EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

NOTICE OF EDITORIAL CORRECTIONS

PUBLICATION DATE: November 1, 2015

Summary of Editorial Corrections

Publication Type (Scheme Or Definition)	Error/Correction Description	Subclasses Impacted
Scheme	removed/adjusted braces for IPC groups with no "IPC" text (to more closely align with IPC titles)	VARIOUS
Scheme	wrap (tag) reference parts in parentheses	VARIOUS
Scheme	Capitalized title text for F05 and subsections of sections A-G	Class F05 Sections A-G
Scheme	moved note from guidance heading title	C07D
Scheme	Moved some notes from A01N3/04 to following Guidance heading (aligned with IPC)	A01N
Scheme	reformatted notes	B61B, G07B, G05D, G01D, H04Q, A61M
Scheme	White space fixes to notes/warnings	VARIOUS
Scheme - PDF	Added dictionary style headers for groups/classes covered by Guidance or Subsection Headings	VARIOUS
Definition	- reformatted Reference sections (placed references in tables) - removed duplicate reference symbols appearing in left and right columns	B60H, B65D, B65H, B64C, D03D, D05B, D06B, D07B, F02C, F25D, F41A, G01C, G01S
Definition	Added back preamble lost in initial conversion to References relevant of Subclass and C23F1/00	C23F
Definition	Removed duplicate image (causing overflow)	A41C
Definition	Fixed overflow issue	A47G, A61B, B29C, B65H

Notes:
- The corrections listed above are directed to existing errors in the CPC Scheme, Definitions, and/or Concordance.
- Corrections may impact the XML, the content itself, and/or the published formats.
- Corrections do not change the scope of the subclasses/groups, but may clarify the scope in cases where errors occurred.

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Appendix – Title Corrections (adjustment of braces for IPC and parentheses for reference parts)

Symbol	Old title	Updated title
A44B19/04	{Stringers arranged edge to edge when fastened, e.g. abutting stringers}	Stringers arranged edge-to-edge when fastened {, e.g. abutting stringers}
A61B5/0456	{Detecting R peaks, e.g. for synchronising diagnostic apparatus}(physiological signal analysis for synchronising or triggering a measurement or image acquisition A61B5/7285)	Detecting R peaks, e.g. for synchronising diagnostic apparatus {(physiological signal analysis for synchronising or triggering a measurement or image acquisition A61B5/7285)}
A61B10/02	{Instruments for taking a cell sample or for biopsy (A61B10/0038 and A61B10/0045 take precedence; needle locating or guiding means A61B17/3403; samplers for enzymology or microbiology C12M1/26; sampling or preparing biological specimens G01N33/48)}	Instruments for taking cell samples or for biopsy {(A61B10/0038 and A61B10/0045 take precedence; needle locating or guiding means A61B17/3403; samplers for enzymology or microbiology C12M1/26; sampling or preparing biological specimens G01N33/48)}
A61B17/068	{Surgical staplers, e.g. containing multiple staples or clamps}(staplers containing only one staple A61B17/10; magazines or containers for staples A61B17/105; for performing anastomosis A61B17/115; {staplers in general B25C5/00 })	Surgical staplers {, e.g. containing multiple staples or clamps}({staplers containing only one staple A61B17/10; magazines or containers for staples A61B17/105;} for performing anastomosis A61B17/115; {staplers in general B25C5/00 })
A61M2005/1586	{Holding accessories for holding infusion needles on the body holding devices for catheters A61M25/02 }	{Holding accessories for holding infusion needles on the body (holding devices for catheters A61M25/02)}
A63C5/03	{Mono skis; Snowboards}	Mono skis; Snowboards
A63C17/08	{Single-wheel type with single axis}	Single-wheel type {with single axis}
B05C17/005	{for discharging material from a reservoir or container located in or on the hand tool through an outlet orifice by pressure without using surface contacting members like pads or brushes}	for discharging material {from a reservoir or container located in or on the hand tool} through an outlet orifice by pressure {without using surface contacting members like pads or brushes}
B21J15/06	{Riveting hollow rivets by means of hydraulic, liquid, or gas pressure (portable riveters B21J15/105)}	Riveting hollow rivets by means of hydraulic, liquid, or gas pressure {(portable riveters B21J15/105)}

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B29C47/06	{Multilayered articles or multi-component articles}	Multilayered articles {or multi-component articles}
B29C47/60	{Screws}(screws characterized by the material or by their manufacturing process B29C47/0844)	Screws {(screws characterized by the material or by their manufacturing process B29C47/0844)}
B29C65/30	{Electrical means (B29C65/38 takes precedence)}	Electrical means {(B29C65/38 takes precedence)}
B29C65/52	{characterised by the way of applying the adhesive (B29C65/50 takes precedence; apparatus for applying liquids in general B05C; processes for applying liquids in general B05D)}	{characterised by the way of} applying the adhesive {(B29C65/50 takes precedence; apparatus for applying liquids in general B05C; processes for applying liquids in general B05D)}
B29C69/00	{Combinations of shaping techniques not provided for in a single one of main groups B29C39/00 to B29C67/00, e.g. associations of moulding and joining techniques; Apparatus therefore (B29C47/0038 takes precedence)}	Combinations of shaping techniques not provided for in a single one of main groups B29C39/00 to B29C67/00, e.g. associations of moulding and joining techniques; Apparatus therefore {(B29C47/0038 takes precedence)}
B29K2227/06	{PVC, i.e. polyvinylchloride (as such C08L27/06)}	PVC, i.e. polyvinylchloride {(as such C08L27/06)}
B29K2427/06	{PVC, i.e. polyvinylchloride (as such C08L27/06)}	PVC, i.e. polyvinylchloride {(as such C08L27/06)}
B29K2505/14	{Noble metals, e.g. Silver, Gold, Platinum}	Noble metals, e.g. Silver, Gold, Platinum
B29K2627/06	{PVC, i.e. polyvinylchloride (as such C08L27/06)}	PVC, i.e. polyvinylchloride {(as such C08L27/06)}
B29K2701/10	{Thermosetting resins}	Thermosetting resins
B29K2701/12	{Thermoplastic materials}	Thermoplastic materials
B29K2705/14	{Noble metals, e.g. Silver, Gold, Platinum}	Noble metals, e.g. Silver, Gold, Platinum
B32B21/02	{the layer being formed of fibres, chips, or particles, e.g. MDF, HDF, OSB, chipboard, particle board, hardboard}	{the layer being formed} of fibres, chips, or particles {, e.g. MDF, HDF, OSB, chipboard, particle board, hardboard}

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B32B21/04	{comprising wood as the main or only constituent of a layer, which is next to another layer of the same or of a different material}(B32B17/062 and B32B23/044 take precedence; next to a layer of a particular substance B32B9/042; next to a bituminous or tarry layer B32B11/042; next to a water setting substance layer B32B13/10; next to a metal layer B32B15/10; next to a layer formed of natural mineral fibres or particles B32B19/042)	comprising wood as the main or only constituent of a layer {, which is next to another layer of the same or of a different material (B32B17/062 and B32B23/044 take precedence; next to a layer of a particular substance B32B9/042; next to a bituminous or tarry layer B32B11/042; next to a water setting substance layer B32B13/10; next to a metal layer B32B15/10; next to a layer formed of natural mineral fibres or particles B32B19/042)}
B44D5/00	{Surface treatment to obtain special artistic surface effects or finishes (pretreatment or after-treatment of surface coated by applying liquids B05D3/00; obtaining special surface effects by applying liquids or other fluent materials to surfaces B05D5/00; surface shaping of plastics, e.g. embossing, B29C59/00)}	Surface treatment to obtain special artistic surface effects or finishes (pretreatment or after-treatment of surface coated by applying liquids B05D3/00; obtaining special surface effects by applying liquids or other fluent materials to surfaces B05D5/00; surface shaping of plastics, e.g. embossing, B29C59/00)
B60C19/12	Puncture preventing arrangements (B60C9/00 takes precedence; inflatable inserts having reinforcing means B60C5/08); {sealing compositions per se B29C73/163; devices for introducing sealing compositions into the tyre B29C73/166 }	Puncture preventing arrangements (B60C9/00 takes precedence; inflatable inserts having reinforcing means B60C5/08 {; sealing compositions per se B29C73/163; devices for introducing sealing compositions into the tyre B29C73/166 })
B60G5/047	{at least one arm being resilient, e.g. a leafspring (B60G5/053 takes precedence)}	at least one arm being resilient, e.g. a leafspring (B60G5/053 takes precedence)
B60G9/04	{the axle or housing not being pivotally mounted on the vehicle (B60G9/003 takes precedence)}	the axle or housing not being pivotally mounted on the vehicle {(B60G9/003 takes precedence)}

