

| Symbol           | Typ                 | Titel                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>G</b>         | <b>Sektion</b>      | <b>PHYSICS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>G06</b>       | <b>Klasse</b>       | <b>COMPUTING; CALCULATING; COUNTING (score computers for games A63B 71/06 , A63D 15/20 , A63F 1/18; combinations of writing implements with computing devices B43K 29/08)</b>                                                                                                                                                                                                                                                                      |
| <b>G06F</b>      | <b>Unterklasse</b>  | <b>ELECTRIC DIGITAL DATA PROCESSING (computers in which a part of the computation is effected hydraulically or pneumatically G06D , optically G06E; self-contained input or output peripheral equipment G06K; computer systems based on specific computational models G06N; impedance networks using digital techniques H03H)</b>                                                                                                                  |
| <b>G06F 1/00</b> | <b>Hauptgruppe</b>  | <b>Details not covered by groups G06F 3/00 to G06F 13/00 (architectures of general purpose stored programme computers G06F 15/76)</b>                                                                                                                                                                                                                                                                                                              |
| G06F 1/02        | 1-Punkt Untergruppe | . Digital function generators                                                                                                                                                                                                                                                                                                                                                                                                                      |
| G06F 1/025       | 2-Punkt Untergruppe | . . for functions having two-valued amplitude, e.g. Walsh functions [5]                                                                                                                                                                                                                                                                                                                                                                            |
| G06F 1/03        | 2-Punkt Untergruppe | . . working, at least partly, by table look-up (G06F 1/025 takes precedence) [5]                                                                                                                                                                                                                                                                                                                                                                   |
| G06F 1/035       | 3-Punkt Untergruppe | . . . Reduction of table size [5]                                                                                                                                                                                                                                                                                                                                                                                                                  |
| G06F 1/04        | 1-Punkt Untergruppe | . Generating or distributing clock signals or signals derived directly therefrom                                                                                                                                                                                                                                                                                                                                                                   |
| G06F 1/06        | 2-Punkt Untergruppe | . . Clock generators producing several clock signals [5]                                                                                                                                                                                                                                                                                                                                                                                           |
| G06F 1/08        | 2-Punkt Untergruppe | . . Clock generators with changeable or programmable clock frequency [5]                                                                                                                                                                                                                                                                                                                                                                           |
| G06F 1/10        | 2-Punkt Untergruppe | . . Distribution of clock signals [5]                                                                                                                                                                                                                                                                                                                                                                                                              |
| G06F 1/12        | 2-Punkt Untergruppe | . . Synchronisation of different clock signals [5]                                                                                                                                                                                                                                                                                                                                                                                                 |
| G06F 1/14        | 2-Punkt Untergruppe | . . Time supervision arrangements, e.g. real time clock [5]                                                                                                                                                                                                                                                                                                                                                                                        |
| G06F 1/16        | 1-Punkt Untergruppe | . Constructional details or arrangements (instrument details G12B) [5]                                                                                                                                                                                                                                                                                                                                                                             |
| G06F 1/18        | 2-Punkt Untergruppe | . . Packaging or power distribution [5]                                                                                                                                                                                                                                                                                                                                                                                                            |
