## CPC COOPERATIVE PATENT CLASSIFICATION

### G PHYSICS

(NOTES omitted)

### **INSTRUMENTS**

## G06 COMPUTING; CALCULATING OR COUNTING

(NOTES omitted)

# G06K GRAPHICAL DATA READING (image or video recognition or understanding G06V); PRESENTATION OF DATA; RECORD CARRIERS; HANDLING RECORD CARRIERS

#### NOTE

This subclass covers:

- marking, sensing, and conveying of record carriers;
- reading graphical representations from record carriers, e.g. barcodes;
- presenting visually or otherwise the data recognised or the result of a computation.

#### **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.

<b>1/00</b> 1/02	Methods or arrangements for marking the record carrier in digital fashion  by punching	1/22	Simultaneous marking and printing on different record carriers, e.g. on different types of record carrier
1/025	<ul> <li>• {Details, e.g. construction of the punching mechanism}</li> </ul>	3/00	Methods or arrangements for printing of data in the shape of alphanumeric or other characters
1/04	<ul> <li>controlled by sensing markings on the record carrier being punched</li> </ul>		from a record carrier, e.g. interpreting, printing- out from a magnetic tape
1/05	High-speed punches, e.g. controlled by electric computer	3/02	Translating markings on a record carrier into printed data on the same record carrier, i.e. interpreting
1/06 1/08 1/10	<ul><li>. Manually-controlled devices</li><li>. Card punches</li><li>. Tape punches</li></ul>	5/00	Methods or arrangements for verifying the correctness of markings on a record carrier;
1/10 1/12 1/121	<ul> <li>otherwise than by punching</li> <li>{by printing code marks (applying code marks to</li> </ul>	5/02	Column detection devices  the verifying forming a part of the marking action
1/121	labels <u>B65C 9/46</u> ; marking or coding completed packages <u>B65B 61/26</u> )}	5/04	Verifying the alignment of markings
1/123 1/125	<ul><li> {for colour code marks}</li><li> {by magnetic means}</li></ul>	7/00	Methods or arrangements for sensing record carriers, {e.g. for reading patterns} (methods or arrangements for marking the record carrier in digital
1/126	• • {by photographic or thermographic registration (recording apparatus for measuring instruments G01D 15/00)}		fashion <u>G06K 1/00</u> ; pattern recognition <u>G06F 18/00</u> ; arrangements for image or video recognition or understanding <u>G06V 10/00</u> ; character recognition,
1/128	• • {by electric registration, e.g. electrolytic, spark erosion (recording apparatus for measuring instruments <u>G01D 15/06</u> ; information storage in	7/0004	recognising digital ink or document-oriented image- based pattern recognition G06V 30/00)
1/14	general G11)}  by transferring data from a similar or dissimilar	7/0004	<ul> <li>{Hybrid readers}</li> <li>{General problems related to the reading of electronic memory record carriers, independent of</li> </ul>
1/16	record carrier		its reading method, e.g. power transfer}
1/16	<ul> <li>by reproducing data from one punched card on to one or more punched cards without the code representation, i.e. duplicating</li> </ul>	7/0013	• {by galvanic contacts, e.g. card connectors for ISO-7816 compliant smart cards or memory cards, e.g. SD card readers (connectors in general
1/18	by transferring data from one type of record carrier on to another type of record carrier, e.g.  from magnetic type to guarded and		<u>H01R 13/00</u> ; connectors for SIM cards used in mobile phones or the like <u>H04B 1/3816</u> )}
1/20	from magnetic tape to punched card . Simultaneous marking of record carrier and	7/0017	<ul> <li>{ the reading head of the connector being removably attached to the housing}</li> </ul>
	printing-out of data, e.g. printing-punch	7/0021	<ul> <li>{ for reading/sensing record carriers having surface contacts}</li> </ul>

7/0026	• • • {the galvanic contacts of the connector adapted for landing on the contacts of the card upon	7/045 • • • { whereby the entire datafield of the record carriers is simultaneously sensed}
7/003	<ul><li>card insertion}</li><li>• • {means for pressing the connector contacts}</li></ul>	7/047 • • • {whereby the data field of the record carriers is sensed successively column after column}
77003	in the direction of the card contacts to assure trustworthy electrical connection between card and connector}	7/06 by means which conduct current when a mark is sensed or absent, e.g. contact brush for a conductive mark
7/0034	• • {the connector being capable of simultaneously	7/065 • { for conductive marks }
7/0020	receiving a plurality of cards in the same insertion slot}	7/08 • by means detecting the change of an electrostatic or magnetic field, e.g. by detecting change of
7/0039	<ul> <li>• {the plurality of cards being cards of the same type and format, e.g. two ISO 7816 smart cards}</li> </ul>	<ul> <li>capacitance between electrodes</li> <li>7/081</li> <li>{electrostatic, e.g. by detecting the charge of capacitance between electrodes}</li> </ul>
7/0043	{the plurality of cards being cards of different	7/082 • • {using inductive or magnetic sensors}
E /00 4E	formats, e.g. SD card and memory stick}	7/083 • • • {inductive ( $\underline{G06K7/10336}$ takes precedence)}
7/0047	<ul> <li>{for reading/sensing record carriers having edge contacts}</li> </ul>	7/084 {sensing magnetic material by relative movement detecting flux changes without
7/0052	<ul> <li>{connectors capable of contacting cards of different formats, e.g. memory stick and SD card</li> </ul>	altering its magnetised state}
	readers sharing at least one connector contact and	7/085 {metal detectors}
	the associated signal line, e.g. both using the same signal line for input or output of data}	7/086 {sensing passive circuit, e.g. resonant circuit transponders}
7/0056	<ul> <li>• {housing of the card connector}</li> </ul>	7/087 • • • {flux-sensitive, e.g. magnetic, detectors
7/0050	<ul><li>. (nousing of the card connector)</li><li> (the housing being a portable casing)</li></ul>	$(\underline{606K7/10336} \text{ takes precedence})$
7/0065	{comprising keyboard or display, e.g. a pocket	7/088 { using magneto-sensitive switches, e.g. reed-
7/0003	calculator sized casing suitable for off-line	switches}
	checking the remaining money on a smart	7/089 • • {hand-held scanners}
	banking card}	7/10 • by electromagnetic radiation, e.g. optical sensing;
7/0069	{including means for detecting correct insertion	by corpuscular radiation
	of the card, e.g. end detection switches	7/10009 • (sensing by radiation using wavelengths larger
	notifying that the card has been inserted	than 0.1 mm, e.g. radio-waves or microwaves}
	completely and correctly}	<u>NOTE</u>
7/0073	• • • {having multiple insertion slots, the respective	This group <u>covers</u> electromagnetic
	slots suited for the same or different card form	interrogation as radiated by the antenna of
	factors}	an interrogation device while interrogating a
7/0078	{reinforced housing for protection against	plurality of wireless electronic memory record
	damage, be it due malevolent action, such as drilling and other ways of forced entry, or by	carriers, e.g. non-contact smart cards, RFID
	accident, such as shock due to dropping}	tags or labels, or transponders
7/0082	• • {comprising an arrangement for protection	7/10019 {resolving collision on the communication
7/0082	against electrostatic discharge, e.g. by	channels between simultaneously or
	grounding part of the conductive housing}	concurrently interrogated record carriers.
7/0086	• • {the connector comprising a circuit for steering	(collision between the communication channels
	the operations of the card connector}	used by wireless communication devices,
7/0091	{the circuit comprising an arrangement for	where the solution is not particularly adapted
	avoiding intrusions and unwanted access to	for RFIDs or the like, <u>H04W 74/08</u> )}
	data inside of the connector}	7/10029 {the collision being resolved in the time
7/0095	• {Testing the sensing arrangement, e.g. testing if	domain, e.g. using binary tree search or RFID responses allocated to a random time
	a magnetic card reader, bar code reader, RFID	slot}
	interrogator or smart card reader functions properly	7/10039 {interrogator driven, i.e. synchronous}
7/01	(testing of electrical circuits <u>G01R 31/28</u> )}	7/10049 {binary tree}
7/01	Details	7/10059 {transponder driven}
7/015	<ul> <li>Aligning or centering of the sensing device with respect to the record carrier</li> </ul>	7/10069 {the collision being resolved in the frequency
7/016	Synchronisation of sensing process	domain, e.g. by hopping from one frequency to the other (frequency hopping or spread
7/0163	• • • {by means of additional timing marks on the record-carrier}	spectrum techniques <u>H04B 7/00</u> )}
7/0166	• • {by means of clock-signals derived from the code marks, e.g. self-clocking code}	7/10079 {the collision being resolved in the spatial domain, e.g. temporary shields for
7/02	<ul> <li>by pneumatic or hydraulic means, e.g. sensing</li> </ul>	blindfolding the interrogator in specific
	punched holes with compressed air; by sonic means	directions}
	{; by ultrasonic means}	
7/04	. by mechanical means, e.g. by pins operating electric	
	contacts	
7/042	• • {controlling electric circuits}	