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B60S5/00	Servicing, maintaining, repairing or refitting of vehicles ({collecting or removing exhaust gases in workshops B08B15/002; straightening vehicle body parts B21D1/12, B21D1/14 }; vehicles adapted to carry a workshop for servicing or maintenance B60P3/14; servicing rail locomotives B61K); {registering or indicating the working of vehicles G07C5/00: testing of vehicles G01M17/00; arrangements for electrical testing G01R31/00; devices for monitoring or checking brake systems B60T17/22; filling or draining lubricant F01M11/04; means for collecting, retaining, or draining-off lubricant F16N31/00; draining of lubricant from gearing F16H57/0406; assembly or repair of springs or dampers F16F9/3271; tool, instrument or work supports or storage means used in association with vehicles B25H5/00 }	Servicing, maintaining, repairing or refitting of vehicles ({collecting or removing exhaust gases in workshops B08B15/002; straightening vehicle body parts B21D1/12, B21D1/14 }; vehicles adapted to carry a workshop for servicing or maintenance B60P3/14; servicing rail locomotives B61K; {registering or indicating the working of vehicles G07C5/00: testing of vehicles G01M17/00; arrangements for electrical testing G01R31/00; devices for monitoring or checking brake systems B60T17/22; filling or draining lubricant F01M11/04; means for collecting, retaining, or draining-off lubricant F16N31/00; draining of lubricant from gearing F16H57/0406; assembly or repair of springs or dampers F16F9/3271; tool, instrument or work supports or storage means used in association with vehicles B25H5/00 })
B60S9/00	Ground-engaging vehicle fittings for supporting, lifting, or manoeuvring the vehicle, wholly or in part, e.g. built-in jacks {props for vehicle draw bars B60D1/66; anti-theft devices acting on vehicle jacking means B60R25/001 }; (lifting devices in general B66F, supports in general F16M)	Ground-engaging vehicle fittings for supporting, lifting, or manoeuvring the vehicle, wholly or in part, e.g. built-in jacks ({props for vehicle draw bars B60D1/66; anti-theft devices acting on vehicle jacking means B60R25/001 }; lifting devices in general B66F, supports in general F16M)
B62D55/215	{Resilient connections between links}	Resilient connections between links
B63B35/71	{Canoes, kayaks or the like (collapsible, foldable, inflatable or like vessels B63B7/00)}	Canoes, kayaks or the like {(collapsible, foldable, inflatable or like vessels B63B7/00)}
B63G8/38	{Arrangement of visual or electronic watch equipment, e.g. of periscopes, of radar}(periscopes, optical aiming or sighting devices per se G02B23/00)	Arrangement of visual or electronic watch equipment, e.g. of periscopes, of radar {(periscopes, optical aiming or sighting devices per se G02B23/00)}
B64C27/51	{Damping of blade movements}	Damping of blade movements

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B64D10/00	{Flying suits (helmets in general A42B3/00; breathing helmets A62B18/00)}	Flying suits (helmets in general A42B3/00; breathing helmets A62B18/00)
B65D81/3858	{formed of different materials, e.g. laminated or foam filling between walls; for shock absorbing purposes B65D81/1275 }	{formed of different materials, e.g. laminated or foam filling between walls; (for shock absorbing purposes B65D81/1275)}
C07C2/88	{Growth and elimination reactions (preparation of metallo-organic compounds C07F)}	Growth and elimination reactions {(preparation of metallo-organic compounds C07F)}
C07F7/24	{Lead compounds}	Lead compounds
C07F9/6541	{condensed with carbocyclic rings or carbocyclic ring systems}	condensed with carbocyclic rings or {carbocyclic} ring systems
C07F9/6547	{condensed with carbocyclic rings or carbocyclic ring systems}	condensed with carbocyclic rings or {carbocyclic} ring systems
C08B1/00	{Preparatory treatment of cellulose for making derivatives thereof, e.g. pre-treatment, pre-soaking, activation}	Preparatory treatment of cellulose for making derivatives thereof {, e.g. pre-treatment, pre-soaking, activation}
C08B3/06	{Cellulose acetate, e.g. mono-acetate, di-acetate or tri-acetate}	Cellulose acetate {, e.g. mono-acetate, di-acetate or tri-acetate}
C08F4/6192	{containing at least one cyclopentadienyl ring, condensed or not, e.g. an indenyl or a fluorenyl ring}	containing at least one cyclopentadienyl ring, condensed or not, e.g. an indenyl or a fluorenyl ring
C08F4/638	{with metals or metal-containing compounds, not provided for in a single group of groups C08F4/633 to C08F4/637 }	with metals or metal-containing compounds, not provided for in a single group of groups C08F4/633 to C08F4/637
C08J5/20	Manufacture of shaped of ion-exchange resins [Use of macromolecular compounds as anion B01J41/14 or cation B01J39/20 exchangers]	Manufacture of shaped of ion-exchange resins {Use of macromolecular compounds as anion B01J41/14 or cation B01J39/20 exchangers}
C08L1/04	{Oxycellulose; Hydrocellulose, e.g. microcrystalline cellulose}	Oxycellulose; Hydrocellulose {, e.g. microcrystalline cellulose}
C08L1/10	{Esters of organic acids, i.e. acylates}	Esters of organic acids {, i.e. acylates}
C08L1/18	{Cellulose nitrate, i.e. nitrocellulose}	Cellulose nitrate {, i.e. nitrocellulose}
C08L3/04	{Starch derivatives, e.g. crosslinked derivatives}	Starch derivatives {, e.g. crosslinked derivatives}
C08L5/12	{Agar or agar-agar, i.e. mixture of agarose and agaropectin; Derivatives thereof}	{Agar or} agar-agar {, i.e. mixture of agarose and agaropectin}; Derivatives thereof

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C08L89/06	{derived from leather or skin, e.g. gelatin}	derived from leather or skin {, e.g. gelatin}
C09B31/072	{containing acid groups, e.g. -CO2H, -SO3H, -PO3H2, -OSO3H, -OPO2H2; Salts thereof}	containing acid groups, e.g. -CO2H, -SO3H, -PO3H2, -OSO3H, -OPO2H2 ; Salts thereof
C10L1/192	{Macromolecular compounds}(C10L1/1814, C10L1/1817 take precedence)	Macromolecular compounds {(C10L1/1814, C10L1/1817 take precedence)}
C10L1/196	{derived from monomers containing a carbon-to-carbon unsaturated bond and a carboxyl group or salts, anhydrides or esters thereof homo- or copolymers of compounds having one or more unsaturated aliphatic radicals each having one carbon bond to carbon double bond, and at least one being terminated by a carboxyl radical or of salts, anhydrides or esters thereof}	derived from monomers containing a carbon-to-carbon unsaturated bond and a carboxyl group or salts, anhydrides or esters thereof {homo- or copolymers of compounds having one or more unsaturated aliphatic radicals each having one carbon bond to carbon double bond, and at least one being terminated by a carboxyl radical or of salts, anhydrides or esters thereof}
C12P17/185	{Heterocyclic compounds containing sulfur atoms as ring hetero atoms in the condensed system}{cepam nucleus C12P35/00; penam nucleus C12P37/00 }	{Heterocyclic compounds containing sulfur atoms as ring hetero atoms in the condensed system (cepam nucleus C12P35/00; penam nucleus C12P37/00)}
C13K13/00	{Sugars not otherwise provided for in this class}	Sugars not otherwise provided for in this class
C23C16/452	{by activating reactive gas streams before their introduction into the reaction chamber, e.g. by ionisation or addition of reactive species}	by activating reactive gas streams before {their} introduction into the reaction chamber, e.g. by {ionisation} or addition of reactive species
C23C18/30	{Activating or accelerating or sensitising with palladium or other noble metal}	Activating {or accelerating or sensitising with palladium or other noble metal}
D01H13/14	Warning or safety devices, e.g. automatic fault detectors, stop motions; {Monitoring the entanglement of slivers in drafting arrangements}; safety devices of general application F16P ; indicating devices of general application G08B	Warning or safety devices, e.g. automatic fault detectors, stop motions; {Monitoring the entanglement of slivers in drafting arrangements}; (safety devices of general application F16P; indicating devices of general application G08B)
E05B17/04	{Devices for coupling the turning cylinder of a single or a double cylinder lock with the bolt operating member}	Devices for coupling the turning cylinder of a single or a double cylinder lock with the bolt operating member

