Symbol	Typ	Titel
G	**Sektion**	**PHYSICS**
G09	**Klasse**	**EDUCATING; CRYPTOGRAPHY; DISPLAY; ADVERTISING; SEALS**
G09G	**Unterklasse**	**ARRANGEMENTS OR CIRCUITS FOR CONTROL OF INDICATING DEVICES USING STATIC MEANS TO PRESENT VARIABLE INFORMATION (arrangements for transferring data between digital computers and displays G06F 3/14; static indicating arrangements comprising an association of a number of separate sources or light control cells G09F 9/00; static indicating arrangements comprising integral associations of a number of light sources H01J, H01K, H01L, H05B 33/12; scanning, transmission or reproduction of documents or the like, e.g. facsimile transmission, details thereof H04N 1/00) [3, 4, 5]**
G09G 1/00	**Hauptgruppe**	**Control arrangements or circuits, of interest only in connection with cathode-ray tube indicators [3, 2006.01]**
G09G 1/02	1-Punkt Untergruppe	. Storage circuits (G09G 1/06-G09G 1/28 take precedence) [3, 2006.01]
G09G 1/04	1-Punkt Untergruppe	. Deflection circuits [3, 2006.01]
G09G 1/06	1-Punkt Untergruppe	. using single beam tubes (G09G 1/26, G09G 1/28 take precedence) [3, 2006.01]
G09G 1/07	2-Punkt Untergruppe	. . with combined raster scan and calligraphic display [5, 2006.01]
G09G 1/08	2-Punkt Untergruppe	. . the beam directly tracing characters, the information to be displayed controlling the deflection as a function of time in two spatial co-ordinates, e.g. according to a cartesian co-ordinate system [3, 2006.01]
G09G 1/10	3-Punkt Untergruppe	. . . the deflection signals being produced by essentially digital means, e.g. incrementally [3, 2006.01]
G09G 1/12	3-Punkt Untergruppe	. . . the deflection signals being produced by essentially analogue means [3, 2006.01]
G09G 1/14	2-Punkt Untergruppe	. . the beam tracing a pattern independent of the information to be displayed, this latter determining the parts of the pattern rendered respectively visible and invisible [3, 2006.01]
G09G 1/16	3-Punkt Untergruppe	. . . the pattern of rectangular co-ordinates extending over the whole area of the screen, i.e. television type raster [3, 2006.01]
G09G 1/18	3-Punkt Untergruppe	. . . a small local pattern covering only a single character, and stepping to a position for the following character, e.g. in rectangular or polar co-ordinates, or in the form of a framed star [3, 2006.01]
G09G 1/20	1-Punkt Untergruppe	. using multi-beam tubes (G09G 1/26, G09G 1/28 take precedence) [3, 2006.01]
G09G 1/22	1-Punkt Untergruppe	. using tubes permitting selection of a complete character from a number of characters [3, 2006.01]
G09G 1/24	1-Punkt Untergruppe	. using tubes permitting selection of individual elements forming in combination a character [3, 2006.01]
G09G 1/26	1-Punkt Untergruppe	. using storage tubes [3, 2006.01]
G09G 1/28	1-Punkt Untergruppe	. using colour tubes [3, 2006.01]
G09G 3/00	**Hauptgruppe**	**Control arrangements or circuits, of interest only in connection with visual indicators other than cathode-ray tubes [3, 2006.01]**
G09G 3/02	1-Punkt Untergruppe	. by tracing or scanning a light beam on a screen [3, 2006.01]
G09G 3/04	1-Punkt Untergruppe	. for presentation of a single character by selection from a plurality of characters, or by composing the character by combination of individual elements, e.g. segments [3, 2006.01]
G09G 3/06	2-Punkt Untergruppe	. . using controlled light sources [3, 2006.01]
G09G 3/08	3-Punkt Untergruppe	. . . using incandescent filaments [3, 2006.01]
G09G 3/10	3-Punkt Untergruppe	. . . using gas tubes [3, 2006.01]
G09G 3/12	3-Punkt Untergruppe	. . . using electroluminescent elements [3, 2006.01]

Symbol	Typ	Titel
G09G 3/14	4-Punkt Untergruppe	. . . . Semiconductor devices, e.g. diodes [3, 2006.01]
G09G 3/16	2-Punkt Untergruppe	. . by control of light from an independent source [3, 2006.01]
G09G 3/18	3-Punkt Untergruppe	. . . using liquid crystals [3, 2006.01]
G09G 3/19	3-Punkt Untergruppe	. . . using electrochromic devices [5, 2006.01]