7/10089	<ul> <li> {the interrogation device using at least one directional antenna or directional interrogation field to resolve the collision (direction or location finding, such as triangulation techniques, G01S 13/00)}</li> <li> {the directional field being used for pinpointing the location of the record carrier, e.g. for finding or locating an RFID tag amongst a plurality of RFID tags, each RFID tag being associated with an object, e.g. for physically</li> </ul>		propagating data from record carriers via intermediate stations to the interrogation device, e.g. a distant RFID or RFID falling in a "shadow" region sending its identification data to an interrogation device using at least the help of one further RFID that is positioned in a region "visible" to the interrogation device, the further RFID therefore functioning as a relay station}
7/10108	locating the RFID tagged object in a warehouse} {interrogating only those RFIDs that fulfill		<ul> <li>• { setting parameters for the interrogator, e.g. programming parameters and operating modes}</li> <li>• • { parameter settings related to power</li> </ul>
7710100	a predetermined requirement, e.g. selecting		consumption of the interrogator}
	all RFIDs having the same speed and moving in a cloud like fashion, e.g. on the same	7/10217	• • • { parameter settings controlling the transmission power of the interrogator}
	train; interrogating only RFIDs having a certain predetermined temperature, e.g. in the same fridge, another possibility being the	7/10227	• • • {loading programming parameters or programs into the interrogator, e.g. for configuring the interrogator}
	active ignoring of a group of tags that fulfill a predetermined requirement, equivalent to the Boolean NOT operation}	7/10237	• • • {the reader and the record carrier being capable of selectively switching between reader and
7/10118	<ul> <li>• (the sensing being preceded by at least one preliminary step)</li> </ul>		record carrier appearance, e.g. in near field communication [NFC] devices where the NFC device may function as an RFID reader or as an
7/10128	• • • • {the step consisting of detection of the presence of one or more record carriers in the	7/10247	RFID tag} {issues specific to the use of single wire
7/10120	vicinity of the interrogation device}		protocol [SWP] in NFC like devices}
7/10138	of record carrier, e.g. to determine if the record carrier is an RFID tag of the long or short range type, or to determine the preferred communication protocol of the		<ul> <li> {arrangements for protecting the interrogation against piracy attacks (computer security in general G06F 21/00; jamming of communication, countermeasures H04K 3/00; secret communication H04K 1/00)}</li> </ul>
7/10148	RFID tag} {the step consisting of dynamically tuning	7/10267	• • • { the arrangement comprising a circuit inside of the interrogation device }
	the resonant circuit of the interrogation device that is emitting the interrogation signal, e.g. for impedance matching inside of	7/10277	• • • {the arrangement being mechanical, such as reinforced housings or protective cages against unlawful entry}
7/10159	the interrogation device (for tuning related to loop aerials in general <u>H01Q 7/00</u> )}	7/10287	in the proximity of the interrogation device,
7/10158	• • • {methods and means used by the interrogation device for reliably powering the wireless record	7/10297	e.g. signal scrambling devices } {arrangements for handling protocols designed
	carriers using an electromagnetic interrogation field}		for non-contact record carriers such as RFIDs NFCs, e.g. ISO/IEC 14443 and 18092
7/10168	• • • • {the powering being adversely affected by environmental influences, e.g. unwanted energy loss in the interrogation signal due		(cryptographic protocols <u>H04L 9/00</u> ; network security protocols <u>H04L 63/00</u> ; real-time
	to metallic or capacitive objects in the		communication protocols in data switching networks <u>H04L 65/00</u> ; network protocols for
	proximity of the interrogation device or in the proximity of the interrogated record	7/10306	data switching network services <u>H04L 67/00</u> )} {ultra wide band}
7/10178	carrier} {including auxiliary means for focusing,		• • • {using at least one antenna particularly
	repeating or boosting the electromagnetic interrogation field (comparable booster		designed for interrogating the wireless record carriers (antennas in general <u>H01Q 1/22</u> )}
	antennas integrated on the record carrier	7/10326	<ul> <li> {the antenna being of the very-near field type, e.g. capacitive}</li> </ul>
	itself <u>G06K 19/07794</u> )}		• • • {the antenna being of the near field type, inductive coil}
		7/10346	• • • { the antenna being of the far field type, e.g. HF types or dipoles}
		7/10356	• • • {using a plurality of antennas, e.g. configurations including means to resolve interference between the plurality of antennas}
		7/10366	{the interrogation device being adapted for miscellaneous applications}

7/10376	• • • {the interrogation device being adapted for being moveable}	7/10643 {Activating means} 7/10653 {using flexible or piezoelectric
7/10386	• • • • { the interrogation device being of the portable or hand-handheld type, e.g.	means}
	incorporated in ubiquitous hand-held	7/10663 { using hologram } 7/10673 { Parallel lines }
	devices such as PDA or mobile phone, or	7/10683 {Arrangement of fixed elements}
	in the form of a portable dedicated RFID	7/10693 {Arrangement of fixed elements}
	reader}	7/10702 {Particularities of propagating elements,
7/10396	• • • • {the interrogation device being wearable,	e.g. lenses, mirrors (G06K 7/10831
	e.g. as a glove, bracelet, or ring (wearable	takes precedence)}
5/10/05	aerials in general H01Q 1/27)}	7/10712 {Fixed beam scanning}
//10405	• • • • { the interrogation device including an arrangement for sensing environmental	7/10722 {Photodetector array or CCD scanning}
	parameters, such as a temperature or	7/10732 {Light sources}
	acceleration sensor, e.g. used as an on/off	7/10742 {including a diffuser for diffusing the
	trigger or as a warning means}	light from the light source to create
7/10415	• • • {the interrogation device being fixed in its	substantially uniform illumination of the target record carrier}
	position, such as an access control device	7/10752 {Exposure time control}
	for reading wireless access cards, or a	7/10762 {Relative movement}
	wireless ATM (banking machines in general G07F 19/00)}	7/10772 {Moved readers, e.g. pen, wand}
7/10425	• • • • {the interrogation device being arranged	7/10782 {Slot readers}
7710123	for interrogation of record carriers passing	7/10792 {Special measures in relation to the object to be
	by the interrogation device}	scanned}
7/10435	• • • • {the interrogation device being	7/10801 {Multidistance reading}
	positioned close to a conveyor belt or	7/10811 {Focalisation}
	the like on which moving record carriers are passing (conveying in accordance	7/10821 {further details of bar or optical code scanning
	with bodily destination marks, see	devices}
	B65G 47/46, sorting of objects carrying	7/10831 {Arrangement of optical elements, e.g. lenses, mirrors, prisms (optical elements per
	identity markings, see <u>B07C 5/34</u> )}	se G02B)}
7/10445	• • • • • { the record carriers being fixed to	7/10841 {Particularities of the light-sensitive
	further objects, e.g. RFIDs fixed	elements (semiconductor devices <u>H01L</u> )}
	to packages, luggage, mail-pieces or work-pieces transported on a	7/10851 {Circuits for pulse shaping, amplifying,
	conveyor belt}	eliminating noise signals, checking the
7/10455	• • • • • • {the record carriers being fixed to an	function of the sensing device (basic electronic circuitry <u>H03</u> )}
	endless tape or at least not fixed to	7/10861 {sensing of data fields affixed to objects
	further objects}	or articles, e.g. coded labels (postal sorting
7/10465	• • • { the interrogation device being capable of	<u>B07C 3/14</u> , conveying articles <u>B65G 47/48</u> )}
	self-diagnosis, e.g. in addition to or as part of the actual interrogation process (testing of	7/10871 {randomly oriented data-fields, code-
	electrical circuits in general G01R 31/28)}	marks therefore, e.g. concentric circles-
7/10475	• • • {arrangements to facilitate interaction with	code} 7/10881 {constructional details of hand-held}
	further interrogation devices, e.g. such that at	scanners}
	least two interrogation devices may function	7/10891 {the scanner to be worn on a finger or on a
	and cooperate in a network of such devices}	wrist}
	{Arrangement of optical elements}	7/109 {adaptations to make the hand-held
	<ul><li>. {Circuits for pulse forming, amplifying}</li><li>. {Data fields affixed to objects or articles}</li></ul>	scanner useable as a fixed scanner}
	Randomly orientated data fields	7/1091 {means to wake up the scanner from a
	{Hand-held scanners}	sleep mode, e.g. using an acceleration sensor indicating that the scanner is being
	• • {Scanner to be worn on a finger or on a wrist}	picked up by a user}
	• • {by scanning of the records by radiation in the	7/1092 {sensing by means of TV-scanning}
	optical part of the electromagnetic spectrum}	7/1093 {sensing, after transfer of the image of
	• • {Moving beam scanning}	the data-field to an intermediate store, e.g.
	· · · · {Light sources}	storage with cathode ray tube}
	{Multiple sources}	7/1094 {the record carrier being at least partially of
	{Source control}	the hologram type} 7/1095 {the scanner comprising adaptations for
	<ul><li> {Beam path}</li><li> {Basic scanning using moving elements}</li></ul>	scanning a record carrier that is displayed on
	{Basic scanning using moving elements} {by rotation, e.g. polygon}	a display-screen or the like}
	{by oscillation}	
= 0 000	(-)	