| G06F 1/20        | 2-Punkt Untergruppe | . . Cooling means [5]                                                                                                                                                                                                                                                                                                                                                                                                                              |
| G06F 1/22        | 1-Punkt Untergruppe | . Means for limiting or controlling the pin/gate ratio [5]                                                                                                                                                                                                                                                                                                                                                                                         |
| G06F 1/24        | 1-Punkt Untergruppe | . Resetting means (micro-programme loading G06F 9/24; restoration from data faults G06F 11/00) [5]                                                                                                                                                                                                                                                                                                                                                 |
| G06F 1/26        | 1-Punkt Untergruppe | . Power supply means, e.g. regulation thereof (for memories G11C) [5]                                                                                                                                                                                                                                                                                                                                                                              |
| G06F 1/28        | 2-Punkt Untergruppe | . . Supervision thereof, e.g. detecting power-supply failure by out of limits supervision [5]                                                                                                                                                                                                                                                                                                                                                      |
| G06F 1/30        | 2-Punkt Untergruppe | . . Means for acting in the event of power-supply failure or interruption, e.g. power-supply fluctuations (for resetting only G06F 1/24; involving the processing of data-words G06F 11/00) [5]                                                                                                                                                                                                                                                    |
| G06F 1/32        | 2-Punkt Untergruppe | . . Means for saving power [5]                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>G06F 3/00</b> | <b>Hauptgruppe</b>  | <b>Input arrangements for transferring data to be processed into a form capable of being handled by the computer; Output arrangements for transferring data from processing unit to output unit, e.g. interface arrangements (typewriters B41J; conversion of physical variables F15B 5/00 , G01; image acquisition G06T 1/00 , G06T 9/00; coding, decoding or code conversion, in general H03M; transmission of digital information H04L) [4]</b> |
| G06F 3/02        | 1-Punkt Untergruppe | . Manual input, e.g. key, dial (electromechanical switches H01H; electronic switches characterised by the way in which the control signals are generated H03K 17/94) [3]                                                                                                                                                                                                                                                                           |

| Symbol           | Typ                 | Titel                                                                                                                                                                                                                                                                                                      |
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| G06F 3/023       | 2-Punkt Untergruppe | . . Arrangements for converting discrete items of information into a coded form, e.g. keyboards for generating alphanumeric codes, operand codes, instruction codes (keyboard switches in general H01H 13/70 , H03K 17/94; coding in connection with keyboards or like devices, in general H03M 11/00) [3] |
| G06F 3/027       | 3-Punkt Untergruppe | . . . for insertion of the decimal point [3]                                                                                                                                                                                                                                                               |
| G06F 3/03        | 2-Punkt Untergruppe | . . Arrangements for converting the position of a member into a coded form (in combination with display device G06F 3/033; position-indicating arrangements with manually operated feeler per se G06K 11/06) [3]                                                                                           |
| G06F 3/033       | 2-Punkt Untergruppe | . . using a movable member co-operating with a display device, e.g. light-pen, joystick, tracing-ball [3]                                                                                                                                                                                                  |
| G06F 3/037       | 3-Punkt Untergruppe | . . . wherein the display device is a cathode-ray tube [3]                                                                                                                                                                                                                                                 |
| G06F 3/05        | 1-Punkt Untergruppe | . Digital input using the sampling of an analogue quantity at regular intervals of time (sample-and-hold arrangements G11C 27/02; sampling per se H03K 17/00; analogue/digital conversion, in general H03M 1/00)                                                                                           |
| G06F 3/06        | 1-Punkt Untergruppe | . Digital input from, or digital output to, record carriers                                                                                                                                                                                                                                                |
| G06F 3/08        | 2-Punkt Untergruppe | . . from or to individual record carriers, e.g. punched card                                                                                                                                                                                                                                               |
| G06F 3/09        | 1-Punkt Untergruppe | . Digital output to typewriters [3]                                                                                                                                                                                                                                                                        |
| G06F 3/12        | 1-Punkt Untergruppe | . Digital output to print unit (digital output to typewriter G06F 3/09; arrangements for producing a permanent visual presentation of the output data using printers G06K 15/02)                                                                                                                           |