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E06C7/48	Ladder heads; Supports for heads of ladders for resting against objects {ladders attachable to structures such as poles E06C1/34 }	Ladder heads; Supports for heads of ladders for resting against objects {(ladders attachable to structures such as poles E06C1/34)}
F02D1/04	{by mechanical means dependent on engine speed, e.g. using centrifugal governors (F02D1/08 takes precedence)}	by mechanical means dependent on engine speed, e.g. using centrifugal governors (F02D1/08 takes precedence)
F02D1/18	{with non-mechanical means for transmitting control impulse; with amplification of control impulse}	with non-mechanical means for transmitting control impulse; with amplification of control impulse
F02M7/06	{Means for enriching charge on sudden air throttle opening, i.e. at acceleration, e.g. storage means in passage way system}	Means for enriching charge on sudden {air} throttle opening, i.e. at acceleration, e.g. storage means in passage way system
F04B1/14	{having stationary cylinders}	having stationary cylinders
F04D19/00	Axial-flow pumps (F04D21/00 takes precedence); {pump comprising axial flow and radial flow stages F04D17/025 }	Axial-flow pumps (F04D21/00 takes precedence); {pump comprising axial flow and radial flow stages F04D17/025)}
F16D3/202	{one coupling part having radially projecting pins, e.g. tripod joints}	one coupling part having radially projecting pins, e.g. tripod joints
F16F13/22	characterised by comprising also a dynamic damper; dampers using inertia effect per se F16F7/10	characterised by comprising also a dynamic damper (dampers using inertia effect per se F16F7/10)
F16L3/015	{using articulated- or supple-guiding elements (arrangements for cranes of means for transmitting pneumatic, hydraulic or electric power to movable parts or devices B66C13/12)}	using articulated- or supple-guiding elements (arrangements for cranes of means for transmitting pneumatic, hydraulic or electric power to movable parts or devices B66C13/12)
F16K31/122	{the fluid acting on a piston (F16K31/143, F16K31/163, F16K31/363, F16K31/383 take precedence)}	the fluid acting on a piston (F16K31/143, F16K31/163, F16K31/363, F16K31/383 take precedence)
F16K31/126	{the fluid acting on a diaphragm, bellows, or the like (F16K31/145, F16K31/165, F16K31/365, F16K31/385 take precedence)}	the fluid acting on a diaphragm, bellows, or the like (F16K31/145, F16K31/165, F16K31/365, F16K31/385 take precedence)
F41B5/1403	{Details of bows; camera's on bows F41B5/1492 }	{Details of bows; (camera's on bows F41B5/1492)}
F41B5/1419	{String mounted peep sights (sights mounted on the bow itself) F41G1/467 }	{String mounted peep sights (sights mounted on the bow itself F41G1/467)}

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F41C9/04	Walking-stick guns; {Sticks combined with weapons A45B3/14 }	Walking-stick guns {(Sticks combined with weapons A45B3/14)}
G01B3/10	{flexible, e.g. tape measures}	flexible {, e.g. tape measures}
G01C21/3638	{including 3D objects and buildings (three dimensional [3D]) modelling, e.g. data description of 3D objects G06T17/00; geographic models G06T17/05 }	{including 3D objects and buildings (three dimensional [3D] modelling, e.g. data description of 3D objects G06T17/00; geographic models G06T17/05)}
G01D4/08	Transfer of indication from a counter into a summing counter mechanical counters G06M	Transfer of indication from a counter into a summing counter {(mechanical counters G06M)}
G01F23/38	{using magnetically actuated indicating means}	using magnetically actuated indicating means
G01L19/14	{Housings (G01L19/0007, G01L19/0092, G01L19/04, G01L19/06 take precedence)}	Housings {(G01L19/0007, G01L19/0084, G01L19/0092, G01L19/04, G01L19/06 take precedence)}
G01M17/007	{of wheeled or endless-tracked vehicles (G01M17/08 takes precedence)}	of wheeled or endless-tracked vehicles (G01M17/08 takes precedence)
G01N1/16	with provision for intake at several levels { G01N1/2035 }(G01N1/12, G01N1/14 take precedence)	with provision for intake at several levels ({ G01N1/2035 } G01N1/12, G01N1/14 take precedence)
G01N1/20	for flowing or falling materials { G01N1/2035 }(G01N1/12, G01N1/14 take precedence)	for flowing or falling materials ({ G01N1/2035 } G01N1/12, G01N1/14 take precedence)
G01P15/09	{by piezo-electric pick-up}	by piezo-electric pick-up
G01R33/345	{of waveguide type (G01R33/343 takes precedence)}	of waveguide type (G01R33/343 takes precedence)
G01S7/521	{Constructional features (constructional features of transducers B06B; mounting transducers G10K11/00)}	Constructional features {(constructional features of transducers B06B; mounting transducers G10K11/00)}
G02B6/383	{Hermaphroditic connectors, i.e. two identical plugs mating with one another, each plug having both male and female diametrically opposed engaging parts; electric hermaphroditic coupling H01R24/84, H01R13/28 }	{Hermaphroditic connectors, i.e. two identical plugs mating with one another, each plug having both male and female diametrically opposed engaging parts; (electric hermaphroditic coupling H01R24/84, H01R13/28)}
G03B11/04	{Hoods or caps for eliminating unwanted light from lenses, viewfinders or focusing aids}	Hoods or caps for eliminating unwanted light from lenses, viewfinders or focusing aids

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G04B1/165	{Spring cylinder with friction transmission to the gearing (especially for Roskopf clockworks); friction clutch between spring and spring cylinder G04B1/185 }	{Spring cylinder with friction transmission to the gearing (especially for Roskopf clockworks); (friction clutch between spring and spring cylinder G04B1/185)}
G04F5/025	{Electronic metronomes}{rhytem generation for electrophonic musical instruments G10H1/36 }	{Electronic metronomes (rhytem generation for electrophonic musical instruments G10H1/36)}
G06F7/505	{in bit-parallel fashion, i.e. having a different digit-handling circuit for each denomination (half or full adders G06F7/501)}	in bit-parallel fashion, i.e. having a different digit-handling circuit for each denomination {(half or full adders G06F7/501)}
G06F11/18	{using passive fault-masking of the redundant circuits (error detection by comparing the output of redundant processing systems with continued operation after detection of the error G06F11/165)}	using passive fault-masking of the redundant circuits {(error detection by comparing the output of redundant processing systems with continued operation after detection of the error G06F11/165)}
G06F15/177	{Initialisation or configuration control (processor initialisation G06F9/4405)}	Initialisation or configuration control {(processor initialisation G06F9/4405)}
G06F21/10	{Protecting distributed programs or content, e.g. vending or licensing of copyrighted material}	Protecting distributed programs or content, e.g. vending or licensing of copyrighted material
G06F21/12	{Protecting executable software}	Protecting executable software
G06F21/14	{against software analysis or reverse engineering, e.g. by obfuscation}	against software analysis or reverse engineering, e.g. by obfuscation
G06F21/16	{Program or content traceability, e.g. by watermarking (digital watermarking on images H04N1/32)}	Program or content traceability, e.g. by watermarking (digital watermarking on images H04N1/32)
G06F21/30	{Authentication, i.e. establishing the identity or authorisation of security principals}	Authentication, i.e. establishing the identity or authorisation of security principals
G06F21/31	{User authentication}	User authentication
G06F21/32	{using biometric data, e.g. fingerprints, iris scans or voiceprints}	using biometric data, e.g. fingerprints, iris scans or voiceprints
G06F21/33	{using certificates}	using certificates
G06F21/34	{involving the use of external additional devices, e.g. dongles or smart cards}	involving the use of external additional devices, e.g. dongles or smart cards
G06F21/35	{communicating wirelessly}	communicating wirelessly
G06F21/36	{by graphic or iconic representation}	by graphic or iconic representation

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G06F21/40	{by quorum, i.e. whereby two or more security principals are required}	by quorum, i.e. whereby two or more security principals are required
G06F21/41	{where a single sign-on provides access to a plurality of computers}	where a single sign-on provides access to a plurality of computers
G06F21/42	{using separate channels for security data}	using separate channels for security data
G06F21/43	{wireless channels}	wireless channels
G06F21/44	{Program or device authentication}	Program or device authentication
G06F21/45	{Structures or tools for the administration of authentication}	Structures or tools for the administration of authentication
G06F21/46	{by designing passwords or checking the strength of passwords}	by designing passwords or checking the strength of passwords
G06F21/50	{Monitoring users, programs or devices to maintain the integrity of platforms, e.g. of processors, firmware or operating systems}	Monitoring users, programs or devices to maintain the integrity of platforms, e.g. of processors, firmware or operating systems
G06F21/51	{at application loading time, e.g. accepting, rejecting, starting or inhibiting executable software based on integrity or source reliability}	at application loading time, e.g. accepting, rejecting, starting or inhibiting executable software based on integrity or source reliability
G06F21/52	{during program execution, e.g. stack integrity; Preventing unwanted data erasure; Buffer overflow}	during program execution, e.g. stack integrity {; Preventing unwanted data erasure; Buffer overflow}
G06F21/53	{by executing in a restricted environment, e.g. sandbox or secure virtual machine}	by executing in a restricted environment, e.g. sandbox or secure virtual machine
G06F21/54	{by adding security routines or objects to programs}	by adding security routines or objects to programs
G06F21/55	{Detecting local intrusion or implementing counter-measures}	Detecting local intrusion or implementing counter-measures
G06F21/56	{Computer malware detection or handling, e.g. anti-virus arrangements}	Computer malware detection or handling, e.g. anti-virus arrangements
G06F21/57	{Certifying or maintaining trusted computer platforms, e.g. secure boots or power-downs, version controls, system software checks, secure updates or assessing vulnerabilities}	Certifying or maintaining trusted computer platforms, e.g. secure boots or power-downs, version controls, system software checks, secure updates or assessing vulnerabilities
G06F21/60	{Protecting data}	Protecting data
G06F21/62	{Protecting access to data via a platform, e.g. using keys or access control rules}	Protecting access to data via a platform, e.g. using keys or access control rules