G09G 3/20	1-Punkt Untergruppe	. for presentation of an assembly of a number of characters, e.g. a page, by composing the assembly by combination of individual elements arranged in a matrix [3, 2006.01]
G09G 3/22	2-Punkt Untergruppe	. . using controlled light sources [3, 2006.01]
G09G 3/24	3-Punkt Untergruppe	. . . using incandescent filaments [3, 2006.01]
G09G 3/26	4-Punkt Untergruppe	. . . . to give the appearance of moving signs [3, 2006.01]
G09G 3/28	3-Punkt Untergruppe	. . . using luminous gas-discharge panels, e.g. plasma panels [3, 2006.01, 2013.01]
G09G 3/2807	4-Punkt Untergruppe	. . . . with discharge activated by high-frequency signals specially adapted therefor [2013.01]
G09G 3/2813	4-Punkt Untergruppe	. . . . using alternating current [AC] - direct current [DC] hybrid-type panels [2013.01]
G09G 3/282	4-Punkt Untergruppe	. . . . using DC panels [7, 2006.01]
G09G 3/285	5-Punkt Untergruppe	. . . . . using self-scanning [7, 2006.01]
G09G 3/288	4-Punkt Untergruppe	. . . . using AC panels [7, 2006.01, 2013.01]
G09G 3/29	5-Punkt Untergruppe	. . . . . using self-shift panels [5, 2006.01]
G09G 3/291	5-Punkt Untergruppe	. . . . . controlling the gas discharge to control a cell condition, e.g. by means of specific pulse shapes [2013.01]
G09G 3/292	6-Punkt Untergruppe	. . . . . for reset discharge, priming discharge or erase discharge occurring in a phase other than addressing [2013.01]
G09G 3/293	6-Punkt Untergruppe	. . . . . for address discharge [2013.01]
G09G 3/294	6-Punkt Untergruppe	. . . . . for lighting or sustain discharge [2013.01]
G09G 3/296	5-Punkt Untergruppe	. . . . . Driving circuits for producing the waveforms applied to the driving electrodes [2013.01]
G09G 3/297	5-Punkt Untergruppe	. . . . . using opposed discharge type panels [2013.01]
G09G 3/298	5-Punkt Untergruppe	. . . . . using surface discharge panels [2013.01]
G09G 3/299	6-Punkt Untergruppe	. . . . . using alternate lighting of surface-type panels [2013.01]
G09G 3/30	3-Punkt Untergruppe	. . . using electroluminescent panels [3, 2006.01]
G09G 3/32	4-Punkt Untergruppe	. . . . semiconductive, e.g. using light-emitting diodes [LED] [3, 2006.01, 2016.01]
G09G 3/3208	5-Punkt Untergruppe	. . . . . organic, e.g. using organic light-emitting diodes [OLED] [2016.01]
G09G 3/3216	6-Punkt Untergruppe	. . . . . using a passive matrix [2016.01]
G09G 3/3225	6-Punkt Untergruppe	. . . . . using an active matrix [2016.01]
G09G 3/3233	7-Punkt Untergruppe	. . . . . with pixel circuitry controlling the current through the light-emitting element [2016.01]
G09G 3/3241	8-Punkt Untergruppe	. . . . . the current through the light-emitting element being set using a data current provided by the data driver, e.g. by using a two-transistor current mirror [2016.01]

Symbol	Typ	Titel
G09G 3/325	9-Punkt Untergruppe	. . . . . the data current flowing through the driving transistor during a setting phase, e.g. by using a switch for connecting the driving transistor to the data driver [2016.01]
G09G 3/3258	7-Punkt Untergruppe	. . . . . with pixel circuitry controlling the voltage across the light-emitting element [2016.01]
G09G 3/3266	6-Punkt Untergruppe	. . . . . Details of drivers for scan electrodes [2016.01]
G09G 3/3275	6-Punkt Untergruppe	. . . . . Details of drivers for data electrodes [2016.01]
G09G 3/3283	7-Punkt Untergruppe	. . . . . in which the data driver supplies a variable data current for setting the current through, or the voltage across, the light-emitting elements [2016.01]
G09G 3/3291	7-Punkt Untergruppe	. . . . . in which the data driver supplies a variable data voltage for setting the current through, or the voltage across, the light-emitting elements [2016.01]
G09G 3/34	2-Punkt Untergruppe	. . by control of light from an independent source [3, 2006.01]
G09G 3/36	3-Punkt Untergruppe	. . . using liquid crystals [3, 2006.01]
G09G 3/38	3-Punkt Untergruppe	. . . using electrochromic devices [5, 2006.01]
