

CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS (NOTES omitted)

INSTRUMENTS

G06 COMPUTING; CALCULATING OR COUNTING (NOTES omitted)

G06T IMAGE DATA PROCESSING OR GENERATION, IN GENERAL

WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
[G06T 1/40](#) covered by [G06T 1/20](#)
- 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.

1/00	General purpose image data processing	3/08	. Projecting images onto non-planar surfaces, e.g. geodetic screens
1/0007	. {Image acquisition}		
1/0014	. {Image feed-back for automatic industrial control, e.g. robot with camera (robots B25J 19/023)}	3/10	. Selection of transformation methods according to the characteristics of the input images
1/0021	. {Image watermarking}	3/12	. Panorpheric to cylindrical image transformations
1/0028	. . {Adaptive watermarking, e.g. Human Visual System [HVS]-based watermarking}	3/14	. Transformations for image registration, e.g. adjusting or mapping for alignment of images
1/0035	. . . {Output size adaptive watermarking}	3/147	. . using affine transformations
1/0042	. . {Fragile watermarking, e.g. so as to detect tampering}	3/153	. . using elastic snapping
1/005	. . {Robust watermarking, e.g. average attack or collusion attack resistant}	3/16	. Spatio-temporal transformations, e.g. video cubism
1/0057	. . . {Compression invariant watermarking}	3/18	. Image warping, e.g. rearranging pixels individually
1/0064	. . . {Geometric transfor invariant watermarking, e.g. affine transform invariant}	3/20	. Linear translation of whole images or parts thereof, e.g. panning
1/0071	. . . {using multiple or alternating watermarks}	3/40	. Scaling of whole images or parts thereof, e.g. expanding or contracting
1/0078	. . . {using multiple thresholds}	3/4007	. . based on interpolation, e.g. bilinear interpolation (image demosaicing G06T 3/4015 ; edge-driven or edge-based scaling G06T 3/403)
1/0085	. . {Time domain based watermarking, e.g. watermarks spread over several images}	3/4015	. . Image demosaicing, e.g. colour filter arrays [CFA] or Bayer patterns
1/0092	. . {Payload characteristic determination in a watermarking scheme, e.g. number of bits to be embedded}	3/4023	. . based on decimating pixels or lines of pixels; based on inserting pixels or lines of pixels
1/20	. Processor architectures; Processor configuration, e.g. pipelining	3/403	. . Edge-driven scaling; Edge-based scaling
1/60	. Memory management	3/4038	. . Image mosaicing, e.g. composing plane images from plane sub-images
3/00	Geometric image transformations in the plane of the image	3/4046	. . using neural networks
3/02	. Affine transformations (for image registration G06T 3/147 ; for image mosaicing G06T 3/4038)	3/4053	. . based on super-resolution, i.e. the output image resolution being higher than the sensor resolution
3/04	. Context-preserving transformations, e.g. by using an importance map (panospheric to cylindrical image transformations G06T 3/12)	3/4061	. . . by injecting details from different spectral ranges
3/047	. . Fisheye or wide-angle transformations	3/4069	. . . by subpixel displacements
3/053	. . Detail-in-context presentations (fisheye or wide-angle transformations G06T 3/047)	3/4076	. . . using the original low-resolution images to iteratively correct the high-resolution images
3/06	. Topological mapping of higher dimensional structures onto lower dimensional surfaces	3/4084	. . in the transform domain, e.g. fast Fourier transform [FFT] domain scaling
3/067	. . Reshaping or unfolding 3D tree structures onto 2D planes	3/4092	. . Image resolution transcoding, e.g. by using client-server architectures
3/073	. . Transforming surfaces of revolution to planar images, e.g. cylindrical surfaces to planar images	3/60	. Rotation of whole images or parts thereof
		3/602	. . by block rotation, e.g. by recursive reversal or rotation