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G06F21/64	{Protecting data integrity, e.g. using checksums, certificates or signatures}	Protecting data integrity, e.g. using checksums, certificates or signatures
G06F21/70	{Protecting specific internal or peripheral components, in which the protection of a component leads to protection of the entire computer}	Protecting specific internal or peripheral components, in which the protection of a component leads to protection of the entire computer
G06F21/71	{to assure secure computing or processing of information}	to assure secure computing or processing of information
G06F21/72	{in cryptographic circuits}	in cryptographic circuits
G06F21/73	{by creating or determining hardware identification, e.g. serial numbers}	by creating or determining hardware identification, e.g. serial numbers
G06F21/74	{operating in dual or compartmented mode, i.e. at least one secure mode}	operating in dual or compartmented mode, i.e. at least one secure mode
G06F21/75	{by inhibiting the analysis of circuitry or operation}	by inhibiting the analysis of circuitry or operation
G06F21/76	{in application-specific integrated circuits [ASICs] or field-programmable devices, e.g. field-programmable gate arrays [FPGAs] or programmable logic devices [PLDs]}	in application-specific integrated circuits [ASICs] or field-programmable devices, e.g. field-programmable gate arrays [FPGAs] or programmable logic devices [PLDs]
G06F21/77	{in smart cards}	in smart cards
G06F21/78	{to assure secure storage of data (address-based protection against unauthorised use of memory G06F12/14; record carriers for use with machines and with at least a part designed to carry digital markings G06K19/00)}	to assure secure storage of data (address-based protection against unauthorised use of memory G06F12/14; record carriers for use with machines and with at least a part designed to carry digital markings G06K19/00)
G06F21/79	{in semiconductor storage media, e.g. directly-addressable memories}	in semiconductor storage media, e.g. directly-addressable memories
G06F21/80	{in storage media based on magnetic or optical technology, e.g. disks with sectors (preventing unauthorised reproduction or copying of disk-type recordable media G11B20/00)}	in storage media based on magnetic or optical technology, e.g. disks with sectors (preventing unauthorised reproduction or copying of disk-type recordable media G11B20/00)
G06F21/81	{by operating on the power supply, e.g. enabling or disabling power-on, sleep or resume operations}	by operating on the power supply, e.g. enabling or disabling power-on, sleep or resume operations
G06F21/82	{Protecting input, output or interconnection devices}	Protecting input, output or interconnection devices

G06F21/83	{input devices, e.g. keyboards, mice or controllers thereof}	input devices, e.g. keyboards, mice or controllers thereof
G06F21/84	{output devices, e.g. displays or monitors}	output devices, e.g. displays or monitors
G06F21/85	{interconnection devices, e.g. bus-connected or in-line devices}	interconnection devices, e.g. bus-connected or in-line devices
G06F21/86	{Secure or tamper-resistant housings}	Secure or tamper-resistant housings
G06F21/87	{by means of encapsulation, e.g. for integrated circuits}	by means of encapsulation, e.g. for integrated circuits
G06F21/88	{Detecting or preventing theft or loss}	Detecting or preventing theft or loss
G08C19/36	using optical means to convert the input signal (analogue/digital converters per se H03M1/00); {optical analogue digital converters G02F7/00; contains no documents, see G01D5/26 }	using optical means to convert the input signal (analogue/digital converters per se H03M1/00; {optical analogue digital converters G02F7/00; contains no documents, see G01D5/26 })
G09G5/04	{using circuits for interfacing with colour displays}	using circuits for interfacing with colour displays
G11B3/085	{using automatic means}(G11B3/095 takes precedence; {if particularly adapted for record-changers see G11B17/16 and subgroups })	using automatic means (G11B3/095 takes precedence {; if particularly adapted for record-changers see G11B17/16 and subgroups })
G11B5/48	Disposition or mounting of heads {or head supports} relative to record carriers {mounting of head within housing G11B5/105; arrangements of heads, e.g. for scanning the record carrier to increase the relative speed (driving of both record carriers and head G11B15/18; guiding record carriers G11B15/60; head selecting circuits G11B15/12)}	Disposition or mounting of heads {or head supports} relative to record carriers {(mounting of head within housing G11B5/105); arrangements of heads, e.g. for scanning the record carrier to increase the relative speed (driving of both record carriers and head G11B15/18; guiding record carriers G11B15/60; head selecting circuits G11B15/12)}
G11B23/0007	{Circuits or methods for reducing noise, for correction of distortion, or for changing density of recorded information, volume compression or expansion circuits per se H03G7/00 }	{Circuits or methods for reducing noise, for correction of distortion, or for changing density of recorded information, (volume compression or expansion circuits per se H03G7/00)}
G11C13/02	using elements whose operation depends upon chemical change {(G11C13/0009 takes precedence)}; using electrochemical charge G11C11/00	using elements whose operation depends upon chemical change ({ G11C13/0009 takes precedence}; using electrochemical charge G11C11/00)

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G11C19/0883	{Means for switching magnetic domains from one path into another path, i.e. transfer switches, swap gates, decoders logic circuits using magnetic domains H03K19/168 }	{Means for switching magnetic domains from one path into another path, i.e. transfer switches, swap gates, decoders (logic circuits using magnetic domains H03K19/168)}
H01H51/32	Frequency relays; Mechanically-tuned relays {(switched devices for electric time devices G04C; electromechanical resonaters H03H9/00; telegraph circuits with oscillating relay H04L25/205); mechanical means for producing a desired natural frequency of operation of the contacts H01H50/74 }	Frequency relays; Mechanically-tuned relays {(switched devices for electric time devices G04C; electromechanical resonaters H03H9/00; telegraph circuits with oscillating relay H04L25/205; mechanical means for producing a desired natural frequency of operation of the contacts H01H50/74)}
H01L27/085	{including field-effect components only}	including field-effect components only
H01L41/09	{with electrical input and mechanical output e.g. actuators, vibrators}(in frequency selective networks H03H9/00)	with electrical input and mechanical output {e.g. actuators, vibrators (in frequency selective networks H03H9/00)}
H01L2224/13487	Ceramics, e.g. crystalline carbides, nitrides or oxides [glass ceramics H01L2224/13488]	Ceramics, e.g. crystalline carbides, nitrides or oxides (glass ceramics H01L2224/13488)
H01L2224/13887	Ceramics, e.g. crystalline carbides, nitrides or oxides [glass ceramics H01L2224/13888]	Ceramics, e.g. crystalline carbides, nitrides or oxides (glass ceramics H01L2224/13888)
H01L2224/29987	Ceramics, e.g. crystalline carbides, nitrides or oxides [glass ceramics H01L2224/29988]	Ceramics, e.g. crystalline carbides, nitrides or oxides (glass ceramics H01L2224/29988)
H01L2224/37287	Ceramics, e.g. crystalline carbides, nitrides or oxides [glass ceramics H01L2224/37288]	Ceramics, e.g. crystalline carbides, nitrides or oxides (glass ceramics H01L2224/37288)
H01L2224/37487	Ceramics, e.g. crystalline carbides, nitrides or oxides [glass ceramics H01L2224/37488]	Ceramics, e.g. crystalline carbides, nitrides or oxides (glass ceramics H01L2224/37488)
H01L2224/82237	using electron beam, electron beam in general B23K15/00	using electron beam, (electron beam in general B23K15/00)
H01L2224/84587	Ceramics, e.g. crystalline carbides, nitrides or oxides [glass ceramics H01L2224/84588]	Ceramics, e.g. crystalline carbides, nitrides or oxides (glass ceramics H01L2224/84588)
H01L2924/16174	Ceramics, e.g. crystalline carbides, nitrides or oxides [glass ceramics H01L2224/16175]	Ceramics, e.g. crystalline carbides, nitrides or oxides (glass ceramics H01L2224/16175)

