

1.1	STATIC PRESENTATION PROCESSING (E.G., PROCESSING DATA FOR PRINTER, ETC.)	3.17	.....Clustered pattern
1.2	.Size, resolution, or scale control	3.18	.....Dispersed pattern
1.3	.Plotter	3.19	.....Stochastic or random dithering
1.4	.Plural marking means	3.2	....Screen property or geometry (e.g., shape, period, symmetry, aspect ratio)
1.5	.Position or velocity determined	3.21	...Adaptive multi-level image reproduction
1.6	.Specific to image source	3.22	...Variable threshold determined by image or other condition (e.g., adaptive thresholding)
1.7	.Flying dot (e.g., laser beam, etc.)	3.23	...Look-up table for image processing or print attribute data (e.g., threshold value, print element property)
1.8	.Dot matrix array (e.g., printheads, etc.)	3.24	..Adaptive image reproduction
1.9	.Attribute control	3.26	..Distortion control in image reproduction (e.g., removing, reducing or preventing image artifacts)
2.1	..Processing based on at least two different image attributes (e.g., character, graphic, photo, line, edge, gray-level, color)	3.27	..Enhancement control in image reproduction (e.g., smoothing or sharpening edges)
2.99	..Bi-level image reproduction (e.g., character or line reproduction)	3.28	..Embedding a hidden or unobtrusive code or pattern in a reproduced image (e.g., a watermark)
3.01	..Multi-level image reproduction (e.g., gray level reproduction)	3.29	..Engraving or perforating material to form a printing surface (e.g., printing plate, cylinder, or stencil)
3.02	...Print element property varied to represent gray level	3.3	...Halftone pattern formed on printing surface
3.03	...Error diffusion in gray level or halftone generation	3.31	...Character or design formed on printing surface (e.g., intaglio)
3.04	....Property of error weighting filter (e.g., adaptive, deterministic, random)	3.32	...Mechanical arrangement for forming a printing surface
3.05	....Adaptive error diffusion	1.11	.Character or font
3.06	...Halftoning (e.g., a pattern of print elements used to represent a gray level)	1.12	.Detail of medium positioning (e.g., movement to or from presentation location of medium, etc.)
3.07	....Rescreening (e.g., converting spatial resolution)	1.13	.Emulation or plural modes
3.08	....Descreening (e.g., inverse halftone conversion)	1.14	.Data corruption, power interruption, or print prevention
3.09	....Print element property varied to effect halftone pattern	1.15	.Communication
3.1	.....Density of print element (e.g., multi-level halftone)	1.16	.Memory
3.11	.....Shape of print element	1.17	..Page or frame memory
3.12	.....Size of print element	1.18	.Detail of image placement or content
3.13	....Dithering (e.g., spatial distribution of print elements by threshold matrix)	500	NATURAL COLOR FACSIMILE
3.14	.....Adaptive dithering		
3.15	.....Edge adaptive		
3.16	.....Ordered dithering (e.g., deterministic or systematic)		

501	.Image reproduction	407	.Facsimile relay system
502	..Ink-Jet	408	.Plural scanner station
503	..Thermal	409	.Synchronization
504	.Measuring, testing, and calibrating	410	..Sync or phase pulse generator
505	.Scanning	411	..Facsimile carrier as synchronization signal
506	..Transparency image scanning	412	..Phase or speed regulation
507	..Cathode-ray tube	413	...Start-stop
508	..Transceiver	414	...With particular clutch mechanism
509	..Illumination	415	...With pendulum
510	...Coherent light	416	...With tuning fork
511	..With prism	417	...With strobe
512	..With color filters	418	...With movable phase shifter
513	..Solid-state	419	...Receiver motor power transmitted from transmitter
514	..With plural sensors	420	...Receiver motor power source frequency change
515	.Color separation	421	...Receiver motor power source voltage change
516	..White balance correction	422	...Receiver motor power source interruption
517	..Color masking	423	...With resistance variable in receiver motor power source
518	.Color correction	424	...Stylus
519	..Gamma correction	425	.Multiplex
520	..Hue, saturation and luminance	426.01	.Reduced time or bandwidth for static image communication
521	..Gradation	426.02	..Condition based selection or control of image coding technique or communication arrangement
522	..With histogram	426.03	...Transfer rate of an uncoded or decoded image
523	..With memory for storage of conversion data	426.04	...Processing or analysis of an uncoded or decoded image
524	.Intermediate storage	426.05	...Storage arrangement or capacity
525	.Interpolation	426.06	...Amount of image data or code
526	.With mark-forming function	426.07	...Coding or decoding rate
527	.Color photography previewer	426.08	...Bandwidth or property of a communication medium
528	.Size variation	426.09	...Communication error rate or level
529	.Black signal synthesis	426.1	...Fill bit or dummy signal used
530	.Specific image-processing circuitry	426.11	...Coded image communication rate
531	..Electronic retouch	426.12	..Auxiliary information transmitted (e.g., required to perform or identify decoding technique)
532	..Sharpness emphasizing	426.13	..Combined with lossless coding technique (e.g., fixed or variable run-length coding)
533	..Moire reduction		
534	..Halftone processing		
535	...Matrix		
536	...Halftone screening		
537	..Image editing		
538	..Image portion selection		
539	..Image coding (encoder/decoder)		
540	..Composite image		
400	FACSIMILE		
401	.Image reproduction system		
402	.Electronic mailbox		
403	.Document filing and retrieval system		
404	.Facsimile memory monitoring		
405	.Image transmission accuracy verification		
406	.Facsimile measuring, testing, or calibrating		