3/604	. . using coordinate rotation digital computer [CORDIC] devices	7/149	. . involving deformable models, e.g. active contour models
3/606	. . by memory addressing or mapping	7/155	. . involving morphological operators
3/608	. . by skew deformation, e.g. two-pass or three-pass rotation	7/162	. . involving graph-based methods
5/00	Image enhancement or restoration	7/168	. . involving transform domain methods
	WARNING	7/174	. . involving the use of two or more images
	Group G06T 5/00 is impacted by reclassification into group G06T 5/60 .	7/181	. . involving edge growing; involving edge linking
	Groups G06T 5/00 and G06T 5/60 should be considered in order to perform a complete search.	7/187	. . involving region growing; involving region merging; involving connected component labelling
5/10	. using non-spatial domain filtering	7/194	. . involving foreground-background segmentation
5/20	. using local operators	7/20	. Analysis of motion (motion estimation for coding, decoding, compressing or decompressing digital video signals H04N 19/43, H04N 19/51)
5/30	. . Erosion or dilatation, e.g. thinning	7/207	. . for motion estimation over a hierarchy of resolutions (multi-resolution motion estimation or hierarchical motion estimation for coding, decoding, compressing or decompressing digital video signals H04N 19/53)
5/40	. using histogram techniques	7/215	. . Motion-based segmentation
5/50	. using two or more images, e.g. averaging or subtraction	7/223	. . using block-matching
5/60	. using machine learning, e.g. neural networks	7/231	. . . using full search
	WARNING	7/238	. . . using non-full search, e.g. three-step search
	Group G06T 5/60 is incomplete pending reclassification of documents from group G06T 5/00 .	7/246	. . using feature-based methods, e.g. the tracking of corners or segments
	Groups G06T 5/00 and G06T 5/60 should be considered in order to perform a complete search.	7/248	. . . { involving reference images or patches }
5/70	. Denoising; Smoothing	7/251	. . . { involving models }
5/73	. Deblurring; Sharpening	7/254	. . involving subtraction of images
5/75	. . Unsharp masking	7/262	. . using transform domain methods, e.g. Fourier domain methods
5/77	. Retouching; Inpainting; Scratch removal	7/269	. . using gradient-based methods
5/80	. Geometric correction	7/277	. . involving stochastic approaches, e.g. using Kalman filters
5/90	. Dynamic range modification of images or parts thereof	7/285	. . using a sequence of stereo image pairs
5/92	. . based on global image properties	7/292	. . Multi-camera tracking
5/94	. . based on local image properties, e.g. for local contrast enhancement	7/30	. Determination of transform parameters for the alignment of images, i.e. image registration
7/00	Image analysis	7/32	. . using correlation-based methods
7/0002	. { Inspection of images, e.g. flaw detection }	7/33	. . using feature-based methods
7/0004	. . { Industrial image inspection }	7/337	. . . { involving reference images or patches }
7/0006	. . . { using a design-rule based approach }	7/344	. . . { involving models }
7/0008	. . . { checking presence/absence }	7/35	. . using statistical methods
7/001	. . . { using an image reference approach }	7/37	. . using transform domain methods
7/0012	. . { Biomedical image inspection }	7/38	. . Registration of image sequences
7/0014	. . . { using an image reference approach }	7/40	. Analysis of texture (depth or shape recovery from texture G06T 7/529)
7/0016	. . . . {involving temporal comparison }	7/41	. . based on statistical description of texture
7/10	. Segmentation; Edge detection (motion-based segmentation G06T 7/215)	7/42	. . . using transform domain methods
	NOTE	7/44	. . . using image operators, e.g. filters, edge density metrics or local histograms
	When classifying in groups G06T 7/11 - G06T 7/13 , classification is also made in relevant groups of G06T 7/136 - G06T 7/194 .	7/45	. . . using co-occurrence matrix computation
7/11	. . Region-based segmentation	7/46	. . . using random fields
7/12	. . Edge-based segmentation	7/48	. . . using fractals
7/13	. . Edge detection	7/49	. . based on structural texture description, e.g. using primitives or placement rules
7/136	. . involving thresholding	7/50	. Depth or shape recovery
7/143	. . involving probabilistic approaches, e.g. Markov random field [MRF] modelling	7/507	. . from shading (G06T 7/586 takes precedence)
		7/514	. . from specularities
		7/521	. . from laser ranging, e.g. using interferometry; from the projection of structured light
		7/529	. . from texture
		7/536	. . from perspective effects, e.g. by using vanishing points