| G06F 3/13        | 1-Punkt Untergruppe | . Digital output to plotter (arrangements for producing a permanent visual presentation of the output data using plotters G06K 15/22) [3]                                                                                                                                                                  |
| G06F 3/14        | 1-Punkt Untergruppe | . Digital output to display device (arrangements for producing a permanent visual presentation of the output data G06K 15/00; control of display in general G09G)                                                                                                                                          |
| G06F 3/147       | 2-Punkt Untergruppe | . . using display panels [3]                                                                                                                                                                                                                                                                               |
| G06F 3/153       | 2-Punkt Untergruppe | . . using cathode-ray tubes [3]                                                                                                                                                                                                                                                                            |
| G06F 3/16        | 1-Punkt Untergruppe | . Sound input; Sound output (conversion of speech into digital information or vice versa G10L)                                                                                                                                                                                                             |
| G06F 3/18        | 1-Punkt Untergruppe | . Digital input from automatic curve follower (automatic curve followers per se G06K 11/02) [3]                                                                                                                                                                                                            |
| <b>G06F 5/00</b> | <b>Hauptgruppe</b>  | <b>Methods or arrangements for data conversion without changing the order or content of the data handled (coding, decoding or code conversion, in general H03M) [4]</b>                                                                                                                                    |
| G06F 5/01        | 1-Punkt Untergruppe | . for shifting, e.g. justifying, scaling, normalising [5]                                                                                                                                                                                                                                                  |
| G06F 5/06        | 1-Punkt Untergruppe | . for changing the speed of data flow, i.e. speed regularising                                                                                                                                                                                                                                             |
| <b>G06F 7/00</b> | <b>Hauptgruppe</b>  | <b>Methods or arrangements for processing data by operating upon the order or content of the data handled (logic circuits H03K 19/00)</b>                                                                                                                                                                  |
| G06F 7/02        | 1-Punkt Untergruppe | . Comparing digital values (G06F 7/06 , G06F 7/38 take precedence; information retrieval G06F 17/30; comparing pulses H03K 5/22)                                                                                                                                                                           |
| G06F 7/04        | 2-Punkt Untergruppe | . . Identity comparison, i.e. for like or unlike values                                                                                                                                                                                                                                                    |
| G06F 7/06        | 1-Punkt Untergruppe | . Arrangements for sorting, selecting, merging, or comparing data on individual record carriers (sorting of postal letters B07C; conveying record carriers from one station to another G06K 13/02)                                                                                                         |
| G06F 7/08        | 2-Punkt Untergruppe | . . Sorting, i.e. grouping record carriers in numerical or other ordered sequence according to the classification of at least some of the information they carry (by merging two or more sets of carriers in ordered sequence G06F 7/16)                                                                   |
| G06F 7/10        | 2-Punkt Untergruppe | . . Selecting, i.e. obtaining data of one kind from those record carriers which are identifiable by data of a second kind from a mass of ordered or randomly-distributed record carriers                                                                                                                   |
| G06F 7/12        | 3-Punkt Untergruppe | . . . with provision for printing-out a list of selected items                                                                                                                                                                                                                                             |

| Symbol     | Typ                 | Titel                                                                                                                                                                                                                                                                |
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| G06F 7/14  | 2-Punkt Untergruppe | . . Merging, i.e. combining at least two sets of record carriers each arranged in the same ordered sequence to produce a single set having the same ordered sequence                                                                                                 |
| G06F 7/16  | 3-Punkt Untergruppe | . . . Combined merging and sorting                                                                                                                                                                                                                                   |
| G06F 7/20  | 2-Punkt Untergruppe | . . Comparing separate sets of record carriers arranged in the same sequence to determine whether at least some of the data in one set is identical with that in the other set or sets                                                                               |
| G06F 7/22  | 1-Punkt Untergruppe | . Arrangements for sorting or merging computer data on continuous record carriers, e.g. tape, drum, disc                                                                                                                                                             |
| G06F 7/24  | 2-Punkt Untergruppe | . . Sorting, i.e. extracting data from one or more carriers, re-arranging the data in numerical or other ordered sequence, and re-recording the sorted data on the original carrier or on a different carrier or set of carriers (G06F 7/36 takes precedence)        |
