ECLA   EUROPEAN CLASSIFICATION

G07D   **HANDLING OF COINS OR OF PAPER CURRENCY OR SIMILAR VALUABLE PAPERS, e.g. TESTING, SORTING BY DENOMINATIONS, COUNTING, DISPENSING, CHANGING OR DEPOSITING [M1104]**

[N: **WARNING**
The following IPC groups are not used in the internal ECLA classification scheme. Subject matter covered by these groups is classified in the following ECLA groups: G07D13/00 covered by G07D11/00 and s.gr.
]

Note [M1104]
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.
```

[N: **Note**
This suclass 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
]
```

G07D1/00   **Coin dispensers [M1104]**

[N: **Informative reference:**
- devices delivering paper currency G07D11/00
]

G07D1/02   .   giving change [N: (coin-actuated mechanisms in general G07F)] [M1104]
G07D1/04   .   .   dispensing change equal to a sum deposited
G07D1/06   .   .   dispensing the difference between a sum paid and a sum charged
G07D1/08   .   .   hand actuated

G07D3/00   **Sorting a mixed bulk of coins into denominations** [N: (sorting paper currency G07D11/00K; sorting by coin weight G01G)] **[M1104]**

[N: **WARNING**
Not complete pending a reclassification. See also groups G07F3/00 and G07F3/04 [N0808]
]

G07D3/02   .   Sorting coins by means of graded apertures [M1104]

G07D3/04   . .   arranged on an inclined rail

G07D3/06   . .   arranged along a circular path

G07D3/08   . .   arranged on a helix

G07D3/10   . .   provided by sieves arranged in series

G07D3/12   .   Sorting coins by means of stepped deflectors [M1104]

G07D3/12B   . .   [N: arranged on inclined paths] [N9509]

G07D3/12B2   . . .   [N: the coins being deflected off rails] [N9509]

G07D3/12B2B   . . . .   [N: by moving deflectors] [N9509]

G07D3/12B4   . . .   [N: the coins being diverted by ramps in channels] [N9509]

G07D3/12D   . .   [N: Rotary devices] [N9509]

G07D3/14   .   Apparatus driven under control of coin-sensing elements [M1104]

G07D3/16   .   in combination with coin-counting [M1104]

G07D5/00   **Testing specially adapted to determine the identity or genuineness of coins, e.g. for segregating coins which are unacceptable or alien to a currency** [N: (in combination with apparatus freed or actuated by coins or the like G07F3/00)] **[M1104]**

[N: **WARNING**
Not complete pending a reclassification. See also groups G07F3/00 to G07F3/02F [N0808]
]

G07D5/00P   .   [N: Testing the surface pattern, e.g. relief] [N0009]

[N: **WARNING**
Not complete pending a reclassification. See also groups G07F3/02 and G07F3/02F [N0808]
]

G07D5/02   .   Testing the dimensions, e.g. thickness, diameter; Testing the deformation

[N: **WARNING**
Not complete pending a reclassification. See also groups G07F3/02 and G07F3/02B [N0808]
]

G07D5/04   .   Testing the weight

G07D5/06   .   Testing the hardness or elasticity

[N: **WARNING**
Not complete pending a reclassification. See also groups G07F3/02 and G07F3/02D [N0808]
]

G07D5/08   .   Testing the magnetic or electric properties

[N: **WARNING**
Not complete pending a reclassification. See also groups G07F3/02 and G07F3/02D

N0808]
]

G07D5/10 . Testing the rim, e.g. the milling of the rim

[N: **WARNING**
Not complete pending a reclassification. See also groups G07F3/02 and G07F3/02F [N0808]
]

G07D7/00 **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** [N: (arrangements for verifying the correctness of markings on a record carrier G06K5/00)] **[M1104]**

[N: **WARNING** [N1104]
Groups G07D7/00B, G07D7/00F and G07D7/00H are not complete pending a reclassification. See also group G07D7/00D
]

Note
In this group, groups G07D7/16 to G07D7/20 take precedence over groups G07D7/02 to G07D7/14.

