CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(NOTES omitted)

INSTRUMENTS

13/04

13/045

. . for indicating fare or state of hire

vehicle}

• • { with indicating means on the outside of the

G07 CHECKING-DEVICES

G07B TICKET-ISSUING APPARATUS; FARE-REGISTERING APPARATUS; FRANKING APPARATUS

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.

	scheme.		
1/00	Machines for printing and issuing tickets (printing mechanisms per se <u>B41</u> ; output mechanisms of digital computers <u>G06C 11/00</u>) • employing selectable printing plates	13/06 13/08 13/10	Driving arrangementsTariff-changing arrangementsautomatically actuated
1/04 1/06 1/08 3/00 3/02 3/04	 wherein the plates are inserted without selectable printing plates portable Machines for issuing preprinted tickets from stock in wound strip form from a stack 	15/00	Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points (handling coins or valuable papers, e.g. banknotes, G07D; apparatus for vending or hiring articles or services activated by coins, credit cards, paper currency or the like G07F 7/00, G07F 17/00)
3/04	· Hom a stack		NOTES
5/00 5/02 5/04 5/06 5/08 5/10 5/12	Details of, or auxiliary devices for, ticket-issuing machines (for validating inserted tickets G07B 11/02) for cutting-off or separating tickets for recording or registering tickets issued for preventing fraudulent operation for avoiding incorrect action of the machine indicating when ticket supply is exhausted allowing manual writing on the tickets		 Data processing aspects of payment systems or protocols relating to toll, entrance fee or fare collection, e.g. in road pricing or congestion charging, are also classified in G06Q 20/00. { This group covers also: car rental systems; systems for reserving and using access tickets, e.g. check-in systems }
7/00	Holders providing direct manual access to the tickets	15/02	• taking into account a variable factor such as distance or time, e.g. for passenger transport, parking systems or car rental systems (G07B 15/06)
9/00	Ticket punches (perforating pliers <u>B26F 1/36</u> ; marking record carriers in digital fashion by punching G06K 1/02)		takes precedence; taximeters <u>G07B 13/00</u> ; parking meters <u>per se G07F 17/24</u> ; {car rental systems <u>per se G07B 15/00</u> })
9/02	Toy ticket-punches	15/04	 comprising devices to free a barrier, turnstile, or the like {(turnstiles with registering means
11/00	Apparatus for validating or cancelling issued		<u>G07C 9/10</u> ; coin-freed aspects <u>G07F 17/00</u>)}
11/02 11/03	ticketsfor validating inserted ticketsby printing	15/06	 Arrangements for road pricing or congestion charging of vehicles or vehicle users, e.g. automatic toll systems
11/05	by perforating		<u>NOTE</u>
11/07	by separating part of ticket		This group <u>covers</u> the identification or tracking
11/09	combined with receptacle for separated part of ticket (refuse receptacles in general <u>B65F 1/00</u>)		of vehicles or vehicle users for the purpose of road pricing or congestion charging, which
11/11	for cancelling tickets		means that vehicles or vehicle users are not
13/00	Taximeters (measuring distance travelled <u>G01C</u> ; measuring time <u>G04</u>)		necessarily channelled through fixed control points, e.g. toll booths or overhead gantries, but
13/005 13/02	 {operating mechanically} Details; Accessories		may be detected at a number of places when they travel in normal fashion in a pre-defined

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locality, e.g. a defined area in a city centre or