| G06F 7/26  | 3-Punkt Untergruppe | . . . the sorted data being recorded on the original record carrier within the same space in which the data had been recorded prior to their sorting, without using intermediate storage                                                                             |
| G06F 7/32  | 2-Punkt Untergruppe | . . Merging, i.e. combining data contained in ordered sequence on at least two record carriers to produce a single carrier or set of carriers having all the original data in the ordered sequence (G06F 7/36 takes precedence)                                      |
| G06F 7/36  | 2-Punkt Untergruppe | . . Combined merging and sorting                                                                                                                                                                                                                                     |
| G06F 7/38  | 1-Punkt Untergruppe | . Methods or arrangements for performing computations using exclusively denominational number representation, e.g. using binary, ternary, decimal representation [3]                                                                                                 |
| G06F 7/40  | 2-Punkt Untergruppe | . . using contact-making devices, e.g. electromagnetic relay (G06F 7/46 takes precedence)                                                                                                                                                                            |
| G06F 7/42  | 3-Punkt Untergruppe | . . . Adding; Subtracting                                                                                                                                                                                                                                            |
| G06F 7/44  | 3-Punkt Untergruppe | . . . Multiplying; Dividing                                                                                                                                                                                                                                          |
| G06F 7/46  | 2-Punkt Untergruppe | . . using electromechanical counter-type accumulators                                                                                                                                                                                                                |
| G06F 7/48  | 2-Punkt Untergruppe | . . using non-contact-making devices, e.g. tube, solid state device; using unspecified devices [3]                                                                                                                                                                   |
| G06F 7/49  | 3-Punkt Untergruppe | . . . Computations with a radix, other than binary, 8, 16 or decimal, e.g. ternary, negative or imaginary radices, mixed radix [3]                                                                                                                                   |
| G06F 7/50  | 3-Punkt Untergruppe | . . . Adding; Subtracting (G06F 7/49 , G06F 7/544 to G06F 7/556 take precedence) [3]                                                                                                                                                                                 |
| G06F 7/52  | 3-Punkt Untergruppe | . . . Multiplying; Dividing (G06F 7/49 , G06F 7/544 to G06F 7/556 take precedence) [3]                                                                                                                                                                               |
| G06F 7/54  | 4-Punkt Untergruppe | . . . . using column-shifting                                                                                                                                                                                                                                        |
| G06F 7/544 | 3-Punkt Untergruppe | . . . for evaluating functions by calculation (with a look-up table G06F 1/02) [3]                                                                                                                                                                                   |
| G06F 7/548 | 4-Punkt Untergruppe | . . . . Trigonometric functions; Co-ordinate transformations [3]                                                                                                                                                                                                     |
| G06F 7/552 | 4-Punkt Untergruppe | . . . . Powers or roots [3]                                                                                                                                                                                                                                          |
| G06F 7/556 | 4-Punkt Untergruppe | . . . . Logarithmic or exponential functions [3]                                                                                                                                                                                                                     |
| G06F 7/58  | 1-Punkt Untergruppe | . Random or pseudo-random number generators [3]                                                                                                                                                                                                                      |
| G06F 7/60  | 1-Punkt Untergruppe | . Methods or arrangements for performing computations using a digital non-denominational number representation, i.e. number representation without radix; Computing devices using combinations of denominational and non-denominational quantity representations [3] |
| G06F 7/62  | 2-Punkt Untergruppe | . . Performing operations exclusively by counting total number of pulses [3]                                                                                                                                                                                         |

| Symbol           | Typ                 | Titel                                                                                                                                                                                                                                                                                                                                                      |
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| G06F 7/64        | 2-Punkt Untergruppe | . . Digital differential analysers, i.e. computing devices for differentiation, integration or solving differential or integral equations, using pulses representing increments; Other incremental computing devices for solving difference equations (G06F 7/70 takes precedence; differential analysers using hybrid computing techniques G06J 1/02) [3] |
| G06F 7/66        | 3-Punkt Untergruppe | . . . wherein pulses represent unitary increments only [3]                                                                                                                                                                                                                                                                                                 |
| G06F 7/68        | 2-Punkt Untergruppe | . . using pulse rate multipliers or dividers (G06F 7/70 takes precedence) [3]                                                                                                                                                                                                                                                                              |