H01S5/022	{Mountings; Housings (packaging and electrical lead-through per se H01L23/00)}	Mountings; Housings {(packaging and electrical lead-through per se H01L23/00)}
H01S5/0683	{by monitoring the optical output parameters}	by monitoring the optical output parameters
H04B7/2668	{Arrangements for Wireless Code-Division Multiple Access [CDMA] System Synchronisation, for code acquisition H04B1/7075, for code tracking H04B1/7085 }	{Arrangements for Wireless Code-Division Multiple Access [CDMA] System Synchronisation, (for code acquisition H04B1/7075, for code tracking H04B1/7085)}
H04J3/1658	{carrying packets or ATM cells; H04J3/1664 takes precedence for payloads with different packet types}	{carrying packets or ATM cells; (H04J3/1664 takes precedence for payloads with different packet types)}
H04L25/0264	{Arrangements for coupling to transmission lines (duplexing arrangements H04L5/14) ; line equalisers, line build-out devices H04L25/03878 }	{Arrangements for coupling to transmission lines (duplexing arrangements H04L5/14 ; line equalisers, line build-out devices H04L25/03878)}
H04M7/14	{in systems involving main and subordinate switching centres}	in systems involving main and subordinate switching centres
H04M11/068	{using time division multiplex techniques; integrated services digital networks H04Q11/0428 }	{using time division multiplex techniques; (integrated services digital networks H04Q11/0428)}
H04N9/045	{using solid-state devices (H04N9/11 takes precedence) ; solid state picture signal generators H01L31/00 }	{using solid-state devices (H04N9/11 takes precedence ; solid state picture signal generators H01L31/00)}
H04N21/20	{Servers specifically adapted for the distribution of content, e.g. VOD servers; Operations thereof}	Servers specifically adapted for the distribution of content, e.g. VOD servers; Operations thereof
H04N21/21	{Server components or server architectures}	Server components or server architectures
H04N21/214	{Specialised server platform, e.g. server located in an airplane, hotel, hospital (arrangements specially adapted for local area broadcast systems H04H20/61)}	Specialised server platform, e.g. server located in an airplane, hotel, hospital {(arrangements specially adapted for local area broadcast systems H04H20/61)}
H04N21/222	{Secondary servers, e.g. proxy server, cable television head-end (intermediate processing or storage in data networks H04L29/08702)}	Secondary servers, e.g. proxy server, cable television head-end {(intermediate processing or storage in data networks H04L29/08702)}
H04N21/2225	{local VOD servers}	local VOD servers

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H04N21/23	{Processing of content or additional data; Elementary server operations; Server middleware}	Processing of content or additional data; Elementary server operations; Server middleware
H04N21/231	{Content storage operation, e.g. caching movies for short term storage, replicating data over plural servers, prioritizing data for deletion}	Content storage operation, e.g. caching movies for short term storage, replicating data over plural servers, prioritizing data for deletion
H04N21/2312	{Data placement on disk arrays (data placement in general G06F3/0604)}	Data placement on disk arrays {(data placement in general G06F3/0604)}
H04N21/2315	{using interleaving}	using interleaving
H04N21/2318	{using striping}	using striping
H04N21/233	{Processing of audio elementary streams (details of formatting and decoding of an encoded audio signal representation into a data stream for transmission or storage purposes G10L19/167; arrangements characterised by components specially adapted for monitoring, identification or recognition of audio in broadcast systems H04H60/58)}	Processing of audio elementary streams {(details of formatting and decoding of an encoded audio signal representation into a data stream for transmission or storage purposes G10L19/167; arrangements characterised by components specially adapted for monitoring, identification or recognition of audio in broadcast systems H04H60/58)}
H04N21/234	{Processing of video elementary streams, e.g. splicing of content streams, manipulating MPEG-4 scene graphs (video encoding or transcoding processes per se H04N19/00)}	Processing of video elementary streams, e.g. splicing of {content} streams, manipulating MPEG-4 scene graphs {(video encoding or transcoding processes per se H04N19/00)}
H04N21/2343	{involving reformatting operations of video signals for distribution or compliance with end-user requests or end-user device requirements (media manipulation, adaptation or conversion at the source in one way streaming for real-time multimedia communications H04L29/06489; video transcoding H04N19/40)}	involving reformatting operations of video signals for distribution or compliance with end-user requests or end-user device requirements {(media manipulation, adaptation or conversion at the source in one way streaming for real-time multimedia communications H04L29/06489; video transcoding H04N19/40)}

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H04N21/2347	{involving video stream encryption (arrangements for secret or secure communication H04L9/00, analogue secrecy systems H04N7/16; Arrangements using cryptography for the use of broadcast information or broadcast-related information H04H60/23; arrangements for preventing the taking of data from a data transmission channel without authorisation H04L12/22; security arrangements in wireless networks H04W12/00)}	involving video stream encryption (arrangements for secret or secure communication H04L9/00, analogue secrecy systems H04N7/16 {; Arrangements using cryptography for the use of broadcast information or broadcast-related information H04H60/23; arrangements for preventing the taking of data from a data transmission channel without authorisation H04L12/22; security arrangements in wireless networks H04W12/00 })
H04N21/235	{Processing of additional data, e.g. scrambling of additional data, processing content descriptors (arrangements for simultaneous broadcast of plural pieces of information H04H20/28)}	Processing of additional data, e.g. scrambling of additional data, processing content descriptors {(arrangements for simultaneous broadcast of plural pieces of information H04H20/28)}
H04N21/2362	{Generation or processing of Service Information [SI]}	Generation or processing of Service Information [SI]
H04N21/2365	{Multiplexing of several video streams}	Multiplexing of several video streams
H04N21/2368	{Multiplexing of audio and video streams}	Multiplexing of audio and video streams
H04N21/237	{Communication with additional data server}	Communication with additional data server
H04N21/238	{Interfacing the downstream path of the transmission network, e.g. adapting the transmission rate of a video stream to network bandwidth; Processing of multiplex streams (hybrid Fiber Coaxial HFC networks for downstream channel allocation for video distribution H04L12/2801; flow control in packet networks H04L12/569; formation of RTP packets H04L29/06176; application layer Quality of Service and content dependent routing H04L29/08945)}	Interfacing the downstream path of the transmission network, e.g. adapting the transmission rate of a video stream to network bandwidth; Processing of multiplex streams {(hybrid Fiber Coaxial HFC networks for downstream channel allocation for video distribution H04L12/2801; flow control in packet networks H04L12/569; formation of RTP packets H04L29/06176; application layer Quality of Service and content dependent routing H04L29/08945)}
H04N21/2381	{Adapting the multiplex stream to a specific network, e.g. an Internet Protocol [IP] network (transmission of MPEG streams over ATM H04L12/5601)}	Adapting the multiplex stream to a specific network, e.g. an Internet Protocol [IP] network {(transmission of MPEG streams over ATM H04L12/5601)}

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H04N21/2385	{Channel allocation (H04N21/266 takes precedence); Bandwidth allocation (H04N21/24 takes precedence; allocation of channels according to the instantaneous demands of the users in time-division multiplex systems H04J3/1682; arrangements for maintenance or administration in data switching networks involving bandwidth and capacity management H04L12/2439; Admission control, resource allocation in open networks H04L12/5692; negotiating bandwidth in wireless networks H04W28/16)}	Channel allocation (H04N21/266 takes precedence); Bandwidth allocation (H04N21/24 takes precedence {; allocation of channels according to the instantaneous demands of the users in time-division multiplex systems H04J3/1682; arrangements for maintenance or administration in data switching networks involving bandwidth and capacity management H04L12/2439; Admission control, resource allocation in open networks H04L12/5692; negotiating bandwidth in wireless networks H04W28/16 })
H04N21/2387	{Stream processing in response to a playback request from an end-user, e.g. for trick-play}	Stream processing in response to a playback request from an end-user, e.g. for trick-play
H04N21/2389	{Multiplex stream processing, e.g. multiplex stream encrypting}	Multiplex stream processing, e.g. multiplex stream encrypting
H04N21/24	{Monitoring of processes or resources, e.g. monitoring of server load, available bandwidth, upstream requests (monitoring of server performance or load G06F11/34; arrangements for observation, testing or troubleshooting for broadcast or for distribution combined with broadcast H04H20/12)}	Monitoring of processes or resources, e.g. monitoring of server load, available bandwidth, upstream requests {(monitoring of server performance or load G06F11/34; arrangements for observation, testing or troubleshooting for broadcast or for distribution combined with broadcast H04H20/12)}
H04N21/241	{Operating System [OS] processes, e.g. server setup (arrangements for programme control G06F9/00; program loading or initiating in general G06F9/445; multiprogramming arrangements G06F9/46)}	Operating System [OS] processes, e.g. server setup (arrangements for programme control G06F9/00 {; program loading or initiating in general G06F9/445; multiprogramming arrangements G06F9/46 })