7/197	7/1096	• • • • {the scanner having more than one scanning window, e.g. two substantially orthogonally placed scanning windows for integration into a check-out counter of a super-market}	11/00	Methods or arrangements for graph-reading or for converting the pattern of mechanical parameters, e.g. force or presence, into electrical signal (feelers for copying devices on machine
construction   7/1099   Sexaning using X-rays   7/112   using a selected wavelength, e.g. to sense red marks and Ignore Due marks and I	7/1097	• • • • {Optical sensing of electronic memory record carriers, such as interrogation of RFIDs with an additional optical interface}		tools <u>B23Q 35/00</u> ; arrangements for measuring areas <u>G01B</u> ; measuring force <u>G01L</u> ; adapted as input devices to computers <u>G06F 3/00</u> ; combined
7/12 using a selected wavelength, e.g. to sense red marks and ignore blue marks. 7/14 1. using light without selection of wavelength, e.g. sensing reflected white light (CGORS 7/1033). GOOK 7/1097 take precedence) 7/1404 (Methods for optical code recognition) 7/1408 (Methods for optical code recognition) 7/1419 (1D bar codes) 7/1410 (1D bar codes) 7/1410 (1D bar codes) 7/1410 (Circular bar codes) 7/1411 (2D bar codes) 7/1412 (Circular bar codes) 7/1413 (Glayth-codes) 7/1414 (Garvaches with supplemental or add-on codes) 7/1415 (Including a method step for retrieval of the optical code) 7/1415 (Including a method step for retrieval of the optical code) 7/1416 (determining the orientation of the optical code with expect to the reader and correcting therefore) 7/1417 (ethods including quality enhancement steps) 7/1418 (ausing sub-pixel interpolation) 7/1419 (the method including quality enhancement steps) 7/1419 (the method including a method step optical code) 7/1419 (the method including a reconstruction step.) 7/1419 (the me	7/1098			for image or video recognition or understanding
marks and ignore blue marks using light without selection of wavelength, e.g. seroing reflected while light (CGOR 7,10831 - COOK 71097 take procedence)  7,1404	7/1099	• • {scanning using X-rays}		
17/14   using light without selection of wavelength, e.g. sensing reflected white light (1006K 7/10831 - 0006K 7/1097 take precedence)	7/12			
GOSC 21,000	7/14	using light without selection of wavelength,		position of an object with respect to a predetermined
7.1404				
1.   1.   1.   1.   1.   1.   1.   1.				WARNING
the type of code   1/1413				This group and its subgroups are no longer used
17/1413   . [1D bar codes]   arrangements for input to a computer are classified under GoGe 3:003 and GoGe 3:	//1408			
7/1417 . (2D bar codes) 7/1426 . (Multi-level bar codes) 7/1426 . (Multi-level bar codes) 7/1437 . (Giryh-codes) 7/1438 . (Barcodes with supplemental or add-on codes) 7/1439 . (including a method step for retrieval of the optical code) 7/1430 . (locating of the code in an image) 7/1441 . (extracting optical code) 7/1442 . (etertacting optical code) 7/1452 . (determining the orientation of the optical code with respect to the reader and correcting therefore) 7/146 . (the method including quality enhancement steps) 7/1463 . (using several successive scans of the optical code) 7/1479 . (using sub-pixel interpolation) 7/1478 . (adapting the threshold for pixels in a CMOS or CCD pixel sensor for black and white recognition) 7/1480 . (string the trespect ton) 7/1481 . (adapting the threshold width for bar codes to be decoded) 7/1482 . (using fuzzy logic or natural solvers, such as neural networks, genetic algorithms and simulated annealing) 7/1483 . (Setting the threshold-width for bar codes to be decoded) 7/1494 . (the method including a reconstruction step, e.g. stitching two pieces of bar code together to derive the full bar code) 7/1495 . (the method including a nimage compression step) 7/1496 . (Setting the threshold-width for bar codes to be decoded) 7/1497 . (the method including a reconstruction step) . (the method including a properties) . (the method including a properties) . (the method including a possible push button) . (the method including a properties) . (the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card) 7/1496 . (Setting the threshold-width for bar codes to be decoded) . (the method including a proposable push button) . (the ejection arrangement comprising a pivotable push button) . (the ejection arrangement comprising a slide, carriage or drawer) . (the ejection arrangement using a heart-				•
7/1426   [Multi-level bar codes   7/143   [Glyph-codes   7/143   [Barcodes with supplemental or add-on codes   7/1434   [Barcodes with supplemental or add-on codes   7/1439   (including a method step for retrieval of the optical code)   11/04   11/06   20/1439   (including a method step for retrieval of the optical code   11/04   (locating of the code in an image)   11/04   (locating of the code in an image)   11/05   (locating of the code in an image)   11/05   (locating of the code in an image)   11/06   (locating of the code in an image)   13/06   (locating of the reshold of popical code)   13/06   (locating cards)   13/07   (locating cards)   13/08   (locating cards)   (locating cards)   (locating cards)   (locating cards)   (locating cards)   (locating cards)   (locati				
Which an exploring member or beam is forced to follow the curve   fo			11/02	Automotic curre followers ( i.e. carron comonts in
7/1434			11/02	
Codes   11/04				
7/1439   (including a method step for retrieval of the optical code)   7/1447   (locating of the code in an image)   7/1447   (extracting optical code)   7/1447   (extracting optical code)   7/1452   (detecting bar code edges)   7/1456   (determining the orientation of the optical code with respect to the reader and correcting therefore)   7/146   (the method including quality enhancement steps)   13/02   (the method including quality enhancement steps)   13/05	//1454		11/04	using an auxiliary scanning pattern
7/1447   Cataring of the code in an image	7/1439		11/06	
text carrying said optical code}  7/1452	7/1443			
Addermining the orientation of the optical code with respect to the reader and correcting therefore   13/02   13/02   14/00	7/1447			
code with respect to the reader and correcting therefore)  7/146	7/1452	• • • • {detecting bar code edges}	13/00	Conveying record carriers from one station to
7/146 {the method including quality enhancement steps} 7/1465 {using several successive scans of the optical code}	7/1456	code with respect to the reader and		(conveying record carriers combined with another
7/1465	7/146	{the method including quality enhancement	13/02	the record carrier having longitudinal dimension
7/1469 . {using sub-pixel interpolation} 13/05 . Capstans; Pinch rollers 7/1473 . {error correction} 13/06 . Guiding cards; Checking correct operation of card-conveying mechanisms	7/1/165	* *		
7/1469	//1403	` •	13/04	
7/1473	7/1469			
7/1478 {adapting the threshold for pixels in a CMOS or CCD pixel sensor for black and white recognition}				
white recognition}  7/1482 {using fuzzy logic or natural solvers, such as neural networks, genetic algorithms and simulated annealing}  7/1486 {Setting the threshold-width for bar codes to be decoded}  7/1491 {the method including a reconstruction step, e.g. stitching two pieces of bar code together to derive the full bar code}  7/1495 {the method including an image compression step}  13/0812 {the ejection arrangement being of the push-push kind}  13/0831 {the ejection arrangement using a heart-	7/1478			card-conveying mechanisms
7/1482 {using fuzzy logic or natural solvers, such as neural networks, genetic algorithms and simulated annealing}  7/1486 {Setting the threshold-width for bar codes to be decoded}  7/1491 {the method including a reconstruction step, e.g. stitching two pieces of bar code together to derive the full bar code}  7/1495 {the method including an image compression step}  13/081 {the ejection arrangement being of the push-push kind}  13/0825 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-				
as neural networks, genetic algorithms and simulated annealing } 13/07 . Transporting of cards between stations 13/073 . with continuous movement 13/074 . with intermittent movement; Braking or stopping movement 13/075 . with intermittent movement; Braking or stopping movement 13/0806 . Feeding or discharging cards 13/0806 . {using an arrangement for ejection of an inserted card } 13/0812 . {the method including an image compression step } 13/0818 {the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card } 13/0818 {the push bar comprising a pivotable push button } 13/0825 {the ejection arrangement being of the push-push kind } 13/0831 {the ejection arrangement comprising a slide, carriage or drawer } 13/0837 {the ejection arrangement using a heart-	7/1/192		13/067	
simulated annealing }  7/1486 {Setting the threshold-width for bar codes to be decoded }  7/1491 {the method including a reconstruction step, e.g. stitching two pieces of bar code together to derive the full bar code }  7/1495 {the method including an image compression step}  13/0806 {the method including an image compression step}  13/0812 {the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card}  13/0818 {the push bar comprising a pivotable push button}  13/0831 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-	//1462		13/07	
7/1491 {Setting the threshold-width for bar codes to be decoded}  7/1491 {the method including a reconstruction step, e.g. stitching two pieces of bar code together to derive the full bar code}  7/1495 {the method including an image compression step}  13/0806 {the method including an image compression step}  13/0812 {the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card}  13/0818 {the push bar comprising a pivotable push button}  13/0825 {the ejection arrangement being of the push-push kind}  13/0831 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-				
7/1491 {the method including a reconstruction step, e.g. stitching two pieces of bar code together to derive the full bar code}  7/1495 {the method including an image compression step}  13/0806 {using an arrangement for ejection of an inserted card}  13/0812 {the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card}  13/0818 {the push bar comprising a pivotable push button}  13/0825 {the ejection arrangement being of the push-push kind}  13/0831 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-	7/1486			with intermittent movement; Braking or
step, e.g. stitching two pieces of bar code together to derive the full bar code}  7/1495 { the method including an image compression step}  13/0806 { the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card}  13/0818 { the push bar comprising a pivotable push button}  13/0825 { the ejection arrangement being of the push-push kind}  13/0831 { the ejection arrangement comprising a slide, carriage or drawer}  13/0837 { the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card}  13/0825 { the ejection arrangement being of the push-push kind}  13/0831 { the ejection arrangement comprising a slide, carriage or drawer}	7/1491		13/08	
together to derive the full bar code}  7/1495 {the method including an image compression step}  13/0812 {the ejection arrangement utilizing a push bar for manipulation by hand in order to eject the inserted card}  13/0818 {the push bar comprising a pivotable push button}  13/0825 {the ejection arrangement being of the push-push kind}  13/0831 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-		step, e.g. stitching two pieces of bar code		
step}  bar for manipulation by hand in order to eject the inserted card}  13/0818 {the push bar comprising a pivotable push button}  13/0825 {the ejection arrangement being of the push-push kind}  13/0831 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-	7/1405			inserted card}
13/0818 {the push bar comprising a pivotable push button}  13/0825 {the ejection arrangement being of the push-push kind}  13/0831 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-	//1495		13/0812	bar for manipulation by hand in order to eject
<ul> <li>13/0825 {the ejection arrangement being of the pushpush kind}</li> <li>13/0831 {the ejection arrangement comprising a slide, carriage or drawer}</li> <li>13/0837 {the ejection arrangement using a heart-</li> </ul>			13/0818	• • • • {the push bar comprising a pivotable push
13/0831 {the ejection arrangement comprising a slide, carriage or drawer}  13/0837 {the ejection arrangement using a heart-			13/0825	• • • { the ejection arrangement being of the push-
13/0837 {the ejection arrangement using a heart-			13/0831	• • • { the ejection arrangement comprising a slide,
			13/0837	{ the ejection arrangement using a heart-