G09G 5/00	**Hauptgruppe**	**Control arrangements or circuits for visual indicators common to cathode-ray tube indicators and other visual indicators [5, 2006.01]**
G09G 5/02	1-Punkt Untergruppe	. characterised by the way in which colour is displayed [5, 2006.01]
G09G 5/04	2-Punkt Untergruppe	. . using circuits for interfacing with colour displays [5, 2006.01]
G09G 5/06	2-Punkt Untergruppe	. . using colour palettes, e.g. look-up tables [5, 2006.01]
G09G 5/08	1-Punkt Untergruppe	. Cursor circuits [5, 2006.01]
G09G 5/10	1-Punkt Untergruppe	. Intensity circuits [5, 2006.01]
G09G 5/12	1-Punkt Untergruppe	. Synchronisation between the display unit and other units, e.g. other display units, video-disc players [5, 2006.01]
G09G 5/14	1-Punkt Untergruppe	. Display of multiple viewports [5, 2006.01]
G09G 5/16	1-Punkt Untergruppe	. Display of right-to-left language [5, 2006.01]
G09G 5/18	1-Punkt Untergruppe	. Timing circuits for raster scan displays (specially adapted for television H04N) [5, 2006.01]
G09G 5/20	1-Punkt Untergruppe	. Function-generator circuits, e.g. circle generators [5, 2006.01]
G09G 5/22	1-Punkt Untergruppe	. characterised by the display of individual characters or indicia using display control signals derived from coded signals representing the characters or indicia with a character-code memory (G09G 5/42 takes precedence) [5, 7, 2006.01]
G09G 5/24	2-Punkt Untergruppe	. . Generation of individual character patterns [5, 2006.01]
G09G 5/26	3-Punkt Untergruppe	. . . for modifying the character dimension, e.g. double width, double height [5, 2006.01]
G09G 5/28	3-Punkt Untergruppe	. . . for enhancement of character form, e.g. smoothing [5, 2006.01]
G09G 5/30	2-Punkt Untergruppe	. . Control of display attribute [5, 2006.01]
G09G 5/32	2-Punkt Untergruppe	. . with means for controlling the display position [5, 2006.01]
G09G 5/34	1-Punkt Untergruppe	. for rolling or scrolling [5, 2006.01]
G09G 5/36	1-Punkt Untergruppe	. characterised by the display of individual graphic patterns using a bit-mapped memory (G09G 5/42 takes precedence) [5, 7, 2006.01]

Symbol	Typ	Titel
G09G 5/37	2-Punkt Untergruppe	. . Details of the operation on graphic patterns (G09G 5/38 takes precedence) [7, 2006.01]
G09G 5/373	3-Punkt Untergruppe	. . . for modifying the size of the graphic pattern [7, 2006.01]
G09G 5/377	3-Punkt Untergruppe	. . . for mixing or overlaying two or more graphic patterns (G09G 5/02, G09G 5/397 take precedence) [7, 2006.01]
G09G 5/38	2-Punkt Untergruppe	. . with means for controlling the display position [5, 2006.01]
G09G 5/39	2-Punkt Untergruppe	. . Control of the bit-mapped memory [7, 2006.01]
G09G 5/391	3-Punkt Untergruppe	. . . Resolution modifying circuits, e.g. variable screen formats [7, 2006.01]
G09G 5/393	3-Punkt Untergruppe	. . . Arrangements for updating the contents of the bit-mapped memory [7, 2006.01]
G09G 5/395	3-Punkt Untergruppe	. . . Arrangements specially adapted for transferring the contents of the bit-mapped memory to the screen (G09G 5/399 takes precedence) [7, 2006.01]
G09G 5/397	4-Punkt Untergruppe	. . . . Arrangements specially adapted for transferring the contents of two or more bit-mapped memories to the screen simultaneously, e.g. for mixing or overlay (G09G 5/02 takes precedence) [7, 2006.01]
G09G 5/399	3-Punkt Untergruppe	. . . using two or more bit-mapped memories, the operations of which are switched in time, e.g. ping-pong buffers [7, 2006.01]
G09G 5/40	1-Punkt Untergruppe	. characterised by the way in which both a pattern determined by character code and another pattern are displayed simultaneously, or either pattern is displayed selectively, e.g. with character code memory and a bit-mapped memory [5, 2006.01]
G09G 5/42	1-Punkt Untergruppe	. characterised by the display of patterns using a display memory without fixed position correspondence between the display memory contents and the display position on the screen [7, 2006.01]