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H04N21/242	{Synchronization processes, e.g. processing of Program Clock References [PCR] (synchronisation arrangements in time-division multiplex systems H04J3/06; arrangements for synchronising broadcast or distribution via plural systems in broadcast distribution systems H04H20/18; arrangements for synchronising receiver with transmitter H04L7/00; synchronising circuits with arrangements for extending range of synchronisation at the transmitter end H04N5/067)}	Synchronization processes, e.g. processing of Program Clock References [PCR] {(synchronisation arrangements in time-division multiplex systems H04J3/06; arrangements for synchronising broadcast or distribution via plural systems in broadcast distribution systems H04H20/18; arrangements for synchronising receiver with transmitter H04L7/00; synchronising circuits with arrangements for extending range of synchronisation at the transmitter end H04N5/067)}
H04N21/25	{Management operations performed by the server for facilitating the content distribution or administrating data related to end-users or client devices, e.g. end-user or client device authentication, learning user preferences for recommending movies (maintenance or administration in data networks H04L12/24)}	Management operations performed by the server for facilitating the content distribution or administrating data related to end-users or client devices, e.g. end-user or client device authentication, learning user preferences for recommending movies {(maintenance or administration in data networks H04L12/24)}
H04N21/254	{Management at additional data server, e.g. shopping server, rights management server (arrangements for maintenance or administration in data networks H04L12/24; Protocols involving third party service providers for network applications in communication control or processing H04L29/08666)}	Management at additional data server, e.g. shopping server, rights management server {(arrangements for maintenance or administration in data networks H04L12/24; Protocols involving third party service providers for network applications in communication control or processing H04L29/08666)}
H04N21/2547	{Third Party Billing, e.g. billing of advertiser}	Third Party Billing, e.g. billing of advertiser

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H04N21/258	{Client or end-user data management, e.g. managing client capabilities, user preferences or demographics, processing of multiple end-users preferences to derive collaborative data (arrangements for services using the result on the distributing side of broadcast systems H04H60/66; data switching network applications involving user or terminal profiles H04L29/08918)}	Client or end-user data management, e.g. managing client capabilities, user preferences or demographics, processing of multiple end-users preferences to derive collaborative data {(arrangements for services using the result on the distributing side of broadcast systems H04H60/66; data switching network applications involving user or terminal profiles H04L29/08918)}
H04N21/262	{Content or additional data distribution scheduling, e.g. sending additional data at off-peak times, updating software modules, calculating the carousel transmission frequency, delaying a video stream transmission, generating play-lists (scheduling strategies for dispatcher in multiprogramming arrangements G06F9/4881; arrangements for scheduling broadcast services or broadcast-related services H04H60/06; flow control in packet networks H04L12/569; protocols for scheduling and organising the servicing of requests, whereby a time schedule is established for servicing the requests in network applications in communication control or processing H04L29/08963)}	Content or additional data distribution scheduling, e.g. sending additional data at off-peak times, updating software modules, calculating the carousel transmission frequency, delaying a video stream transmission, generating play-lists {(scheduling strategies for dispatcher in multiprogramming arrangements G06F9/4881; arrangements for scheduling broadcast services or broadcast-related services H04H60/06; flow control in packet networks H04L12/569; protocols for scheduling and organising the servicing of requests, whereby a time schedule is established for servicing the requests in network applications in communication control or processing H04L29/08963)}
H04N21/266	{Channel or content management, e.g. generation and management of keys and entitlement messages in a conditional access system, merging a VOD unicast channel into a multicast channel}	Channel or content management, e.g. generation and management of keys and entitlement messages in a conditional access system, merging a VOD unicast channel into a multicast channel
H04N21/2662	{Controlling the complexity of the video stream, e.g. by scaling the resolution or bitrate of the video stream based on the client capabilities}	Controlling the complexity of the video stream, e.g. by scaling the resolution or bitrate of the video stream based on the client capabilities

H04N21/2665	{Gathering content from different sources, e.g. Internet and satellite}	Gathering content from different sources, e.g. Internet and satellite
H04N21/2668	{Creating a channel for a dedicated end-user group, e.g. insertion of targeted commercials based on end-user profiles (information retrieval from the Internet by querying with filtering and personalisation G06F17/30867; arrangements for replacing or switching information during the broadcast H04H20/10; push services over packet-switching network H04L12/1859; adaptation of message content in packet-switching networks H04L12/583)}	Creating a channel for a dedicated end-user group, e.g. insertion of targeted commercials based on end-user profiles {(information retrieval from the Internet by querying with filtering and personalisation G06F17/30867; arrangements for replacing or switching information during the broadcast H04H20/10; push services over packet-switching network H04L12/1859; adaptation of message content in packet-switching networks H04L12/583)}
H04N21/27	{Server based end-user applications}	Server based end-user applications
H04N21/2743	{Video hosting of uploaded data from client}	Video hosting of uploaded data from client
H04N21/2747	{Remote storage of video programs received via the downstream path, e.g. from the server}	Remote storage of video programs received via the downstream path, e.g. from the server
H04N21/278	{Content descriptor database or directory service for end-user access (details of content or meta data based information retrieval of video data in video databases G06F17/30843)}	Content descriptor database or directory service for end-user access {(details of content or meta data based information retrieval of video data in video databases G06F17/30843)}
H04N21/41	{Structure of client; Structure of client peripherals}	Structure of client; Structure of client peripherals
H04N21/414	{Specialised client platforms, e.g. receiver in car or embedded in a mobile appliance}	Specialised client platforms, e.g. receiver in car or embedded in a mobile appliance
H04N21/4143	{embedded in a Personal Computer [PC]}	{embedded in a} Personal Computer [PC]
H04N21/4147	{Personal Video Recorder [PVR] (H04N5/76 takes precedence; arrangements for broadcast specially adapted for accumulation-type receivers H04H20/40)}	Personal Video Recorder [PVR] (H04N5/76 takes precedence {; arrangements for broadcast specially adapted for accumulation-type receivers H04H20/40 })}
H04N21/418	{External card to be used in combination with the client device, e.g. for conditional access}	External card to be used in combination with the client device, e.g. for conditional access

H04N21/4185	{for payment (mechanisms actuated by coded identity card or credit card to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus G07F7/08; payment schemes, architectures or protocols G06Q20/00; e-commerce G06Q30/00; charging arrangements in data networks H04L12/14)}	for payment {(mechanisms actuated by coded identity card or credit card to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus G07F7/08; payment schemes, architectures or protocols G06Q20/00; e-commerce G06Q30/00; charging arrangements in data networks H04L12/14)}
H04N21/4223	{Cameras (H04N5/225 takes precedence)}	Cameras (H04N5/225 takes precedence)
H04N21/43	{Processing of content or additional data, e.g. demultiplexing additional data from a digital video stream; Elementary client operations, e.g. monitoring of home network, synchronizing decoder's clock; Client middleware (demultiplexing of data packets for data networks, e.g. RTP/UDP H04L29/06176)}	Processing of content or additional data, e.g. demultiplexing additional data from a digital video stream; Elementary client operations, e.g. monitoring of home network, synchronizing decoder's clock; Client middleware {(demultiplexing of data packets for data networks, e.g. RTP/UDP H04L29/06176)}
H04N21/432	{Content retrieval operation from a local storage medium, e.g. hard-disk (details of retrieval of video data and associated meta data in video databases G06F17/30843)}	Content retrieval operation from a local storage medium, e.g. hard-disk {(details of retrieval of video data and associated meta data in video databases G06F17/30843)}
H04N21/433	{Content storage operation, e.g. storage operation in response to a pause request, caching operations}	Content storage operation, e.g. storage operation in response to a pause request, caching operations
H04N21/4335	{Housekeeping operations, e.g. prioritizing content for deletion because of storage space restrictions (storage management, e.g. defragmentation G06F3/0604; unloading stored programs G06F9/445; storage management in file systems G06F17/30067; buffering arrangements in a network node or in an end terminal in packet networks H04L49/90)}	Housekeeping operations, e.g. prioritizing content for deletion because of storage space restrictions {(storage management, e.g. defragmentation G06F3/0604; unloading stored programs G06F9/445; storage management in file systems G06F17/30067; buffering arrangements in a network node or in an end terminal in packet networks H04L49/90)}
H04N21/435	{Processing of additional data, e.g. decrypting of additional data, reconstructing software from modules extracted from the transport stream}	Processing of additional data, e.g. decrypting of additional data, reconstructing software from modules extracted from the transport stream

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H04N21/4367	{Establishing a secure communication between the client and a peripheral device or smart card (arrangements for secret or secure communication H04L9/00; security arrangements for protecting computers or computer systems against unauthorised activity G06F21/00; security arrangements in wireless networks H04W12/00)}	Establishing a secure communication between the client and a peripheral device or smart card (arrangements for secret or secure communication H04L9/00; security arrangements for protecting computers or computer systems against unauthorised activity G06F21/00 {; security arrangements in wireless networks H04W12/00 })
H04N21/437	{Interfacing the upstream path of the transmission network, e.g. for transmitting client requests to a VOD server (flow control in data networks H04L12/569; formation of RTP packets H04L29/06176; application layer Quality of Service and content dependent routing of client requests H04L29/08945)}	Interfacing the upstream path of the transmission network, e.g. for transmitting client requests to a VOD server {(flow control in data networks H04L12/569; formation of RTP packets H04L29/06176; application layer Quality of Service and content dependent routing of client requests H04L29/08945)}
H04N21/438	{Interfacing the downstream path of the transmission network originating from a server, e.g. retrieving MPEG packets from an IP network (transmission of MPEG streams over ATM H04L12/5601; flow control in data networks H04L12/569; processing of real-time packets H04L29/06176)}	Interfacing the downstream path of the transmission network originating from a server, e.g. retrieving MPEG packets from an IP network {(transmission of MPEG streams over ATM H04L12/5601; flow control in data networks H04L12/569; processing of real-time packets H04L29/06176)}
H04N21/4385	{Multiplex stream processing, e.g. multiplex stream decrypting}	Multiplex stream processing, e.g. multiplex stream decrypting
H04N21/439	{Processing of audio elementary streams}	Processing of audio elementary streams
H04N21/44	{Processing of video elementary streams, e.g. splicing a video clip retrieved from local storage with an incoming video stream, rendering scenes according to MPEG-4 scene graphs}	Processing of video elementary streams, e.g. splicing a video clip retrieved from local storage with an incoming video stream, rendering scenes according to MPEG-4 scene graphs