13/0843	{from or back into the same magazine (automatic card files G06K 17/0003)}	15/027	Test patterns and calibration (arrangements for controlling or analysing printing mechanisms
13/085	• • { using an arrangement for locking the inserted card}		of typewriters or selective printing units <u>B41J 29/393</u> takes precedence; colour
13/0856	• • • {the locking arrangement comprising a notch		correction using test pattern analysis in general
	in the card and a complementary locking		<u>H04N 1/6033</u> )}
	means in the card reading station}	15/028	• • {by thermal printers}
13/0862	• • • • {the locking arrangement being of the rotate-	15/029	• • {using optical beams}
	slide and lock type, such as, e.g. common in	15/04	by rack-type printers
13/0868	mobile phones} {using an arrangement for keeping the feeding	15/06	• by type-wheel printers
13/0808	or insertion slot of the card station clean of	15/07	by continuously-rotating-type-wheel printers, e.g. rotating-type-drum printers
	dirt, or to avoid feeding of foreign or unwanted	15/08	<ul> <li>by flight printing with type font moving in the</li> </ul>
	objects into the slot}	13/00	direction of the printed line, e.g. chain printers
13/0875	• • • { the arrangement comprising a shutter for	15/10	• • by matrix printers {(G06K 15/028 takes
	blocking at least part of the card insertion		precedence)}
10/0001	slot}	15/102	• • { using ink jet print heads}
13/0881	{ the shutter arranged to open only if the record carrier has been authenticated to	15/105	• • • {Multipass or interlaced printing}
	enter the insertion slot}	15/107	• • • • {Mask selection}
13/0887	• • • { the arrangement comprising a size filter for	15/12	• • by photographic printing {, e.g. by laser printers}
13/0007	filtering out only cards having the proper	15/1204	• • • {involving the fast moving of an optical
	size}		beam in the main scanning direction (G06K 15/1233 - G06K 15/129 take
13/0893	• • • { the arrangement comprising means for		precedence)}
	cleaning the card upon insertion}	15/1209	• • • {Intensity control of the optical beam
13/10	from magazine to conveying arrangement		(G06K 15/1223 takes precedence)}
13/103	using mechanical means	15/1214	• • • {by feedback}
13/107	using pneumatic means	15/1219	• • • {Detection, control or error compensation
13/12	from conveying arrangement to magazine		of scanning velocity or position, e.g.
13/14 13/16	<ul><li>Card magazines, e.g. pocket, hopper</li><li>Handling flexible sheets, e.g. cheques</li></ul>		synchronisation ( <u>G06K 15/1223</u> takes
13/18	<ul> <li>Handing flexible sheets, e.g. cheques</li> <li>the record carrier being longitudinally extended, e.g.</li> </ul>	15/1223	<ul><li>precedence)}</li><li> {Resolution control, enlarging or reducing,</li></ul>
13/10	punched tape	13/1223	edge or detail enhancement}
13/20	. Details	15/1228	• • • {involving the fast moving of a light beam in
13/22	Capstans; Pinch rollers	10,1220	two directions (G06K 15/1233 - G06K 15/129
13/24	Guiding of record carriers; Recognising end of		take precedence)}
	record carrier	15/1233	• • { using a cathode-ray tube or an optical-fibre
13/26	Winding-up or unwinding of record carriers;		tube}
10/00	Driving of record carriers	15/1238	• • • {simultaneously exposing more than one point}
13/28	· · · continuously	15/1242	• • • {on one main scanning line}
13/30 <b>15/00</b>	Arrangements for producing a permanent visual	15/1247	• • • • {using an array of light sources, e.g. a linear array}
15/00	presentation of the output data {, e.g. computer	15/1252	• • • • {using an array of light modulators, e.g. a
	output printers}(printing or plotting combined with	15/1257	linear array}
	another operation, e.g. with conveying, G06K 17/00)	15/1257 15/1261	<ul><li> {on more than one main scanning line}</li><li> {using an array of light sources}</li></ul>
15/002	• {Interacting with the operator}	15/1261	{using an array of light sources} {using a moving array}
15/005	• • {only locally}	15/1200	{using a moving array} {by light beam splitting}
15/007	• • {only remotely, e.g. at a host computer	15/1271	{adding two or more images, e.g. texturing,
	(dedicated computer interfaces to print systems	10,12.0	shading, form overlay}
15/02	G06F 3/1201)} . using printers	15/128	• • • {generating or processing printable items, e.g.
15/021	<ul> <li>. (Adaptations for printing on specific media)</li> </ul>		characters}
15/022	• • {for printing on continuous media, e.g. tapes}	15/1285	• • {Holographic scanning (in general <u>G02B</u> )}
15/023	• • • {for printing on transparent media}	15/129	{Colour printing}
15/024	• • • {for printing on segmented surfaces, e.g.	15/1295	• • • {using a particular photoreceptive medium}
	sticker sheets, label rolls}	15/14	. by electrographic printing, e.g. xerography; by
15/025	• • {Simulating output on another printing		magnetographic printing {(G06K 15/12 takes precedence)}
	arrangement, e.g. proof output (matching two or	15/16	Means for paper feeding or form feeding
	more picture signal generators or two or more picture reproducers <u>H04N 1/6052</u> )}	15/18	• • {Conditioning data for presenting it to the
15/026	• • { introduction of proof output parameters }	•	physical printing elements (for data conditioning
13/020	• • • [minoduction of proof output parameters]		specific to a type of printer see subgroups
			<u>G06K 15/028</u> - <u>G06K 15/14</u> ; print job translation
			or parsing <u>G06F 3/1244</u> )}