an expressway, and where the information so

G07B 15/06 (continued)	generated is then used to determine a charge to be paid	2017/00258 {Electronic hardware aspects, e.g. type of circuits used}
		2017/00266 {Man-machine interface on the apparatus}
15/063	• • {using wireless information transmission between	2017/00274 • • • {Mechanical, e.g. keyboard}
	the vehicle and a fixed station (identification of	2017/00282 {Touch screen}
	vehicles <u>G08G</u>)}	
15/066	• • {being coin-operated}	2017/0029 {Soft buttons; buttons that can change function}
17/00	Franking apparatus (printing aspects <u>B41</u>)	2017/00298 {Visual, e.g. screens and their layouts}
17/00008	• {operated by portable carriers, e.g. for inputting	2017/00306 {Acoustic, e.g. voice control or speech
	credit or information}	prompting}
17/00016	• {Relations between apparatus, e.g. franking	17/00314 • • {Communication within apparatus, personal
17700010	machine at customer or apparatus at post office, in a	computer [PC] system, or server, e.g. between
	franking system}	printhead and central unit in a franking machine}
17/00024	Physical or organizational aspects of franking	2017/00322 {Communication between components/
17/00024	systems}	modules/parts, e.g. printer, printhead,
2017/00032	• • {Determining the location of apparatus}	keyboard, conveyor or central unit}
		2017/0033 • • • {Communication with software component,
2017/0004	{Determining the location of mailpieces	e.g. dll or object}
2017/00010	outside apparatus}	g ,
	• • • {Software architecture}	2017/00338 {Error detection or handling}
	• • • {Client-server}	2017/00346 {Power handling, e.g. power-down routine}
2017/00064	• • • • {Virtual meter, online stamp; PSD	2017/00354 {Setting of date}
	functions or indicia creation not at user's	17/00362 {Calculation or computing within apparatus, e.g.
	location}	calculation of postage value}
2017/00072	• • {Hybrid mail, i.e. mail delivered using different	2017/0037 {Calculation of postage value}
	physical means along the mail delivery path,	2017/00379 {Calculation of different sending options for a
	e.g. email and envelope}	mail piece}
17/0008	• • {Communication details outside or between	2017/00387 {Currency calculation, e.g. from DEM to EUR}
	apparatus (coin-freed apparatus for franking per	2017/00395 • • • {Memory organization}
	se <u>G07F 17/26</u>)}	2017/00403 • • • • {Memory zones protected from unauthorized
	{via landlines}	reading or writing}
	• • • {via phone lines}	2017/00411 • • • • {Redundant storage, e.g. back-up of
	• • • {via TV cable}	registers}
2017/00112	• • {Wireless}	2017/00419 • • • {Software organization, e.g. separation into
	• • • {in a mobile phone system}	objects}
	• • • {Satellite communication}	2017/00427 {Special accounting procedures, e.g. storing
2017/00137	{In a LAN}	special information}
	• • {via the Internet}	17/00435 {Details specific to central, non-customer
2017/00153	• • {for sending information}	apparatus, e.g. servers at post office or vendor}
2017/00161	{from a central, non-user location, e.g. for	2017/00443 {Verification of mailpieces, e.g. by checking
	updating rates or software, or for refilling	databases}
	funds}	2017/00451 {Address hygiene, i.e. checking and correcting
2017/00169	• • • {from a franking apparatus, e.g. for verifying	addresses to be printed on mail pieces using
	accounting}	address databases}
2017/00177	• • • (from a portable device, e.g. a card or a	17/00459 • {Details relating to mailpieces in a franking system}
	PCMCIA}	17/00467 • • {Transporting mailpieces (postal sorting <u>B07C</u>)}
17/00185	• {Details internally of apparatus in a franking	2017/00475 {Sorting mailpieces}
	system, e.g. franking machine at customer or	2017/00483 {Batch processing of mailpieces}
	apparatus at post office (digital data processing	2017/00491 {Mail/envelope/insert handling system}
	G06F; coin-freed apparatus for franking per se	2017/005 {Measures for preventing or handling
4=100400	<u>G07F 17/26</u>)}	mailpieces stoppages}
17/00193	• • {Constructional details of apparatus in a franking	17/00508 • • {Printing or attaching on mailpieces (printing
2017/00201	system}	mechanisms <u>B41J</u> ; security printing <u>B41M 3/14</u> ;
2017/00201	• • • {Open franking system, i.e. the printer is not	marking methods <u>B41M 5/00</u> ; inks <u>C09D 11/00</u> ;
	dedicated to franking only, e.g. PC (Personal	record carriers with at least a part designed to
2017/00200	Computer)}	carry digital markings <u>G06K 19/00</u>)}
	{Mailbox, i.e. container for outgoing mail}	2017/00516 {Details of printing apparatus}
2017/00217	• • {Portable franking apparatus, i.e. the whole	2017/00524 {Printheads}
2017/00225	franking apparatus, not parts alone}	2017/00532 {Inkjet}
2017/00225	• • • {Vending machine or POS (Point Of Sale) apparatus}	2017/0054 {Thermal printhead}
2017/00222		2017/00548 {Mechanical printhead}
	{Housing, e.g. lock or hardened casing}	2017/00556 {Ensuring quality of print}
	{Modular design}	2017/00564 {Ensuring correct position of print on
2017/0023	• • {Storage of, e.g. ribbon}	mailpiece}