7/543	. . from line drawings	11/60	. Editing figures and text; Combining figures or text
7/55	. . from multiple images	11/80	. Creating or modifying a manually drawn or painted image using a manual input device, e.g. mouse, light pen, direction keys on keyboard
7/557	. . . from light fields, e.g. from plenoptic cameras		
7/564	. . . from contours		
7/571	. . . from focus	13/00	Animation
7/579	. . . from motion	13/20	. 3D [Three Dimensional] animation
7/586	. . . from multiple light sources, e.g. photometric stereo	13/205	. . {driven by audio data}
		13/40	. . of characters, e.g. humans, animals or virtual beings
7/593	. . . from stereo images		
7/596	. . . . {from three or more stereo images}	13/60	. . of natural phenomena, e.g. rain, snow, water or plants
7/60	. Analysis of geometric attributes	13/80	. 2D [Two Dimensional] animation, e.g. using sprites
7/62	. . of area, perimeter, diameter or volume		
7/64	. . of convexity or concavity	15/00	3D [Three Dimensional] image rendering
7/66	. . of image moments or centre of gravity	15/005	. {General purpose rendering architectures}
7/68	. . of symmetry	15/02	. Non-photorealistic rendering
7/70	. Determining position or orientation of objects or cameras (camera calibration G06T 7/80)	15/04	. Texture mapping
		15/06	. Ray-tracing
7/73	. . using feature-based methods	15/08	. Volume rendering
7/74	. . . {involving reference images or patches}	15/10	. Geometric effects
7/75	. . . {involving models}	15/20	. . Perspective computation
7/77	. . using statistical methods	15/205	. . . {Image-based rendering}
7/80	. Analysis of captured images to determine intrinsic or extrinsic camera parameters, i.e. camera calibration	15/30	. . Clipping
		15/40	. . Hidden part removal
7/85	. . {Stereo camera calibration}	15/405	. . . {using Z-buffer}
7/90	. Determination of colour characteristics	15/50	. Lighting effects
7/97	. {Determining parameters from multiple pictures (depth or shape recovery from multiple images G06T 7/55 ; stereo camera calibration G06T 7/85)}	15/503	. . {Blending, e.g. for anti-aliasing}
		15/506	. . {Illumination models}
9/00	Image coding (bandwidth or redundancy reduction for static pictures H04N 1/41; coding or decoding of static colour picture signals H04N 1/64; methods or arrangements for coding, decoding, compressing or decompressing digital video signals H04N 19/00)	15/55	. . Radiosity
		15/60	. . Shadow generation
9/001	. {Model-based coding, e.g. wire frame}	15/80	. . Shading
9/002	. {using neural networks}	15/83	. . . Phong shading
9/004	. {Predictors, e.g. intraframe, interframe coding}	15/87	. . . Gouraud shading
9/005	. {Statistical coding, e.g. Huffman, run length coding}	17/00	Three dimensional [3D] modelling, e.g. data description of 3D objects
		17/005	. {Tree description, e.g. octree, quadtree}
9/007	. {Transform coding, e.g. discrete cosine transform}	17/05	. Geographic models
9/008	. {Vector quantisation}	17/10	. Constructive solid geometry [CSG] using solid primitives, e.g. cylinders, cubes
9/20	. Contour coding, e.g. using detection of edges	17/20	. Finite element generation, e.g. wire-frame surface description, {tessellation}
9/40	. Tree coding, e.g. quadtree, octree	17/205	. . {Re-meshing}
		17/30	. Polynomial surface description
11/00	2D [Two Dimensional] image generation	19/00	Manipulating 3D models or images for computer graphics
11/001	. {Texturing; Colouring; Generation of texture or colour (inpainting G06T 5/77)}	19/003	. {Navigation within 3D models or images}
11/003	. {Reconstruction from projections, e.g. tomography}	19/006	. {Mixed reality (object pose determination, tracking or camera calibration for mixed reality G06T 7/00)}
11/005	. . {Specific pre-processing for tomographic reconstruction, e.g. calibration, source positioning, rebinning, scatter correction, retrospective gating}	19/20	. Editing of 3D images, e.g. changing shapes or colours, aligning objects or positioning parts
11/006	. . {Inverse problem, transformation from projection-space into object-space, e.g. transform methods, back-projection, algebraic methods}		
11/008	. . {Specific post-processing after tomographic reconstruction, e.g. voxelisation, metal artifact correction}	2200/00	Indexing scheme for image data processing or generation, in general
11/20	. Drawing from basic elements, e.g. lines or circles	2200/04	. involving 3D image data
11/203	. . {Drawing of straight lines or curves}	2200/08	. involving all processing steps from image acquisition to 3D model generation
11/206	. . {Drawing of charts or graphs}	2200/12	. involving antialiasing
11/40	. Filling a planar surface by adding surface attributes, e.g. colour or texture	2200/16	. involving adaptation to the client's capabilities
		2200/21	. involving computational photography
		2200/24	. involving graphical user interfaces [GUIs]
		2200/28	. involving image processing hardware