15/1801	• • • {Input data handling means}	15/1852 {involving combining data of different combining data data data data data data data dat	rent
15/1802	• • • • {Receiving generic data, e.g. fonts, colour	types}	
	palettes}	15/1853 {Combining raster data of differ	ent
15/1803	{Receiving particular commands}	resolutions}	
15/1805	{Receiving printer configuration	15/1855 {Combining raster data and graph	hic
	commands}	primitives}	
15/1806	{Receiving job control commands}	15/1856 {characterized by its workflow}	
15/1807	• • • • {relating to the print image preparation}	15/1857 {involving parallel processing in	the same
15/1809	• • • • • {relating to the printing process}	printing apparatus}	
15/181	• • • • • • (Receiving print data characterized by its	15/1859 {involving data processing distr	buted
13/101	formatting, e.g. particular page description	amongst different data processing	
	languages}	apparatus}	6
15/1811	{including high level document	15/186 {taking account of feedback from	n an
13/1011	description only}	output condition, e.g. available	
15/1813	• • • • • {Page description language recognition}	constraints}	
		15/1861 {taking account of a limited ava	ilable
15/1814	• • • • (including print-ready data, i.e. data	memory space or rasterization ti	
15/1015	already matched to the printing process}	15/1863 {by rasterizing in sub-page se	
15/1815	• • • • {Receiving print data in mixed format}	15/1864 {by reducing the depth of son	
15/1817	{Buffers}	elements' definition}	ic image
15/1818	• • • • {Adaptations for accepting data from more	15/1865 {by compressing the rasterize	d print
	than one source (managing interfaces	data}	u print
	<u>G06K 15/4045</u> )}	15/1867 {Post-processing of the composed ar	a
15/1819	• • • • {for a same print job}	rasterized print image (scanning, trai	
15/1821	• • • • {Sending feedback on the reception process	or reproduction of documents H04N	
	to the data source, e.g. indication of full	•	
	buffer}	15/1868 {for fitting to an output condition,	e.g. paper
15/1822	• • • • {Analysing the received data before	colour or format}	
	processing}	15/1869 {Depleting the print image}	
15/1823	• • • • { for evaluating the resources needed, e.g.	15/1871 {with provisions for image feature.	
	rasterizing time, ink, paper stock}	conservation or enhancement, e.	
15/1825	• • • • {Adapting the print data to an output	conservation or enhancement of	zone
	condition, e.g. object trapping (trapping on	edges}	
	rasterized data H04N 1/58)	15/1872 {Image enhancement}	
	1asterized data <u>11041V 1/36</u> );		
15/1826		15/1873 {Increasing spatial resolution; A	nti-
15/1826 15/1827	• • • • {Object trapping}	15/1873 {Increasing spatial resolution; <i>A</i> aliasing}	
15/1827	<ul><li> {Object trapping}</li><li> {Accessing generic data, e.g. fonts}</li></ul>	15/1873 {Increasing spatial resolution; A aliasing} 15/1874 {with provisions for treating states	
	<ul><li> {Object trapping}</li><li> {Accessing generic data, e.g. fonts}</li><li> {characterized by the kind of storage</li></ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating something print data differently}	ome of the
15/1827 15/1828	<ul><li> {Object trapping}</li><li> {Accessing generic data, e.g. fonts}</li><li> {characterized by the kind of storage accessed}</li></ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soft print data differently}  15/1876 {Decreasing spatial resolution; }	ome of the Dithering}
15/1827	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soprint data differently}  15/1876 {Decreasing spatial resolution; Increasing spatial resolution;	ome of the Dithering}
15/1827 15/1828 15/183	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soft print data differently}  15/1876 {Decreasing spatial resolution; }	ome of the Dithering}
15/1827 15/1828 15/183 15/1831	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soft print data differently}  15/1876 {Decreasing spatial resolution; I soft provisions for treating soft print data differently}  15/1878 {Adjusting colours (image colours)	ome of the Dithering} ome of the
15/1827 15/1828 15/183 15/1831 15/1832	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soprint data differently}  15/1876 {Decreasing spatial resolution; I sprint data differently}  15/1877 {with provisions for treating soprint data differently}	ome of the Dithering} ome of the
15/1827 15/1828 15/183 15/1831 15/1832 15/1834	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soft print data differently}  15/1876 {Decreasing spatial resolution; I for the spatial resolution; I f	ome of the Dithering } ome of the ar ents in
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Transforming generic data}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soft print data differently}  15/1876 {Decreasing spatial resolution; I soft provisions for treating soft print data differently}  15/1877 {with provisions for treating soft print data differently}  15/1878 {Adjusting colours (image color correction or control for documents)	ome of the Dithering } ome of the ar ents in
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Rasterization}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soft print data differently}  15/1876 {Decreasing spatial resolution; I for the spatial resolution; I f	ome of the Dithering } ome of the ar ents in
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836 15/1838	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Rasterization}</li> <li> {Romovable memories, e.g. font cartridges}</li> <li> {Compressed bitmaps}</li> <li> {Compressed bitmaps}</li> <li> {Transforming generic data}</li> <li> {Rasterization}</li> <li> {from outline-coded data}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soprint data differently}  15/1876 {Decreasing spatial resolution; I for the specific sp	ome of the Dithering are onts in ome of the
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836 15/1838 15/1839	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Rasterization}</li> <li> {from outline-coded data}</li> <li> {from skeleton-coded data}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soprint data differently}  15/1876 {Decreasing spatial resolution; I for the specific sp	ome of the Dithering ome of the ar ents in ome of the mages in
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836 15/1838 15/1839 15/184	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Rasterization}</li> <li> {Rom outline-coded data}</li> <li> {from skeleton-coded data}</li> <li> {from compressed bitmap data}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soprint data differently}  15/1876 {Decreasing spatial resolution; I for the specific sp	ome of the Dithering ome of the ar ents in ome of the mages in
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836 15/1838 15/1839	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Rasterization}</li> <li> {from outline-coded data}</li> <li> {from skeleton-coded data}</li> <li> {from compressed bitmap data}</li> <li> {Geometric transformations, e.g. on raster</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating sprint data differently}  15/1876 {Decreasing spatial resolution; I for the sprint data differently}  15/1877 {with provisions for treating sprint data differently}  15/1878 {Adjusting colours (image colon correction or control for docume general H04N 1/60)}  15/188 {with provisions for treating sprint data differently}  15/1881 {Halftoning (halftoning of still in general H04N 1/405, H04N 1/52)}  15/1882 {involving operator action}	ome of the Dithering ome of the one of the one of the ome of the o
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836 15/1838 15/1839 15/184	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {characterized by the format of the data}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Rasterization}</li> <li> {from outline-coded data}</li> <li> {from skeleton-coded data}</li> <li> {from compressed bitmap data}</li> <li> {Geometric transformations, e.g. on raster data}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soprint data differently}  15/1876 {Decreasing spatial resolution; I for the provisions for treating soprint data differently}  15/1877 {with provisions for treating soprint data differently}  15/1878 {Adjusting colours (image colon correction or control for docume general H04N 1/60)}  15/1881 {with provisions for treating soprint data differently}  15/1881 {Halftoning (halftoning of still in general H04N 1/405, H04N 1/50)}  15/1882 {involving operator action}  15/1884 {for choosing a level of output of the provisions of the provisions of the provisions of treating soprint data differently}	ome of the Dithering ome of the one of the ome of the o
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836 15/1838 15/1839 15/184 15/1842	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {Compressed bitmaps}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Rasterization}</li> <li> {from outline-coded data}</li> <li> {from compressed bitmap data}</li> <li> {from compressed bitmap data}</li> <li> {Geometric transformations, e.g. on raster data}</li> <li> {Changing size or raster resolution}</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating soprint data differently}  15/1876 {Decreasing spatial resolution; I for the provisions for treating soprint data differently}  15/1877 {with provisions for treating soprint data differently}  15/1878 {Adjusting colours (image colon correction or control for docume general H04N 1/60)}  15/188 {with provisions for treating soprint data differently}  15/1881 {Halftoning (halftoning of still in general H04N 1/405, H04N 1/50)}  15/1882 {involving operator action}  15/1884 {for choosing a level of output of a differently}  15/1885 {for modifying the layout of a differently}	ome of the Dithering ome of the our ents in ome of the mages in 2) auality ocument ocument of the ocument ocum
15/1827 15/1828 15/183 15/1831 15/1832 15/1834 15/1835 15/1836 15/1838 15/1839 15/184	<ul> <li> {Object trapping}</li> <li> {Accessing generic data, e.g. fonts}</li> <li> {characterized by the kind of storage accessed}</li> <li> {Removable memories, e.g. font cartridges}</li> <li> {Compressed bitmaps}</li> <li> {Outline coded data}</li> <li> {Transforming generic data}</li> <li> {Rasterization}</li> <li> {from outline-coded data}</li> <li> {from compressed bitmap data}</li> <li> {Geometric transformations, e.g. on raster data}</li> <li> {Changing size or raster resolution}</li> <li> {Anti-aliasing raster data (G06K 15/1843)</li> </ul>	15/1873 {Increasing spatial resolution; A aliasing}  15/1874 {with provisions for treating sprint data differently}  15/1876 {Decreasing spatial resolution; I Decreasing sprint data differently}  15/1878 {Adjusting colours (image color correction or control for docume general H04N 1/60)}  15/188 {with provisions for treating sprint data differently}  15/1881 {Halftoning (halftoning of still in general H04N 1/405, H04N 1/5)}  15/1882 {involving operator action}  15/1884 {for choosing a level of output of 15/1885}  15/1885 {Storage of the print image data of 15/1886}	ome of the Dithering ome of the our ents in ome of the mages in 2) auality ocument ocument of the ocument ocum
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15/1898	• • • { while adapting the order of the data to the printing elements' arrangement, e.g. row-to-column conversion}	17/0009	• • {with sequential access selection of a record carrier from the card-file, e.g. relative movement between selecting device and card-file}
15/22	<ul> <li>using plotters</li> </ul>	17/0012	• • { with more than one selection steps, e.g. selection
15/225	• {using optical plotters}	1,,0012	of a record carrier from a selected compartment
15/40	• {Details not directly involved in printing, e.g.		of a compartmented storage (storage devices for
10/ .0	machine management, management of the		articles <u>B65G 1/0407</u> )}
	arrangement as a whole or of its constitutive	17/0016	• {Selecting or retrieving of images by means of
	parts (computer driven print job management		their associated code-marks, e.g. coded microfilm
	<u>G06F 3/1237</u> )}		or microfiche (microfilm reading G03B 21/11;
15/4005	• • {Sharing resources or data with other data		computers therefor <u>G06F 16/00</u> ; teaching devices
	processing systems; Preparing such data (for		G09B 5/02; accessing record carriers G11B 27/002;
	distributed printing G06K 15/1859)}		static digital stores using optical elements G11C 13/04; intermediate storage of facsimile
15/401	• • {Sharing memory space}		picture signals <u>H04N 1/21</u> )}
15/4015	<ul> <li>{Sharing generic data descriptions, e.g. fonts, colour palettes, rasterized objects}</li> </ul>	17/0019	• • {for images on filmstrips}
15/402	Sharing data concerning the arrangement's	17/0022	• {arrangements or provisious for transferring data to
13/402	configuration or current state (for managing		distant stations, e.g. from a sensing device ("transfer
	optional units G06K 15/4025)}		between computer elements G06F 13/00 "; data-
15/4025	• • {Managing optional units, e.g. sorters, document		transmission <u>H04L</u> )}
	feeders}	17/0025	• • {the arrangement consisting of a wireless
15/403	• • • {handling the outputted documents, e.g.		interrogation device in combination with a device
	staplers, sorters}	17/0000	for optically marking the record carrier}
15/4035	• • • {Managing mailboxes}	17/0029	<ul> <li>• {the arrangement being specially adapted for wireless interrogation of grouped or bundled</li> </ul>
15/404	• • • • {Managing other optional outputs, e.g.		articles tagged with wireless record carriers}
	collators, staplers}	17/0032	• {Apparatus for automatic testing and analysing
15/4045	• • {Managing the interface to the data source, e.g.	1770032	marked record carriers, used for examinations of
15/405	choosing an interface for data reception}		the multiple choice answer type (teaching apparatus
15/405 15/4055	{Choosing a data source, e.g. on a network}		working with questions and answers <u>G09B 7/00</u> )}
13/4033	Managing power consumption, e.g. standby mode (computer driven power saving)	19/00	Record carriers for use with machines and with at
	management for a printer G06F 3/1221; power	17/00	least a part designed to carry digital markings
	saving in a data processing device in general	19/005	• {the record carrier comprising an arrangement to
	G06F 1/32)		facilitate insertion into a holding device, e.g. an
15/406	• • • {Wake-up procedures (start-up of a laser		arrangement that makes the record carrier fit into an
	• • • {Wake-up procedures (start-up of a laser scanner <u>G06K 15/1219</u> )}	10/02	arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}
15/406 15/4065	<ul> <li> {Wake-up procedures (start-up of a laser scanner <u>G06K 15/1219</u>)}</li> <li>. {Managing print media, e.g. determining</li> </ul>	19/02	arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to
	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• {Managing print media, e.g. determining available sheet sizes (feeding means</li> </ul>		arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to avoid wear during transport through the machine
15/4065	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> </ul>	19/022	arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to avoid wear during transport through the machine  • {Processes or apparatus therefor}
	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking</li> </ul>		arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to avoid wear during transport through the machine  {Processes or apparatus therefor}  {the material being flexible or adapted for
15/4065 15/407	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking available colours}</li> </ul>	19/022	arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to avoid wear during transport through the machine  {Processes or apparatus therefor}  {the material being flexible or adapted for folding, e.g. paper or paper-like materials used
15/4065	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking</li> </ul>	19/022	arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to avoid wear during transport through the machine  {Processes or apparatus therefor}  {the material being flexible or adapted for
15/4065 15/407	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking available colours}</li> <li>• • {Determining remaining quantities of ink or</li> </ul>	19/022	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable</li> </ul>
15/4065 15/407 15/4075	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• {Managing marking material, e.g. checking available colours}</li> <li>• • {Determining remaining quantities of ink or toner}</li> <li>• {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer</li> </ul>	19/022	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00;</li> </ul>
15/4065 15/407 15/4075 15/408	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• {Managing marking material, e.g. checking available colours}</li> <li>• • {Determining remaining quantities of ink or toner}</li> <li>• {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> </ul>	19/022	arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to avoid wear during transport through the machine  {Processes or apparatus therefor}  {the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like
15/4065 15/407 15/4075 15/408	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• {Managing marking material, e.g. checking available colours}</li> <li>• • {Determining remaining quantities of ink or toner}</li> <li>• {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>• {Handling paper jams}</li> </ul>	19/022 19/025	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking available colours}</li> <li>• • {Determining remaining quantities of ink or toner}</li> <li>• • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>• • {Handling paper jams}</li> <li>• • {Handling power failures}</li> </ul>	19/022	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile,</li> </ul>
15/4065 15/407 15/4075 15/408	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking available colours}</li> <li>• • {Determining remaining quantities of ink or toner}</li> <li>• • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>• • {Handling paper jams}</li> <li>• • {Handling power failures}</li> <li>• • {Secure printing (computer driven secure printing</li> </ul>	19/022 19/025	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking available colours}</li> <li>• • {Determining remaining quantities of ink or toner}</li> <li>• • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>• • {Handling paper jams}</li> <li>• • {Handling power failures}</li> </ul>	19/022 19/025	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409	<ul> <li>• • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>• • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>• • {Managing marking material, e.g. checking available colours}</li> <li>• • • {Determining remaining quantities of ink or toner}</li> <li>• • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>• • • {Handling paper jams}</li> <li>• • • {Handling power failures}</li> <li>• • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting co-</li> </ul>	19/022 19/025	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments</li> </ul>	19/022 19/025	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments covered by two or more of main groups</li> </ul>	19/022 19/025 19/027	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}</li> <li>characterised by the shape</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments covered by two or more of main groups G06K 1/00 - G06K 15/00, e.g. automatic card files</li> </ul>	19/022 19/025 19/027	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}</li> <li>characterised by the shape</li> <li>{Constructional details (G06K 19/06 takes precedence)}</li> <li>{the record carrier having a form factor of a</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095 <b>17/00</b>	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments covered by two or more of main groups G06K 1/00 - G06K 15/00, e.g. automatic card files incorporating conveying and reading operations</li> </ul>	19/022 19/025 19/027 19/04 19/041	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}</li> <li>characterised by the shape</li> <li>{Constructional details (G06K 19/06 takes precedence)}</li> <li>{the record carrier having a form factor of a credit card and including a small sized disc,</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments covered by two or more of main groups G06K 1/00 - G06K 15/00, e.g. automatic card files incorporating conveying and reading operations</li> <li>. {Automatic card files incorporating selecting,</li> </ul>	19/022 19/025 19/027 19/04 19/041	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}</li> <li>characterised by the shape</li> <li>{Constructional details (G06K 19/06 takes precedence)}</li> <li>{the record carrier having a form factor of a credit card and including a small sized disc, e.g. a CD or DVD (disc shaped data carriers in</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095 <b>17/00</b>	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments covered by two or more of main groups G06K 1/00 - G06K 15/00, e.g. automatic card files incorporating conveying and reading operations</li> </ul>	19/022 19/025 19/027 19/04 19/041 19/042	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}</li> <li>characterised by the shape</li> <li>{Constructional details (G06K 19/06 takes precedence)}</li> <li>{the record carrier having a form factor of a credit card and including a small sized disc, e.g. a CD or DVD (disc shaped data carriers in general, see G11B 20/00 and G11B 23/00)}</li> </ul>
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095 <b>17/00</b>	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments covered by two or more of main groups G06K 1/00 - G06K 15/00, e.g. automatic card files incorporating conveying and reading operations</li> <li>. {Automatic card files incorporating selecting, conveying and possibly reading and/or writing operations}</li> <li>. {with random access selection of a record carrier</li> </ul>	19/022 19/025 19/027 19/04 19/041	arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}  characterised by the selection of materials, e.g. to avoid wear during transport through the machine  {Processes or apparatus therefor}  {the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}  {the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}  characterised by the shape  {Constructional details (G06K 19/06 takes precedence)}  {the record carrier having a form factor of a credit card and including a small sized disc, e.g. a CD or DVD (disc shaped data carriers in general, see G11B 20/00 and G11B 23/00)}  {comprising galvanic contacts for contacting
15/4065 15/407 15/4075 15/408 15/4085 15/409 15/4095 17/00	<ul> <li>. • {Wake-up procedures (start-up of a laser scanner G06K 15/1219)}</li> <li>. • {Managing print media, e.g. determining available sheet sizes (feeding means G06K 15/16)}</li> <li>. • {Managing marking material, e.g. checking available colours}</li> <li>. • {Determining remaining quantities of ink or toner}</li> <li>. • {Handling exceptions, e.g. faults (computer driven error handling and recovery for a printer G06F 3/1234)}</li> <li>. • {Handling paper jams}</li> <li>. • {Handling power failures}</li> <li>. • {Secure printing (computer driven secure printing G06F 3/1238)}</li> <li>Methods or arrangements for effecting cooperative working between equipments covered by two or more of main groups G06K 1/00 - G06K 15/00, e.g. automatic card files incorporating conveying and reading operations</li> <li>. {Automatic card files incorporating selecting, conveying and possibly reading and/or writing operations}</li> <li>. {with random access selection of a record carrier from the card-file, e.g. the carriers are suspended</li> </ul>	19/022 19/025 19/027 19/04 19/041 19/042	<ul> <li>arrangement that makes the record carrier fit into an etui or a casing (ticket holders A45C 11/18)}</li> <li>characterised by the selection of materials, e.g. to avoid wear during transport through the machine</li> <li>{Processes or apparatus therefor}</li> <li>{the material being flexible or adapted for folding, e.g. paper or paper-like materials used in luggage labels, identification tags, forms or identification documents carrying RFIDs (methods for testing the genuineness of valuable papers, e.g. banknotes or passports G07D 7/00; constructional features of booklets and the like B42D)}</li> <li>{the material being suitable for use as a textile, e.g. woven-based RFID-like labels designed for attachment to laundry items (markings attached to laundry items in general D06F 93/00)}</li> <li>characterised by the shape</li> <li>{Constructional details (G06K 19/06 takes precedence)}</li> <li>{the record carrier having a form factor of a credit card and including a small sized disc, e.g. a CD or DVD (disc shaped data carriers in general, see G11B 20/00 and G11B 23/00)}</li> </ul>
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19/048	• • • {the record carrier being shaped as a key}	2019/0629 {Holographic, diffractive or retroreflective
19/06	<ul> <li>characterised by the kind of the digital marking, e.g. shape, nature, code</li> </ul>	recording } 19/063 • the carrier being marginally punched or notched,
19/06009	• • {with optically detectable marking	e.g. having elongated slots
10/06019	( <u>G06K 19/063</u> , <u>G06K 19/08</u> take precedence)}	<ul> <li>19/067 . Record carriers with conductive marks, printed circuits or semiconductor circuit elements, e.g.</li> </ul>
19/06018 19/06028	<ul><li> {one-dimensional coding}</li><li> {using bar codes}</li></ul>	credit or identity cards {also with resonating or
19/06028	<ul><li> {using our codes}</li><li> {multi-dimensional coding}</li></ul>	responding marks without active components}
19/06046	{Constructional details}	19/0672 • • • {with resonating marks}
	• • • {constructional details} • • • {the marking comprising a further embedded	19/0675 {the resonating marks being of the surface
17/00030	marking, e.g. a 1D bar code with the black	acoustic wave [SAW] kind (SAW devices
	bars containing a smaller sized coding}	per se H03H 9/64)}
19/06065	• • • {the marking being at least partially	19/0677 {the record carrier being programmable}
	represented by holographic means	19/07 with integrated circuit chips
	(holographic marking in general, see	19/0701 { at least one of the integrated circuit chips comprising an arrangement for power
19/06075	G06K 19/16)} {the marking containing means for error	management)
19/00073	correction}	19/0702 {the arrangement including a battery}
19/06084	• • • • {the marking being based on nanoparticles or	19/0703 {the battery being onboard of a
13,00001	microbeads}	handheld device, e.g. a smart phone or
19/06093	• • • {the marking being constructed out of a	PDA}
	plurality of similar markings, e.g. a plurality	19/0704 • • • • • { the battery being rechargeable, e.g.
	of barcodes randomly oriented on an object}	solar batteries}
19/06103	`	19/0705 {the battery being connected to a power
	recognizable image, e.g. a company logo with an embedded two-dimensional code }	saving arrangement} 19/0706 {the battery being replaceable}
19/06112	• • • • {the marking being simulated using a light	19/0707 {the arrangement being capable of
19/00112	source, e.g. a barcode shown on a display	collecting energy from external energy
	or a laser beam with time-varying intensity	sources, e.g. thermocouples, vibration,
	profile}	electromagnetic radiation (G06K 19/0702
19/06121		takes precedence)}
	out, e.g. a barcode machined in a metal	19/0708 {the source being electromagnetic or
10/04/04	work-piece}	magnetic}
19/06131	• • • • {the marking comprising a target pattern, e.g. for indicating the center of the bar code	19/0709 {the source being an interrogation field}
	or for helping a bar code reader to properly	19/071 {the source being a field other than
	orient the scanner or to retrieve the bar code	an interrogation field, e.g. WLAN,
	inside of an image}	cellular phone network}
19/0614	• • • {the marking being selective to wavelength,	19/0711 {the source being mechanical or
	e.g. color barcode or barcodes only visible	acoustical}
	under UV or IR (methods or arrangements for sensing record carriers using a selected	19/0712 {the arrangement being capable of
	wavelength, see G06K 7/12)}	triggering distinct operating modes or functions dependent on the strength of
19/0615	• • • { the marking being of the rewritable type,	an energy or interrogation field in the
	e.g. thermo-chromic barcodes}	proximity of the record carrier (active
19/06159	• • • {the marking being relief type, e.g. three-	means for hindering electromagnetic
	dimensional bar codes engraved in a	reading or writing <u>G06K 19/07336</u> )}
10/04/40	support}	19/0713 {the arrangement including a power
19/06168	• • • {the marking being a concentric barcode}	charge pump}
19/061/8	• • • • {the marking having a feature size being smaller than can be seen by the unaided	19/0715 {the arrangement including means to regulate power transfer to the integrated
	human eye}	circuit}
19/06187	• • {with magnetically detectable marking}	19/0716 {at least one of the integrated circuit chips
	• • {Constructional details}	comprising a sensor or an interface to a
	• • { the magnetic marking being emulated }	sensor}
2019/06215	• • {Aspects not covered by other subgroups}	19/0717 {the sensor being capable of sensing
2019/06225	• • {using wavelength selection, e.g. colour code}	environmental conditions such as
	• • {miniature-code}	temperature history or pressure}
	{concentric-code}	19/0718 {the sensor being of the biometric kind, e.g. fingerprint sensors (fingerprint
	• • • {for a specific application}	sensors in general <u>G06V 40/13</u> ; biometric
2019/06262	• • • {with target- or other orientation-indicating feature}	access-control systems in general, see
2019/06271	• • • {Relief-type marking}	<u>G07C 9/00</u> )}
	• • {Rener-type marking} • • • {rewritable}	
2017/00201	(10//11/10/10)	