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2017/00572	{Details of printed item}		 coding,
2017/0058	{Printing of code}		for erro
2017/00588	{Barcode}		<u>H03M</u>
2017/00596	{Printing of address}	2017/00741	(using spee
2017/00604	{Printing of advert or logo}	2017/00741	{using spec functions}
2017/00612	{Attaching item on mailpiece}	2017/0075	{Symme
2017/0062	{Label}	2017/0075	RC2, RC
2017/00629	{Circuit, e.g. transponder}	2017/00758	{Asymm
2017/00637	• • • {Special printing techniques, e.g. interlacing}	2017/00/30	Elgamal)
2017/00645	• • • • {Separating print into fixed and variable parts}	2017/00766	{Digital ESIGN
2017/00653	• • {Special inks, e.g. fluorescent}	2017/00774	{MAC (1
17/00661	• • {Sensing or measuring mailpieces (weighing		DES-MA
	<u>G01G 19/00</u>)}	2017/00782	{Hash fu
2017/00669	• • • {Sensing the position of mailpieces}	2017/0079	{Time-depe
2017/00677	• {Keeping track of mailpieces inside apparatus}	2017/00798	{using timessage}
2017/00685	• • {Measuring the dimensions of mailpieces}	2017/00806	{Limited
2017/00693	• • • {Measuring the speed of mailpieces inside apparatus}		{Continu within a
2017/00701	{Measuring the weight of mailpieces}	2017/00822	{including
2017/00709	{Scanning mailpieces}		{Postal d
2017/00717	{Reading barcodes}		machine
2017/00725	{Reading symbols, e.g. OCR}	2017/00838	{Persona
17/00733	• {Cryptography or similar special procedures in a	2017/00846	{Key mana
	franking system}	2017/00854	{Key ger
	NOTE		{Key stor
	References listed below indicate CPC places	2017/0087	Key dis

which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

- secret or secure communication H04L 9/00
- mechanisms actuated by objects other thancoins to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus for cashless transactions only G07F 7/10
- access-control involving the use of a pass in combination with an identity-check of the pass- holder by means of personal physical data, e.g. characteristic facial curves, hand geometry, voice spectrum, fingerprints G07C 9/00
- recognising characters or patterns in general G06F 18/00, G06V 30/00
- random or pseudo-random generators G06F 7/58
- circuits generating pulses having a predetermined statistical distribution H03K 3/84
- multiple service credit cards with protecting memory zones G07F 7/10
- security arrangements for protecting computers or computer systems against unauthorised activity G06F 21/00
- record carriers with conductive marks and special arrangements for circuits, e.g. for protecting identification code in memory G06K 19/073
- error detection and error correction G06F 11/00

g, decoding or code conversion, or detection or error correction I 13/00

ecific cryptographic algorithms or

etric, secret-key algorithms, e.g. DES, C4, IDEA, Skipjack, CAST, AES}

metric, public-key algorithms, e.g. RSA,

ital signature, e.g. DSA, DSS, ECDSA,

(Message Authentication Code), e.g. AC}

function, e.g. MD5, MD2, SHA}

pendency }

timestamps, i.e. recording time in

ed validity time}

nuous communication, e.g. answer limited time period}

g unique details}

data, e.g. postage, address, sender, e ID, vendor}

nal data, i.e. biometrics}

agement}

eneration }

orage, e.g. escrowing by trusted third

• • • {Key distribution}

2017/00879 {using session key}

2017/00887 {using look-up tables, also called master tables with pointers}

2017/00895 . . . {Key verification, e.g. by using trusted party}

2017/00903 . . . {Key destruction or retirement}

2017/00911 . . {Trusted party}

2017/00919 . . {Random number generator}

2017/00927 . . {Certificates, e.g. X.509}

2017/00935 . . {Passwords}

2017/00943 . . {Compression techniques}

2017/00951 . . {Error handling, e.g. EDC (Error Detection Codes)}

2017/00959 . . {Cryptographic modules, e.g. a PC encryption

2017/00967 . . . {PSD [Postal Security Device] as defined by the USPS [US Postal Service]}

17/00975 • {using mechanical accounting means}

17/00983 . {with means for resetting the monetary value of the accounting means}

17/00991 . . {from a central point, e.g. post office}

17/02 . with means for computing or counting {(<u>G07B 17/00975</u> takes precedence)}

17/04 . with means for avoiding misuse

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