- 2200/32 . . involving image mosaicing
- 2200/36 . . Review paper; Tutorial; Survey
- 2201/00 General purpose image data processing**
- 2201/005 . . Image watermarking
- 2201/0051 . . Embedding of the watermark in the spatial domain
- 2201/0052 . . Embedding of the watermark in the frequency domain
- 2201/0053 . . Embedding of the watermark in the coding stream, possibly without decoding; Embedding of the watermark in the compressed domain
- 2201/0061 . . Embedding of the watermark in each block of the image, e.g. segmented watermarking
- 2201/0062 . . Embedding of the watermark in text images, e.g. watermarking text documents using letter skew, letter distance or row distance
- 2201/0063 . . in relation to collusion attacks, e.g. collusion attack resistant
- 2201/0064 . . for copy protection or copy management, e.g. CGMS, copy only once, one-time copy
- 2201/0065 . . Extraction of an embedded watermark; Reliable detection
- 2201/0081 . . whereby both original and watermarked images are required at decoder, e.g. destination-based, non-blind, non-oblivious
- 2201/0083 . . whereby only watermarked image required at decoder, e.g. source-based, blind, oblivious
- 2201/0201 . . whereby only tamper or origin are detected and no embedding takes place
- 2201/0202 . . whereby the quality of watermarked images is measured; Measuring quality or performance of watermarking methods; Balancing between quality and robustness
- 2201/0203 . . whereby the image with embedded watermark is reverted to the original condition before embedding, e.g. lossless, distortion-free or invertible watermarking
- 2201/0601 . . whereby calibration information is embedded in the watermark, e.g. a grid, a scale, a list of transformations
- 2207/00 Indexing scheme for image analysis or image enhancement**
- 2207/10 . . Image acquisition modality
- 2207/10004 . . Still image; Photographic image
- 2207/10008 . . . from scanner, fax or copier
- 2207/10012 . . . Stereo images
- 2207/10016 . . Video; Image sequence
- 2207/10021 . . . Stereoscopic video; Stereoscopic image sequence
- 2207/10024 . . Color image
- 2207/10028 . . Range image; Depth image; 3D point clouds
- 2207/10032 . . Satellite or aerial image; Remote sensing
- 2207/10036 . . . Multispectral image; Hyperspectral image
- 2207/10041 . . . Panchromatic image
- 2207/10044 . . . Radar image
- 2207/10048 . . Infrared image
- 2207/10052 . . Images from lightfield camera
- 2207/10056 . . Microscopic image
- 2207/10061 . . . from scanning electron microscope
- 2207/10064 . . Fluorescence image
- 2207/10068 . . Endoscopic image
- 2207/10072 . . Tomographic images
- 2207/10076 . . . 4D tomography; Time-sequential 3D tomography
- 2207/10081 . . . Computed x-ray tomography [CT]
- 2207/10084 . . . Hybrid tomography; Concurrent acquisition with multiple different tomographic modalities
- 2207/10088 . . . Magnetic resonance imaging [MRI]
- 2207/10092 Diffusion tensor magnetic resonance imaging [DTI]
- 2207/10096 Dynamic contrast-enhanced magnetic resonance imaging [DCE-MRI]
- 2207/10101 . . . Optical tomography; Optical coherence tomography [OCT]
- 2207/10104 . . . Positron emission tomography [PET]
- 2207/10108 . . . Single photon emission computed tomography [SPECT]
- 2207/10112 . . . Digital tomosynthesis [DTS]
- 2207/10116 . . X-ray image
- 2207/10121 . . . Fluoroscopy
- 2207/10124 . . . Digitally reconstructed radiograph [DRR]
- 2207/10128 . . . Scintigraphy
- 2207/10132 . . Ultrasound image
- 2207/10136 . . . 3D ultrasound image
- 2207/10141 . . Special mode during image acquisition
- 2207/10144 . . . Varying exposure
- 2207/10148 . . . Varying focus
- 2207/10152 . . . Varying illumination
- 2207/20 . . Special algorithmic details
- 2207/20004 . . Adaptive image processing
- 2207/20008 . . . Globally adaptive
- 2207/20012 . . . Locally adaptive
- 2207/20016 . . Hierarchical, coarse-to-fine, multiscale or multiresolution image processing; Pyramid transform
- 2207/20021 . . Dividing image into blocks, subimages or windows
- 2207/20024 . . Filtering details
- 2207/20028 . . . Bilateral filtering
- 2207/20032 . . . Median filtering
- 2207/20036 . . Morphological image processing
- 2207/20041 . . . Distance transform
- 2207/20044 . . . Skeletonization; Medial axis transform
- 2207/20048 . . Transform domain processing
- 2207/20052 . . . Discrete cosine transform [DCT]
- 2207/20056 . . . Discrete and fast Fourier transform, [DFT, FFT]
- 2207/20061 . . . Hough transform
- 2207/20064 . . . Wavelet transform [DWT]
- 2207/20068 . . Projection on vertical or horizontal image axis
- 2207/20072 . . Graph-based image processing
- 2207/20076 . . Probabilistic image processing
- 2207/20081 . . Training; Learning
- 2207/20084 . . Artificial neural networks [ANN]
- 2207/20088 . . Trinocular vision calculations; trifocal tensor
- 2207/20092 . . Interactive image processing based on input by user
- 2207/20096 . . . Interactive definition of curve of interest
- 2207/20101 . . . Interactive definition of point of interest, landmark or seed
- 2207/20104 . . . Interactive definition of region of interest [ROI]
- 2207/20108 . . . Interactive selection of 2D slice in a 3D data set
- 2207/20112 . . Image segmentation details