19/0719 { at least one of the integrated circuit chips comprising an arrangement for application	19/07372 {by detecting tampering with the circuit}
selection, e.g. an acceleration sensor or a set of radio buttons (application selection on smart cards using pure software control, <u>see</u>	19/07381 { with deactivation or otherwise incapacitation of at least a part of the circuit upon detected tampering }
<u>G07F 7/10</u> )} 19/072 {the record carrier comprising a plurality of	19/0739 { the incapacitated circuit being part of an antenna }
integrated circuit chips} 19/0721 {the plurality of chips mutually	19/077 Constructional details, e.g. mounting of circuits in the carrier
cooperating so as to represent itself to the world as a single entity}	19/07701 { the record carrier comprising an interface suitable for human interaction }
19/0722 {comprising an arrangement for testing the	19/07703 {the interface being visual}
record carrier }  19/0723 { the record carrier comprising an arrangement for non-contact communication, e.g. wireless communication circuits on	19/07705 {the visual interface being a single light or small number of lights capable of being switched on or off, e.g. a series of LEDs}
transponder cards, non-contact smart cards or RFIDs}	19/07707 { the visual interface being a display, e.g. LCD or electronic ink }
19/0724 { the arrangement being a circuit	19/07709 {the interface being a keyboard}
for communicating at a plurality of	19/07711 {the interface being an audio interface}
frequencies, e.g. for managing time	19/07713 {the interface, upon reception of an
multiplexed communication over at least two antennas of different types}  19/0725 {the arrangement being a circuit for	interrogation signal, being capable of signaling to indicate its position to a user or a detection device}
emulating a plurality of record carriers, e.g. a single RFID tag capable of representing itself to a reader as a cloud of RFID tags}	19/07715 { the interface being used to indicate that the record carrier is active, e.g. a blinking light to indicate that the record
19/0726 { the arrangement including a circuit for tuning the resonance frequency of an	carrier is busy communicating with a secondary device or busy computing}  19/07716 {the record carrier comprising means for
antenna on the record carrier} 19/0727 {the arrangement being a circuit	customization, e.g. being arranged for personalization in batch}
facilitating integration of the record carrier with a hand-held device such as a smart phone of PDA}	19/07718 {the record carrier being manufactured in a continuous process, e.g. using endless rolls}
19/0728 {the arrangement being an optical or	19/0772 {Physical layout of the record carrier}
sound-based communication interface \} 19/073 Special arrangements for circuits, e.g. for	19/07722 {the record carrier being multilayered,
protecting identification code in memory (protection against unauthorised use of	e.g. laminated sheets (flat articles in general, see B32B 37/00)}
computer memory G06F 12/14)	19/07724 {the record carrier being at least partially made by a molding process
19/07309 {Means for preventing undesired reading or writing from or onto record carriers}	(molding in general <u>B29C 45/14</u> )}
19/07318 {by hindering electromagnetic reading or writing (jamming of communication,	19/07726 {the record comprising means for indicating first use, e.g. a frangible layer}
counter-measures <u>H04K 3/00</u> ; secret communication <u>H04K 1/00</u> )}	19/07728 {the record carrier comprising means
19/07327 {Passive means, e.g. Faraday cages (Faraday-type protection of electric	for protection against impact or bending, e.g. protective shells or stress-absorbing layers around the integrated circuit}
circuits in general <u>H05K 9/00</u> )}	19/0773 {the record carrier comprising means
19/07336 {Active means, e.g. jamming or scrambling of the electromagnetic field}	to protect itself against external heat sources}
19/07345 {by activating or deactivating at least a	19/07732 {the record carrier having a housing
part of the circuit on the record carrier, e.g. ON/OFF switches}	or construction similar to well-known portable memory devices, such as SD cards, USB or memory sticks (housings
19/07354 {by biometrically sensitive means, e.g. fingerprint sensitive (fingerprint	for electrical equipment in general, see H05K 5/02)}
sensors in general G06V 40/12; biometrically activated access control G07C 9/25)}	19/07733 {the record carrier containing at least one further contact interface not
19/07363 {by preventing analysis of the circuit,	conform ISO-7816} 19/07735 {the record carrier comprising means
e.g. dynamic or static power analysis or current analysis}	for protecting against electrostatic discharge}