G07D7/00B . [N: Security markings visible to the naked eye] [N0803]

[N: **WARNING**
Groups G07D7/00B to G07D7/00B4 are not complete pending a reorganisation. See also groups G07D7/12P to G07D7/12P4 [N0810]
]

G07D7/00B2 . . [N: Holograms] [N0803]
G07D7/00B4 . . [N: Watermarks] [N0803]
G07D7/00B6 . . [N: Barcodes] [N0803]
G07D7/00B8 . . [N: Checkcodes, e.g. coded number derived from serial number and value] [N0803]

G07D7/00D . [N: using digital security elements] [N1104]

[N: **WARNING** [N1104]
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 G07D7/00B, G07D7/00F, G07D7/00H and subgroups
]

G07D7/00F . [N: Security markings invisible to the naked eye, e.g. "digital watermarks"] [N0803]
G07D7/00F2 . . [N: involving markings added to a pattern, e.g. interstitial points] [N0803]
G07D7/00F4 . . [N: involving markings removed from an original pattern] [N0803]
G07D7/00F6 . . [N: involving markings the properties of which are altered from original properties] [N0803]
G07D7/00F6B . . . [N: involving markings displaced slightly from original positions within a pattern] [N0803]
G07D7/00F6C . . . [N: involving markings of altered colours] [N0803]

G07D7/00F6D   . . .   [N: involving markings which are altered in dimension, e.g. thickened lines] [N0803]

G07D7/00H   .   [N: Circuits in note] [N0803]

G07D7/02   .   using electric means, [N: e.g. detecting electric properties of banknotes (G07D7/00D, G07D7/04, G07D7/06 take precedence)] [N9810]

G07D7/02B   . .   [N: Measuring conductivity by direct contact] [N9810]

G07D7/02C   . .   [N: using capacitive sensors] [N9810]

G07D7/04   .   using magnetic means, e.g. detection of magnetic imprint, [N: detecting magnetic properties of banknotes (G07D7/00D takes precedence)] [N9810]

G07D7/06   .   using wave or particle radiation, [N: e.g. radiating waves onto the banknote (G07D7/00D takes precedence)] [N9810]

G07D7/08   . .   Acoustic waves [N9810]

G07D7/10   . .   Microwaves [N9810]

G07D7/12   . .   Visible light, infra-red or ultra violet radiation [N9810]

G07D7/12B   . . .   [N: Illumination assembly details] [N9810]

G07D7/12C   . . .   [N: Spectral properties] [N9810]

G07D7/12P   . . .   [N: Optical security elements] [N0810]

     [N: **WARNING**
Groups G07D7/12P to G07D7/12P4 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 G07D7/00B to G07D7/00B4 [N0810]
]

G07D7/12P2   . . . .   [N: Holograms or other interface patterns] [N0810]

G07D7/12P4   . . . .   [N: Watermarks] [N0810]

G07D7/12V   . . .   [N: Viewing devices] [N0803]

G07D7/14   .   using chemical means [N9810]

G07D7/16   .   Testing the dimensions [N9810]

G07D7/16B   . .   [N: Length or width] [N9810]

G07D7/16C   . .   [N: Thickness] [N9810]

G07D7/16D   . .   [N: Folds or doubles] [N9810]

G07D7/16E   . .   [N: Position of banknote] [N9810]

G07D7/18   .   Testing the stiffness [N: or other mechanical properties, e.g. wear or tear (G07D7/16 takes precedence)] [N9810]

G07D7/18B   . .   [N: Testing stiffness] [N9810]

G07D7/18C   . .   [N: Detecting holes or pores] [N9810]

G07D7/18D   . .   [N: Detecting dirt] [N9810]

G07D7/20   .   Testing patterns thereon [N: e.g. recognition of patterns, image processing, comparing to a reference in a memory] [N9810] [C0803]

G07D7/20B   . .   [N: preprocessing, e.g. deblurring, averaging, normalisation, rotation] [N0803]

G07D7/20D   . .   [N: feature extraction, e.g. segmentation, edge detection, Hough transformation]

		N0803]
G07D7/20F	. .	[N: Pattern matching] [N0803]
G07D7/20F2	. . .	[N: matching unique patterns, e.g. fingerprinting] [N0803]
G07D7/20F4	. . .	[N: matching a statistical distribution, e.g. of particle sizes orientations] [N0803]
G07D7/20F6	. . .	[N: matching spectral properties] [N0803]
G07D7/20F8	. . .	[N: matching a template] [N0803]
G07D7/20F10	. . .	[N: matching with an overlay, e.g. by interference] [N0803]
G07D7/20H	. .	[N: setting acceptance levels or parameters] [N0803]
G07D7/20H2	. . .	[N: learning] [N0803]
G07D7/20H4	. . .	[N: where a plurality of levels are set] [N0803]

G07D9/00   **Counting coins** (in combination with coin-sorting G07D3/16)**; Handling of coins not provided for in the other groups of this subclass [M1104]**