2207/20116	. . . Active contour; Active surface; Snakes	2207/30152	. . . Solder
2207/20121	. . . Active appearance model [AAM]	2207/30156	. . . Vehicle coating
2207/20124	. . . Active shape model [ASM]	2207/30161	. . . Wood; Lumber
2207/20128	. . . Atlas-based segmentation	2207/30164	. . . Workpiece; Machine component
2207/20132	. . . Image cropping	2207/30168	. . . Image quality inspection
2207/20152	. . . Watershed segmentation	2207/30172	. . . Centreline of tubular or elongated structure
2207/20156	. . . Automatic seed setting	2207/30176	. . . Document
2207/20161	. . . Level set	2207/30181	. . . Earth observation
2207/20164	. . . Salient point detection; Corner detection	2207/30184	. . . Infrastructure
2207/20168	. . . Radial search	2207/30188	. . . Vegetation; Agriculture
2207/20172	. . . Image enhancement details	2207/30192	. . . Weather; Meteorology
2207/20182	. . . Noise reduction or smoothing in the temporal domain; Spatio-temporal filtering	2207/30196	. . . Human being; Person
2207/20192	. . . Edge enhancement; Edge preservation	2207/30201	. . . Face
2207/20201	. . . Motion blur correction	2207/30204	. . . Marker
2207/20204	. . . Removing film grain; Adding simulated film grain	2207/30208	. . . Marker matrix
2207/20208	. . . High dynamic range [HDR] image processing	2207/30212	. . . Military
2207/20212	. . . Image combination	2207/30216	. . . Redeye defect
2207/20216	. . . Image averaging	2207/30221	. . . Sports video; Sports image
2207/20221	. . . Image fusion; Image merging	2207/30224	. . . Ball; Puck
2207/20224	. . . Image subtraction	2207/30228	. . . Playing field
2207/20228	. . . Disparity calculation for image-based rendering	2207/30232	. . . Surveillance
2207/30	. . . Subject of image; Context of image processing	2207/30236	. . . Traffic on road, railway or crossing
2207/30004	. . . Biomedical image processing	2207/30241	. . . Trajectory
2207/30008	. . . Bone	2207/30242	. . . Counting objects in image
2207/30012	. . . . Spine; Backbone	2207/30244	. . . Camera pose
2207/30016	. . . Brain	2207/30248	. . . Vehicle exterior or interior
2207/30021	. . . Catheter; Guide wire	2207/30252	. . . Vehicle exterior; Vicinity of vehicle
2207/30024	. . . Cell structures <i>in vitro</i> ; Tissue sections <i>in vitro</i>	2207/30256	. . . . Lane; Road marking
2207/30028	. . . Colon; Small intestine	2207/30261	. . . . Obstacle
2207/30032	. . . . Colon polyp	2207/30264	. . . . Parking
2207/30036	. . . Dental; Teeth	2207/30268	. . . . Vehicle interior
2207/30041	. . . Eye; Retina; Ophthalmic	2210/00	Indexing scheme for image generation or computer graphics
2207/30044	. . . Fetus; Embryo	2210/04	. . . Architectural design, interior design
2207/30048	. . . Heart; Cardiac	2210/08	. . . Bandwidth reduction
2207/30052	. . . Implant; Prosthesis	2210/12	. . . Bounding box
2207/30056	. . . Liver; Hepatic	2210/16	. . . Cloth
2207/30061	. . . Lung	2210/21	. . . Collision detection, intersection
2207/30064	. . . . Lung nodule	2210/22	. . . Cropping
2207/30068	. . . Mammography; Breast	2210/24	. . . Fluid dynamics
2207/30072	. . . Microarray; Biochip, DNA array; Well plate	2210/28	. . . Force feedback
2207/30076	. . . Plethysmography	2210/32	. . . Image data format
2207/30081	. . . Prostate	2210/36	. . . Level of detail
2207/30084	. . . Kidney; Renal	2210/41	. . . Medical
2207/30088	. . . Skin; Dermal	2210/44	. . . Morphing
2207/30092	. . . Stomach; Gastric	2210/52	. . . Parallel processing
2207/30096	. . . Tumor; Lesion	2210/56	. . . Particle system, point based geometry or rendering
2207/30101	. . . Blood vessel; Artery; Vein; Vascular	2210/61	. . . Scene description
2207/30104	. . . . Vascular flow; Blood flow; Perfusion	2210/62	. . . Semi-transparency
2207/30108	. . . Industrial image inspection	2210/64	. . . Weathering
2207/30112	. . . Baggage; Luggage; Suitcase	2211/00	Image generation
2207/30116	. . . Casting	2211/40	. . . Computed tomography
2207/30121	. . . CRT, LCD or plasma display	2211/404	. . . Angiography
2207/30124	. . . Fabrics; Textile; Paper	2211/408	. . . Dual energy
2207/30128	. . . Food products	2211/412	. . . Dynamic
2207/30132	. . . Masonry; Concrete	2211/416	. . . Exact reconstruction
2207/30136	. . . Metal	2211/421	. . . Filtered back projection [FBP]
2207/30141	. . . Printed circuit board [PCB]	2211/424	. . . Iterative
2207/30144	. . . Printing quality	2211/428	. . . Real-time
2207/30148	. . . Semiconductor; IC; Wafer	2211/432	. . . Truncation