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H04N21/4402	{involving reformatting operations of video signals for household redistribution, storage or real-time display (adapting incoming signals to the display format of the display terminal G09G5/005; media manipulation, adaptation or conversion at the destination in one way streaming for real-time multimedia communications H04L29/06496; details of conversion of video standards at pixel level H04N7/01; video transcoding H04N19/40)}	involving reformatting operations of video signals for household redistribution, storage or real-time display {(adapting incoming signals to the display format of the display terminal G09G5/005; media manipulation, adaptation or conversion at the destination in one way streaming for real-time multimedia communications H04L29/06496; details of conversion of video standards at pixel level H04N7/01; video transcoding H04N19/40)}
H04N21/4405	{involving video stream decryption (arrangements for secret or secure communication H04L9/00; arrangements using cryptography for the use of broadcast information or broadcast-related information H04H60/23)}	involving video stream decryption (arrangements for secret or secure communication H04L9/00 {; arrangements using cryptography for the use of broadcast information or broadcast-related information H04H60/23 })
H04N21/4408	{involving video stream encryption, e.g. re-encrypting a decrypted video stream for redistribution in a home network (arrangements for secret or secure communication H04L9/00; arrangements using cryptography for the use of broadcast information or broadcast-related information H04H60/23)}	involving video stream encryption, e.g. re-encrypting a decrypted video stream for redistribution in a home network (arrangements for secret or secure communication H04L9/00 {; arrangements using cryptography for the use of broadcast information or broadcast-related information H04H60/23 })
H04N21/4415	{using biometric characteristics of the user, e.g. by voice recognition or fingerprint scanning (methods or arrangements for recognising patterns G06K9/00; restricting access to computer systems by authenticating users using biometric data G06F21/32; authentication mechanisms using biometrical features for network security H04L29/06809; authentication in wireless network security H04W12/06)}	using biometric characteristics of the user, e.g. by voice recognition or fingerprint scanning {(methods or arrangements for recognising patterns G06K9/00; restricting access to computer systems by authenticating users using biometric data G06F21/32; authentication mechanisms using biometrical features for network security H04L29/06809; authentication in wireless network security H04W12/06)}

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H04N21/442	{Monitoring of processes or resources, e.g. detecting the failure of a recording device, monitoring the downstream bandwidth, the number of times a movie has been viewed, the storage space available from the internal hard disk (arrangements for monitoring broadcast services or broadcast-related services H04H60/29; arrangements for identifying or recognising characteristics with a direct linkage to broadcast information H04H60/35; monitoring of user activities for profile generation for accessing a video database G06F17/30843; monitoring in wireless networks H04W24/00)}	Monitoring of processes or resources, e.g. detecting the failure of a recording device, monitoring the downstream bandwidth, the number of times a movie has been viewed, the storage space available from the internal hard disk {(arrangements for monitoring broadcast services or broadcast-related services H04H60/29; arrangements for identifying or recognising characteristics with a direct linkage to broadcast information H04H60/35; monitoring of user activities for profile generation for accessing a video database G06F17/30843; monitoring in wireless networks H04W24/00)}
H04N21/4425	{Monitoring of client processing errors or hardware failure (monitoring in electrical digital data processing G06F11/00; error detection in general G06F11/07; monitoring in general G06F11/30)}	Monitoring of client processing errors or hardware failure (monitoring in electrical digital data processing G06F11/00 {; error detection in general G06F11/07; monitoring in general G06F11/30 })
H04N21/443	{OS processes, e.g. booting a STB, implementing a Java virtual machine in a STB, power management in a STB (arrangements for program loading or initiating G06F9/445; boot device selection; loading of operating system G06F9/4406; program loading or initiating in general using non-volatile memory from which the program can be directly executed G06F9/44568)}	OS processes, e.g. booting a STB, implementing a Java virtual machine in a STB, power management in a STB (arrangements for program loading or initiating G06F9/445 {; boot device selection; loading of operating system G06F9/4406; program loading or initiating in general using non-volatile memory from which the program can be directly executed G06F9/44568 })
H04N21/45	{Management operations performed by the client for facilitating the reception of or the interaction with the content or administrating data related to the end-user or to the client device itself, e.g. learning user preferences for recommending movies, resolving scheduling conflicts}	Management operations performed by the client for facilitating the reception of or the interaction with the content or administrating data related to the end-user or to the client device itself, e.g. learning user preferences for recommending movies, resolving scheduling conflicts

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H04N21/454	{Content or additional data filtering, e.g. blocking advertisements (filtering and selective blocking of messages over packet-switching networks H04L12/585)}	Content or additional data filtering, e.g. blocking advertisements {(filtering and selective blocking of messages over packet-switching networks H04L12/585)}
H04N21/462	{Content or additional data management e.g. creating a master electronic program guide from data received from the Internet and a Head-end, controlling the complexity of a video stream by scaling the resolution or bit-rate based on the client capabilities}	Content or additional data management e.g. creating a master electronic program guide from data received from the Internet and a Head-end, controlling the complexity of a video stream by scaling the resolution or bit-rate based on the client capabilities
H04N21/4623	{Processing of entitlement messages, e.g. Entitlement Control Message [ECM], Entitlement Management Message [EMM] (arrangements for conditional access to broadcast information or to broadcast-related services H04H60/14)}	Processing of entitlement messages, e.g. Entitlement Control Message [ECM], Entitlement Management Message [EMM] {(arrangements for conditional access to broadcast information or to broadcast-related services H04H60/14)}
H04N21/466	{Learning process for intelligent management, e.g. learning user preferences for recommending movies (monitoring of user activities for profile generation for accessing a video database G06F17/30843; computer systems using learning methods G06N3/08; services using the results of monitoring in broadcast systems H04H60/61)}	Learning process for intelligent management, e.g. learning user preferences for recommending movies {(monitoring of user activities for profile generation for accessing a video database G06F17/30843; computer systems using learning methods G06N3/08; services using the results of monitoring in broadcast systems H04H60/61)}
H04N21/47	{End-user applications (interaction techniques for graphical user interfaces G06F3/048; receiver circuitry for displaying additional information H04N5/445; software engineering for user interfaces G06F8/20; services or applications for real-time multimedia communications H04L29/06387)}	End-user applications (interaction techniques for graphical user interfaces G06F3/048; receiver circuitry for displaying additional information H04N5/445 {; software engineering for user interfaces G06F8/20; services or applications for real-time multimedia communications H04L29/06387 })

H04N21/472	{End-user interface for requesting content, additional data or services; End-user interface for interacting with content, e.g. for content reservation or setting reminders, for requesting event notification, for manipulating displayed content (end-user interfaces for retrieving video data from a database G06F17/30843; content on demand in one way streaming for real-time multimedia communications H04L29/06462)}	End-user interface for requesting content, additional data or services; End-user interface for interacting with content, e.g. for content reservation or setting reminders, for requesting event notification, for manipulating displayed content {(end-user interfaces for retrieving video data from a database G06F17/30843; content on demand in one way streaming for real-time multimedia communications H04L29/06462)}
H04N21/4722	{for requesting additional data associated with the content}	for requesting additional data associated with the content
H04N21/4725	{using interactive regions of the image, e.g. hot spots (details of information retrieval from the Internet by using URLs G06F17/30876; processing chained hypermedia data for information retrieval G06F17/30014)}	using interactive regions of the image, e.g. hot spots {(details of information retrieval from the Internet by using URLs G06F17/30876; processing chained hypermedia data for information retrieval G06F17/30014)}
H04N21/4728	{for selecting a Region Of Interest [ROI], e.g. for requesting a higher resolution version of a selected region}	for selecting a Region Of Interest [ROI], e.g. for requesting a higher resolution version of a selected region
H04N21/475	{End-user interface for inputting end-user data, e.g. personal identification number [PIN], preference data}	End-user interface for inputting end-user data, e.g. personal identification number [PIN], preference data
H04N21/478	{Supplemental services, e.g. displaying phone caller identification, shopping application}	Supplemental services, e.g. displaying phone caller identification, shopping application
H04N21/4784	{receiving rewards (payment schemes, architectures or protocols G06Q20/00; e-commerce G06Q30/00; charging arrangements in data networks H04L12/14)}	receiving rewards {(payment schemes, architectures or protocols G06Q20/00; e-commerce G06Q30/00; charging arrangements in data networks H04L12/14)}
H04N21/4786	{e-mailing (message switching systems, e.g. electronic mail systems H04L12/58)}	e-mailing {(message switching systems, e.g. electronic mail systems H04L12/58)}

