraction, e.g. segmentation, edge detection, Hough transformation}
- 7/2025 . . {Pattern matching}
- 7/2033 . . . {matching unique patterns, e.g. fingerprinting}
- 7/2041 . . . {matching a statistical distribution, e.g. of particle sizes orientations}

- 7/205 . . . {matching spectral properties}
- 7/2058 . . . {matching a template}
- 7/2066 . . . {matching with an overlay, e.g. by interference}
- 7/2075 . . {setting acceptance levels or parameters}
- 7/2083 . . . {learning}
- 7/2091 . . . {where a plurality of levels are set}

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**

NOTE

Informative references

- handling of paper currency [G07D 11/0021](#)
- counting paper currency [G07D 11/0084](#)

- 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 or {accepting or dispensing} 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](#); {arrangements actuated by a coded-card for receiving or dispensing monies or the like and posting such transactions to existing accounts, e.g. automatic teller machines [ATMs] [G07F 19/20](#))}**

NOTES

1. This group covers constructional or functioning aspects of devices handling paper currency, including of so-called Automatic Teller Machines [ATMs]; other aspects of ATMs, e.g. posting transactions to existing accounts or aspects related to the interaction with users, are covered by group [G07F 19/20](#)
2. Informative reference:
3. - devices dispensing coins [G07D 1/00](#)

- 11/0003 . {Mechanical details}
- 11/0006 . . {Note containers}
- 11/0009 . . . {Secure note containers, e.g. for transport (coin boxes [G07F 9/06](#); locking means [E05B](#); safes [E05G](#); currency invalidating means [E05G 1/14](#))}
- 11/0012 . . . {incorporating note handling devices within the containers}
- 11/0015 . . . {Remote note containers}
- 11/0018 . . {Inlet or outlet ports}
- 11/0021 . . {Handling paper currency, e.g. banknotes (handling paper sheets in general [B65H](#))}

NOTE

Informative reference- handling paper sheets in general [B65H](#)

G07D

- 11/0024 . . . {Note picking}
- 11/0027 . . . {Aligning ([position of banknote G07D 7/168](#))}
- 11/003 . . . {Flattening, e.g. straightening out folds}
- 11/0033 . . . {Diverting}
- 11/0036 . {Electronic and sensing details}
- 11/0039 . . {for detection of transport malfunction, e.g. jams, misfeeds}
- 11/0042 . . {for tamper detection and indication}
- 11/0045 . . {for cassette fill-level sensing}
- 11/0048 . . {for checking and indicating machine condition, fault detection ([registering or indicating the working of machines in general G07C 3/00](#))}
- 11/0051 . {Means for managing operation, e.g. data handling with apparatus}
- 11/0054 . . {for managing stock of banknotes}
- 11/0057 . . . {Replenishment}
- 11/006 . . . {Relocation of banknotes within apparatus}
- 11/0063 . . {for servicing, repairing or coping with irregularities, e.g. power failure, vandalism}
- 11/0066 . . {for tracking or tracing banknotes or cassettes}
- 11/0069 . . {for record keeping ([indicating machine condition G07D 11/0048](#); [transaction aspects G07F 19/00](#))}
- 11/0072 . . . {Contents of apparatus, e.g. number of stored banknotes}
- 11/0075 . . . {Audit trail of performed activities}
- 11/0078 . . {for transmitting data, e.g. software updates, parameter settings}
- 11/0081 . {Device architecture, e.g. modular construction}
- 11/0084 . {Sorting or counting paper currency ([sorting coins G07D 3/00](#) - [counting coins G07D 9/00](#))}
- 11/0087 . {Banknote changing devices}
- 11/009 . {Depositing devices ([safes E05G](#))}
- 11/0093 . . {Drop boxes}
- 11/0096 . . {Accepting paper currency or other valuables in containers, e.g. in code-marked envelopes}

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](#)

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