G06T

- 2211/436 . . Limited angle
- 2211/441 . . AI-based methods, deep learning or artificial neural networks
- 2211/444 . . Low dose acquisition or reduction of radiation dose
- 2211/448 . . involving metal artefacts, streaking artefacts, beam hardening or photon starvation
- 2211/452 . . involving suppression of scattered radiation or scatter correction
- 2211/456 . . Optical coherence tomography [OCT]
- 2211/461 . . Phase contrast imaging or dark field imaging
- 2211/464 . . Dual or multimodal imaging, i.e. combining two or more imaging modalities

2213/00 Indexing scheme for animation

- 2213/04 . Animation description language
- 2213/08 . Animation software package
- 2213/12 . Rule based animation

2215/00 Indexing scheme for image rendering

- 2215/06 . Curved planar reformation of 3D line structures
- 2215/08 . Gnomonic or central projection
- 2215/12 . Shadow map, environment map
- 2215/16 . Using real world measurements to influence rendering

2219/00 Indexing scheme for manipulating 3D models or images for computer graphics

- 2219/004 . Annotating, labelling
- 2219/008 . Cut plane or projection plane definition
- 2219/012 . Dimensioning, tolerancing
- 2219/016 . Exploded view
- 2219/021 . Flattening
- 2219/024 . Multi-user, collaborative environment
- 2219/028 . Multiple view windows (top-side-front-sagittal-orthogonal)
- 2219/20 . Indexing scheme for editing of 3D models
- 2219/2004 . . Aligning objects, relative positioning of parts
- 2219/2008 . . Assembling, disassembling
- 2219/2012 . . Colour editing, changing, or manipulating; Use of colour codes
- 2219/2016 . . Rotation, translation, scaling
- 2219/2021 . . Shape modification
- 2219/2024 . . Style variation