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H04N21/4788	{communicating with other users, e.g. chatting (arrangements for providing for computer conferences, e.g. chat rooms, to substation in data switching networks H04L12/1813; protocols for peer-to-peer networking in communication control or processing H04L29/08306)}	communicating with other users, e.g. chatting {(arrangements for providing for computer conferences, e.g. chat rooms, to substation in data switching networks H04L12/1813; protocols for peer-to-peer networking in communication control or processing H04L29/08306)}
H04N21/482	{End-user interface for program selection (systems specially adapted for using EPGs in broadcast systems H04H60/72)}	End-user interface for program selection {(systems specially adapted for using EPGs in broadcast systems H04H60/72)}
H04N21/485	{End-user interface for client configuration}	End-user interface for client configuration
H04N21/488	{Data services, e.g. news ticker (systems specially adapted for using meteorological information in broadcast systems H04H60/71)}	Data services, e.g. news ticker {(systems specially adapted for using meteorological information in broadcast systems H04H60/71)}
H04N21/61	{Network physical structure; Signal processing (H04B takes precedence)}	Network physical structure; Signal processing (H04B takes precedence)
H04N21/633	{Control signals issued by server directed to the network components or client (management of faults, events, alarms in data networks H04L12/2419)}	Control signals issued by server directed to the network components or client {(management of faults, events, alarms in data networks H04L12/2419)}
H04N21/6332	{directed to client}	directed to client
H04N21/6334	{for authorization, e.g. by transmitting a key (arrangements for secret or secure communication H04L9/00; wireless communications network key management H04W12/04; wireless communications network access security H04W12/08)}	for authorization, e.g. by transmitting a key (arrangements for secret or secure communication H04L9/00 {; wireless communications network key management H04W12/04; wireless communications network access security H04W12/08 })
H04N21/6336	{directed to decoder}	directed to decoder
H04N21/6338	{directed to network}	directed to network
H04N21/637	{Control signals issued by the client directed to the server or network components}	Control signals issued by the client directed to the server or network components
H04N21/6371	{directed to network}	directed to network

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H04N21/6377	{directed to server (control of source by destination in one way streaming for real-time multimedia communications H04L29/06469)}	directed to server {(control of source by destination in one way streaming for real-time multimedia communications H04L29/06469)}
H04N21/64	{Addressing (multicast or broadcast in one way streaming for real-time multimedia communications H04L29/06455; arrangements for addressing and naming in data networks H04L29/12009)}	Addressing {(multicast or broadcast in one way streaming for real-time multimedia communications H04L29/06455; arrangements for addressing and naming in data networks H04L29/12009)}
H04N21/6402	{Address allocation for clients (address allocation in data networks H04L29/12207)}	Address allocation for clients {(address allocation in data networks H04L29/12207)}
H04N21/6405	{Multicasting (data broadcast and multicast in packet switching networks H04L12/18)}	Multicasting {(data broadcast and multicast in packet switching networks H04L12/18)}
H04N21/6408	{Unicasting}	Unicasting
H04N21/6433	{Digital Storage Media - Command and Control Protocol [DSM-CC]}	Digital Storage Media - Command and Control Protocol [DSM-CC]
H04N21/6437	{Real-time Transport Protocol [RTP]}	Real-time Transport Protocol [RTP]
H04N21/647	{Control signaling between network components and server or clients; Network processes for video distribution between server and clients, e.g. controlling the quality of the video stream, by dropping packets, protecting content from unauthorized alteration within the network, monitoring of network load, bridging between two different networks, e.g. between IP and wireless (signalling, control or architecture for real-time multimedia communications H04L29/06183)}	Control signaling between network components and server or clients; Network processes for video distribution between server and clients, e.g. controlling the quality of the video stream, by dropping packets, protecting content from unauthorized alteration within the network, monitoring of network load, bridging between two different networks, e.g. between IP and wireless {(signalling, control or architecture for real-time multimedia communications H04L29/06183)}
H04N21/65	{transmission of management data between client and server}	transmission of management data between client and server
H04N21/654	{transmission by server directed to the client}	transmission by server directed to the client
H04N21/6543	{for forcing some client operations, e.g. recording (remote booting in general G06F9/4416)}	for forcing some client operations, e.g. recording {(remote booting in general G06F9/4416)}
H04N21/6547	{comprising parameters, e.g. for client setup}	comprising parameters, e.g. for client setup
H04N21/658	{transmission by the client directed to the server}	transmission by the client directed to the server

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H04N21/6583	{Acknowledgement}	Acknowledgement
H04N21/6587	{Control parameters, e.g. trick play commands, viewpoint selection}	Control parameters, e.g. trick play commands, viewpoint selection
H04N21/80	{Generation or processing of content or additional data by content creator independently of the distribution process; Content per se (arrangements for generating broadcast information H04H60/02)}	Generation or processing of content or additional data by content creator independently of the distribution process; Content per se {(arrangements for generating broadcast information H04H60/02)}
H04N21/81	{Monomedia components thereof}	Monomedia components thereof
H04N21/83	{Generation or processing of protective or descriptive data associated with content; Content structuring}	Generation or processing of protective or descriptive data associated with content; Content structuring
H04N21/835	{Generation of protective data, e.g. certificates (protecting software against unauthorised usage in a vending or licensing environment G06F21/10)}	Generation of protective data, e.g. certificates {(protecting software against unauthorised usage in a vending or licensing environment G06F21/10)}
H04N21/8352	{involving content or source identification data, e.g. Unique Material Identifier [UMID]}	involving content or source identification data, e.g. Unique Material Identifier [UMID]
H04N21/8355	{involving usage data, e.g. number of copies or viewings allowed}	involving usage data, e.g. number of copies or viewings allowed
H04N21/84	{Generation or processing of descriptive data, e.g. content descriptors (systems specially adapted for using meta-information in broadcast systems H04H60/73)}	Generation or processing of descriptive data, e.g. content descriptors {(systems specially adapted for using meta-information in broadcast systems H04H60/73)}
H04N21/8405	{represented by keywords}	represented by keywords
H04N21/845	{Structuring of content, e.g. decomposing content into time segments}	Structuring of content, e.g. decomposing content into time segments
H04N21/85	{Assembly of content; Generation of multimedia applications}	Assembly of content; Generation of multimedia applications
H04N21/854	{Content Authoring}	Content Authoring
H04N21/8541	{involving branching, e.g. to different story endings}	involving branching, e.g. to different story endings

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H04N21/8543	{using a description language, e.g. Multimedia and Hypermedia information coding Expert Group [MHEG], eXtensible Markup Language [XML] (information retrieval of semistructured data, the underlying structure being taken into account, e.g. mark-up language structure data G06F17/30908)}	using a description language, e.g. Multimedia and Hypermedia information coding Expert Group [MHEG], eXtensible Markup Language [XML] {(information retrieval of semistructured data, the underlying structure being taken into account, e.g. mark-up language structure data G06F17/30908)}
H04N21/8545	{for generating interactive applications}	for generating interactive applications
H04N21/8547	{involving timestamps for synchronizing content}	involving timestamps for synchronizing content
H04N21/8549	{Creating video summaries, e.g. movie trailer (retrieval in video databases by using presentations in form of a video summary G06F17/30843)}	Creating video summaries, e.g. movie trailer {(retrieval in video databases by using presentations in form of a video summary G06F17/30843)}
H04N21/858	{Linking data to content, e.g. by linking an URL to a video object, by creating a hotspot}	Linking data to content, e.g. by linking an URL to a video object, by creating a hotspot
H04Q3/545	{using a stored programme}	using a stored programme
H05B7/101	{Mountings, supports or terminals at head of electrode, i.e. at the end remote from the arc}	Mountings, supports or terminals at head of electrode, i.e. at the end remote from the arc
H05H5/04	{energised by electrostatic generators}	energised by electrostatic generators
H05H5/06	{Multistage accelerators}	Multistage accelerators
H05K3/12	{using thick film techniques, e.g. printing techniques to apply the conductive material or similar techniques for applying conductive paste or ink patterns (printing techniques in general B41M, printing apparatus B41F)}	using {thick film techniques, e.g.} printing techniques to apply the conductive material {or similar techniques for applying conductive paste or ink patterns (printing techniques in general B41M, printing apparatus B41F)}