19/07737 { the record carrier consisting of two or more mechanically separable parts }	19/07771 {the record carrier comprising means for minimising adverse effects on
19/07739 { comprising a first part capable of functioning as a record carrier on its own and a second part being only functional as a form factor changing part, e.g. SIM cards type ID 0001,	the data communication capability of the record carrier, e.g. minimising Eddy currents induced in a proximate metal or otherwise electromagnetically interfering object}
removably attached to a regular smart card form factor}	19/07773 {Antenna details (antennas for wireless devices, e.g. RFID tags, in general
19/07741 {comprising a first part operating as a regular record carrier and a second	H01Q 1/22)} 19/07775 {the antenna being on-chip}
attachable part that changes the	19/07/77 {the antenna being off-chip}
functional appearance of said record	type}
carrier, e.g. a contact-based smart card with an adapter part which, when	19/07779 {the inductive antenna being a coil}
attached to the contact card makes the	19/07781 { the coil being fabricated in a winding process}
contact card function as a non-contact	19/07783 {the coil being planar}
card}	19/07784 {the inductive antenna consisting of
19/07743 {External electrical contacts} 19/07745 {Mounting details of integrated circuit	a plurality of coils stacked on top of
chips}	one another} 19/07786 {the antenna being of the HF type,
19/07747 { at least one of the integrated circuit	such as a dipole}
chips being mounted as a module} 19/07749 {the record carrier being capable of non-	19/07788 {the antenna being of the capacitive
contact communication, e.g. constructional	type} 19/0779 {the antenna being foldable or folded}
details of the antenna of a non-contact	19/07792 {the antenna adapted for extending in
smart card} 19/0775 {arrangements for connecting the	three dimensions}
integrated circuit to the antenna}	19/07794 {the record carrier comprising a booster or auxiliary antenna in
19/07752 {using an interposer}	addition to the antenna connected
19/07754 {the connection being galvanic}	directly to the integrated circuit}
19/07756 {the connection being non-galvanic, e.g. capacitive}	19/07796 { arrangements on the record carrier to allow stacking of a plurality of similar
19/07758 {arrangements for adhering the record	record carriers, e.g. to avoid interference
carrier to further objects or living	between the non-contact communication
beings, functioning as an identification tag}	of the plurality of record carriers \\ 19/07798 \{ part of the antenna or the integrated
19/0776 {the adhering arrangement being a	circuit being adapted for rupturing or
layer of adhesive, so that the record carrier can function as a sticker}	breaking, e.g. record carriers functioning
19/07762 { the adhering arrangement making	as sealing devices for detecting not- authenticated opening of containers
the record carrier wearable, e.g.	(electronic seals <u>G09F 3/03</u> )}
having the form of a ring, watch, glove or bracelet (record carriers	19/08 using markings of different kinds (or more than
for insertion in the human body for	one marking of the same kind} in the same record carrier, e.g. one marking being sensed by optical
medical purposes A61B 90/00; record	and the other by magnetic means
carriers adapted for attachment to animals <u>A01K 11/00</u> )}	19/083 {Constructional details}
19/07764 { the adhering arrangement making	19/086 { with markings consisting of randomly placed or oriented elements, the randomness
the record carrier attachable to a tire	of the elements being useable for generating
(tire temperature or pressur control arrangements, see <u>B60C 23/00</u> )}	a unique identifying signature of the record
19/07766 {comprising at least a second	carrier, e.g. randomly placed magnetic fibers or magnetic particles in the body of a credit
communication arrangement in addition	card}
to a first non-contact communication arrangement }	19/10 at least one kind of marking being used for
19/07767 { the first and second communication	authentication, e.g. of credit or identity cards (verification of coded identity or credit cards in
means being two different antennas	mechanisms actuated by them G07F 7/12)
types, e.g. dipole and coil type, or two antennas of the same kind but	19/12 the marking being sensed by magnetic means
operating at different frequencies}	19/14 the marking being sensed by radiation
19/07769 {the further communication means	
being a galvanic interface, e.g. hybrid or mixed smart cards having a contact	
and a non-contact interface}	