[N: **Informative references**

- handling of paper currency G07D11/00D6
- counting paper currency G07D11/00K
]

G07D9/00C	.	[N: Coin holding devices] [N9604]
G07D9/00C2	. .	[N: Coin packages] [N9604]
G07D9/00C2B	. . .	[N: Coin wrappers] [N9604]
G07D9/00F	.	[N: Feeding coins from bulk] [N9607]
G07D9/02	.	Change trays
G07D9/04	.	Hand- or motor-driven devices for counting coins [N: (counting mechanisms in general G06M)] [M1104]
G07D9/06	.	Devices for stacking or otherwise arranging coins on a support, e.g. apertured plate for use in counting coins
G07D9/06B	. .	[N: Devices for wrapping coins]

G07D11/00   **Devices accepting coins or** [N: 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 G07F7/04; complete banking systems G07F19/00; [N: 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] G07F19/00F]) [N9601] **[M1104]**

[N: **Note**
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 G07F19/00F
]

[N: **Informative reference:**

- devices dispensing coins G07D1/00
]

G07D11/00D	.	[N: Mechanical details] [N9601] [C0206]
G07D11/00D2	. .	[N: Note containers] [N9601]
G07D11/00D2B	. . .	[N: Secure note containers, e.g. for transport (coin boxes G07F9/06; locking means E05B; safes E05G; currency invalidating means E05G1/14)] [N9601] [C0206]
G07D11/00D2D	. . .	[N: incorporating note handling devices within the containers] [N9601]
G07D11/00D2F	. . .	[N: Remote note containers] [N0206]
G07D11/00D4	. .	[N: Inlet or outlet ports] [N0206]
G07D11/00D6	. .	[N: Handling paper currency, e.g. banknotes] [N0206]

[N: **Informative reference**
- handling paper sheets in general B65H
]

G07D11/00D6B	. . .	[N: Note picking] [N0206]
G07D11/00D6D	. . .	[N: Aligning (position of banknote G07D7/16E)] [N0206]
G07D11/00D6F	. . .	[N: Flattening, e.g. straightening out folds] [N0206]
G07D11/00D6H	. . .	[N: Diverting] [N0206]

G07D11/00E	.	[N: Electronic and sensing details] [N0206]
G07D11/00E2	. .	[N: for detection of transport malfunction, e.g. jams, misfeeds] [N0206]
G07D11/00E4	. .	[N: for tamper detection and indication] [N0206]
G07D11/00E6	. .	[N: for cassette fill-level sensing] [N0206]
G07D11/00E8	. .	[N: for checking and indicating machine condition, fault detection] [N0206]

[N: **Informative reference**
- registering or indicating the working of machines in general G07C3/00
]

G07D11/00F	.	[N: Means for managing operation, e.g. data handling with apparatus] [N0206]
G07D11/00F2	. .	[N: for managing stock of banknotes] [N0206]
G07D11/00F2B	. . .	[N: Replenishment] [N0206]
G07D11/00F2D	. . .	[N: Relocation of banknotes within apparatus] [N0206]
G07D11/00F4	. .	[N: for servicing, repairing or coping with irregularities, e.g. power failure, vandalism] [N0206]
G07D11/00F6	. .	[N: for tracking or tracing banknotes or cassettes] [N0206]
G07D11/00F8	. .	[N: for record keeping (indicating machine condition G07D11/00E8; transaction aspects G07F19/00)] [N0206]
G07D11/00F8B	. . .	[N: Contents of apparatus, e.g. number of stored banknotes] [N0206]
G07D11/00F8D	. . .	[N: Audit trail of performed activities] [N0206]
G07D11/00F10	. .	[N: for transmitting data, e.g. software updates, parameter settings] [N0206]

G07D11/00H	.	[N: Device architecture, e.g. modular construction] [N0206]

G07D11/00K   .   [N: Sorting or counting paper currency] [N0206]

[N: **Informative references**

- sorting coins G07D3/00
- counting coins G07D9/00
]

G07D11/00L   .   [N: Banknote changing devices] [N0206]

G07D11/00M   .   [N: Depositing devices (safes E05G)] [N0206]

G07D11/00M2   .   .   [N: Drop boxes] [N0206]

G07D11/00M4   .   .   [N: Accepting paper currency or other valuables in containers, e.g. in code-marked envelopes] [N0206]

G07D13/00   **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 G07D1/00-G07D11/00** [N1104]