426.14	..Combined with lossy coding technique (e.g., coding of quantized transform coefficients)	477	...Nonlight
		478	....Stylus type
		479	...Facsimile video
		480	...Coherent light
426.15	..Coding for analog facsimile equipment (e.g., Group 1 or 2)	481	....Including a polygon reflector
		482	...Solid state
426.16	..Coding for digital facsimile equipment (e.g., Group 3 or 4)	483	....Charge coupled device
		484	...Fiber optics or optical waveguides
434	.Auxiliary signal		
435	..Transmitter and receiver both supply auxiliary signal(s)	485	...Cathode-ray tube
		486	...Scan rate or document movement variation in accordance with data presence
436	..Auxiliary signal controls apparatus at both transmitter and receiver	487	...Facsimile transparency image scanning
437	..Interruption detection and control	488	...Document position detection
438	..Transmitter supplies auxiliary signal(s)	489	...Helical scanning pattern
		490	....Transparent drum
439	..Receiver supplies auxiliary signal(s)	491	.....Internal scan
		492	....Specified sheet clamp
440	..Telephone number or address of designator	493	...Curved scanning surface
		494	...Linear scanning pattern
441	..Facsimile alarm	495	....Spiral or helix aperture with linear aperture
442	.Facsimile system interface		
443	.Specific signal processing circuitry	496	...Document moves during scanning
444	..Memory interface	497	...Scanning element moves relative to a flat stationary document
445	..Signal sampling and conversion		
446	..Signal voltage or gain control		
447	..Signal enhancing	498	...Document feed
448	..Image processing	296	.Recording apparatus
461	...Shade correction	300	..Electrostatic or electrolytic
449	...Document size detection	301	..Magnetic
450	...Plural images combined into a single image	302	..Photographic
		303	..Pressure (e.g., on carbon paper)
451	...Picture size conversion		
452	...Image editing	304	..With paper cutter
453	...Image portion selection	305	MISCELLANEOUS
462	...Text and image detection and processing		
463	...Noise elimination		
464	...To distinguish intelligence from background		
465	...Picture signal thresholding		
466	....Variable thresholding technique	901.1	FIBER OPTICS
		906	HAND-HELD CAMERA WITH RECORDER IN A SINGLE UNIT
468	..Facsimile control unit	907	TRACK SKIPPERS (I.E., "GROOVE SKIPPERS")
469	..Carrier wave modulation	908	PAUSE CONTROL (I.E., "COMMERCIAL KILLERS")
470	.Coded character	909.1	ELECTRONIC STILL CAMERA OR SCENE REPRODUCER
471	.Picture signal generator		
472	..Combined read and write head		
473	..Hand-held reader		
474	..Scanning		
475	...Facsimile illumination control		
476	...Transceiver		

CROSS-REFERENCE ART COLLECTIONS

901.1	FIBER OPTICS
906	HAND-HELD CAMERA WITH RECORDER IN A SINGLE UNIT
907	TRACK SKIPPERS (I.E., "GROOVE SKIPPERS")
908	PAUSE CONTROL (I.E., "COMMERCIAL KILLERS")
909.1	ELECTRONIC STILL CAMERA OR SCENE REPRODUCER

FOREIGN ART COLLECTIONS**FOR 000 CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

**FOR 142 STATIC PRESENTATION PROCESSING
(E.G., FOR A PRINTER) (395/
101)**

- FOR 143 .Size or scale control (395/102)
- FOR 144 .Plotter (395/103)
- FOR 145 .Plural marking means (395/104)
- FOR 146 .Position or velocity determined (395/105)
- FOR 147 .Specific to image source (395/106)
- FOR 148 .Flying dot (e.g., laser beam) (395/107)
- FOR 149 .Dot matrix array (e.g., printheads) (395/108)
- FOR 150 .Attribute control (395/109)
- FOR 151 .Character or font (395/110)
- FOR 152 .Details of medium positioning (e.g., movement to or from presentation location of medium) (395/111)
- FOR 153 .Emulation or plural modes (395/112)
- FOR 154 .Data corruption, power interruption, or print prevention (395/113)
- FOR 155 .With communications (e.g., data compression, data expansion, plural devices) (395/114)
- FOR 156 .Memory (395/115)
- FOR 157 ..Page or frame memory (395/116)
- FOR 158 .Details of image placement or content (395/117)

FACSIMILE

- FOR 159 .Time or bandwidth compression (358/426)
- FOR 160 ..Run length encoding (358/261.1)
- FOR 161 ...Predictive or adaptive encoding (358/261.2)

- FOR 162 ...Two dimensional encoding (358/261.3)
- FOR 163 ...Using Huffman code (358/427)
- FOR 164 ...Having addressable memory (358/261.4)
- FOR 165 ..Two level to three level (358/262.1)
- FOR 166 ..Interpolation (358/428)
- FOR 167 ..Halftone or grey level processing (358/429)
- FOR 168 ..Adaptive or predictive (358/430)
- FOR 169 ..Fill bits or dummy signal (358/431)
- FOR 170 ..Two dimensional or orthogonal (358/432)
- FOR 171 ...Block (358/433)
- FOR 172 ...Moire effect elimination (358/454)
- FOR 173 ...Gray level processing (358/455)
- FOR 174 ...Halftone (358/456)
- FOR 175Dither matrix (358/457)
- FOR 176 ...Gradation or spatial processing (358/458)
- FOR 177Variable halftone dot shape or size (358/459)
- FOR 178Addressable storage (358/460)
- FOR 179 ...Image classification and coding (358/467)
- FOR 180 ..Ablative (358/297)
- FOR 181 ..Halftone (358/298)
- FOR 182 ...Engraving (358/299)