19/145	• • • • {at least one of the further markings being	2215/0042 Rasterisation
	adapted for galvanic or wireless sensing,	2215/0045 Converting outline to bitmap
	e.g. an RFID tag with both a wireless	2215/0048 Converting skeleton to bitmap
	and an optical interface or memory, or a contact type smart card with ISO	2215/0051 from compressed bitmap, e.g. run length
	7816 contacts and an optical interface or	2215/0054 Geometric transformations, e.g. on rasterised
	memory }	data
19/16	the marking being a hologram or diffraction	2215/0057 Sizing and resolution changes
	grating	2215/006 Anti-aliasing raster data
19/18	Constructional details	2215/0062 combining generic and host data, e.g. filling a
21/00		raster
21/00	Information retrieval from punched cards	2215/0065 Page or partial page composition 2215/0068 Line composition, e.g. kerning
	designed for manual use or handling by machine (G06K 19/00 takes precedence; detection	2215/0068 Line composition, e.g. kerning 2215/0071 Post-treatment of the composed image, e.g.
	or correction of errors by rescanning patterns	compression, rotation
	G06V 10/98; checking correct operation of card-	2215/0074 Depleting the image
	conveying mechanisms G06K 13/06); Apparatus for	2215/0077 . Raster outputting to the print element(s)
	handling such cards, e.g. marking or correcting	2215/008 from more than one raster memory
21/002	• {Selecting of marginally notched cards (card filling	2215/0082 • Architecture adapted for a particular function
	arrangements <u>B42F 17/00</u> )}	2215/0085 • Error recovery
21/005	• • {the selected cards being displaced laterally	2215/0088 . Collated printing
	relative to the remaining stationary card-file}	2215/0091 . Outputting only video data, e.g. Hard copy of
21/007	• • {the selected cards being restrained and the	CRT display
24/02	remaining card-file being laterally displaced}	2215/0094 Colour printing
21/02	• in which coincidence of markings is sensed	2215/0097 . Printing on special media, e.g. labels, envelopes
21/04	mechanically, e.g. by needle	2215/101 • involving the use of ink jets
21/04	<ul> <li>in which coincidence of markings is sensed optically, e.g. peek-a-boo system</li> </ul>	2215/111 • with overlapping swaths
21/06	Apparatus or tools adapted for slotting or otherwise	
21/00	marking information-retrieval cards	
21/08	Apparatus or tools for correcting punching or	
	slotting errors {and regeneration of record carriers}	
21/085	• • {for punched tapes}	
21/003	• • (for punched tapes)	
	• •	
2207/00	Other aspects	
<b>2207/00</b> 2207/1011	Other aspects . Aiming	
<b>2207/00</b> 2207/1011 2207/1012	Other aspects      Aiming     Special detection of object	
2207/00 2207/1011 2207/1012 2207/1013	Other aspects      Aiming     Special detection of object     Multi-focal	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015	Other aspects      Aiming     Special detection of object     Multi-focal     Hologram	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016	Other aspects      Aiming     Special detection of object     Multi-focal     Hologram     Motor control or optical moving unit control	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017	Other aspects      Aiming     Special detection of object     Multi-focal     Hologram     Motor control or optical moving unit control     Programmable	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/00	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/00	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/00	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data  Accepting output data; Preparing data for the	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/00 2215/0002 2215/0005	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data  Accepting output data; Preparing data for the controlling system	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0005	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data; Preparing data for the controlling system  Downloading generic data	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0005	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0005	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data; Preparing data for the controlling system  Accepting output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language,	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0005 2215/0008 2215/0001	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data; Preparing data for the controlling system  Accepting output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0005 2215/0008 2215/0001	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data; Preparing data for the controlling system  Accepting output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language,	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/00 2215/0002 2215/0005 2215/0008 2215/0011	Other aspects  Aiming  Special detection of object  Multi-focal  Hologram  Motor control or optical moving unit control  Programmable  Source control  Arrangements for producing a permanent visual presentation of the output data  Handling the output data; Preparing data for the controlling system  Downloading generic data  Characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/00 2215/0002 2215/0005 2215/0008 2215/0011	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data Handling the output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0008 2215/0011 2215/0014 2215/0017	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data  Accepting output data; Preparing data for the controlling system  Downloading generic data  Accepting output data  Preparing data for the controlling system  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data  Generic data access	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0008 2215/0011 2215/0017 2215/002 2215/002 2215/002	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data  Accepting output data; Preparing data for the controlling system  Downloading generic data  Accepting output data  Preparing data for the controlling system  Transforming the printer input data into internal codes  Transforming data for the controlling system, e.g. status, memory data  Generic data access  Characterised by the storage means used	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018 2215/000 2215/0002 2215/0008 2215/0011 2215/0017 2215/002 2215/0022 2215/0025	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data  Handling the output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data  Generic data access  characterised by the storage means used  Removable memories, e.g. cartridges	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018  2215/000 2215/0002 2215/0008 2215/0011  2215/0017  2215/002 2215/0025 2215/0025 2215/0028	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data Handling the output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data  Generic data access  characterised by the storage means used  Removable memories, e.g. cartridges  characterised by the format per se	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018  2215/000  2215/0002 2215/0008 2215/0011  2215/0014  2215/002 2215/0022 2215/0028 2215/0028 2215/0031	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data Handling the output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data  Generic data access  characterised by the storage means used  Removable memories, e.g. cartridges  characterised by the format per se  characterised bit maps	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018  2215/000  2215/0002 2215/0008 2215/0011  2215/0014  2215/002 2215/0022 2215/0022 2215/0028 2215/0031 2215/0034	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data  Accepting output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data  Generic data access  characterised by the storage means used  Removable memories, e.g. cartridges  characterised by the format per se  characterised bit maps  Compressed bit maps  Couline coding	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018  2215/000  2215/0002 2215/0008 2215/0011  2215/0014  2215/002 2215/0022 2215/0022 2215/0028 2215/0031 2215/0034	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data  Accepting output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data  Generic data access  characterised by the storage means used  Removable memories, e.g. cartridges  characterised by the format per se  characterised by the format per se  Compressed bit maps  Coutline coding  depending on an output condition, e.g. size,	
2207/00 2207/1011 2207/1012 2207/1013 2207/1015 2207/1016 2207/1017 2207/1018  2215/000  2215/0002 2215/0008 2215/0011  2215/0014  2215/002 2215/0022 2215/0022 2215/0028 2215/0031 2215/0034	Other aspects  Aiming Special detection of object Multi-focal Hologram Motor control or optical moving unit control Programmable Source control  Arrangements for producing a permanent visual presentation of the output data Handling the output data  Accepting output data; Preparing data for the controlling system  Downloading generic data  characterised by a particular command or data flow, e.g. Page Description Language, configuration commands  Transforming the printer input data into internal codes  Preparing data for the controlling system, e.g. status, memory data  Generic data access  characterised by the storage means used  Removable memories, e.g. cartridges  characterised by the format per se  characterised bit maps  Compressed bit maps  Couline coding	