| G06F 7/70        | 2-Punkt Untergruppe | . . using stochastic pulse trains, i.e. randomly occurring pulses the average pulse rates of which represent numbers [3]                                                                                                                                                                                                                                   |
| G06F 7/72        | 2-Punkt Untergruppe | . . using residue arithmetic [3]                                                                                                                                                                                                                                                                                                                           |
| <b>G06F 9/00</b> | <b>Hauptgruppe</b>  | <b>Arrangements for programme control, e.g. control unit (programme control for peripheral devices G06F 13/10) [4]</b>                                                                                                                                                                                                                                     |
| G06F 9/02        | 1-Punkt Untergruppe | . using wired connections, e.g. plugboard                                                                                                                                                                                                                                                                                                                  |
| G06F 9/04        | 1-Punkt Untergruppe | . using record carriers containing only programme instructions (G06F 9/06 takes precedence)                                                                                                                                                                                                                                                                |
| G06F 9/06        | 1-Punkt Untergruppe | . using stored programme, i.e. using internal store of processing equipment to receive and retain programme                                                                                                                                                                                                                                                |
| G06F 9/22        | 2-Punkt Untergruppe | . . Micro-control or micro-programme arrangements [3]                                                                                                                                                                                                                                                                                                      |
| G06F 9/24        | 3-Punkt Untergruppe | . . . Loading of the micro-programme [3]                                                                                                                                                                                                                                                                                                                   |
| G06F 9/26        | 3-Punkt Untergruppe | . . . Address formation of the next micro-instruction (G06F 9/28 takes precedence) [3]                                                                                                                                                                                                                                                                     |
| G06F 9/28        | 3-Punkt Untergruppe | . . . Enhancement of operational speed, e.g. by using several micro-control devices operating in parallel [3]                                                                                                                                                                                                                                              |
| G06F 9/30        | 2-Punkt Untergruppe | . . Arrangements for executing machine- instructions, e.g. instruction decode (for executing micro-instructions G06F 9/22; for executing subprogrammes G06F 9/40) [3]                                                                                                                                                                                      |
| G06F 9/302       | 3-Punkt Untergruppe | . . . Controlling the executing of arithmetic operations [5]                                                                                                                                                                                                                                                                                               |
| G06F 9/305       | 3-Punkt Untergruppe | . . . Controlling the executing of logical operations [5]                                                                                                                                                                                                                                                                                                  |
| G06F 9/308       | 3-Punkt Untergruppe | . . . Controlling single bit operations (G06F 9/305 takes precedence) [5]                                                                                                                                                                                                                                                                                  |
| G06F 9/312       | 3-Punkt Untergruppe | . . . Controlling loading, storing or clearing operations [5]                                                                                                                                                                                                                                                                                              |
| G06F 9/315       | 3-Punkt Untergruppe | . . . Controlling moving, shifting or rotation operations [5]                                                                                                                                                                                                                                                                                              |
| G06F 9/318       | 3-Punkt Untergruppe | . . . with operation extension or modification [5]                                                                                                                                                                                                                                                                                                         |
| G06F 9/32        | 3-Punkt Untergruppe | . . . Address formation of the next instruction, e.g. incrementing the instruction counter, jump (G06F 9/38 takes precedence; subprogramme jump G06F 9/42) [3]                                                                                                                                                                                             |
| G06F 9/34        | 3-Punkt Untergruppe | . . . Addressing or accessing the instruction operand or the result (address translation G06F 12/00) [3, 5]                                                                                                                                                                                                                                                |
| G06F 9/345       | 4-Punkt Untergruppe | . . . . of multiple operands or results [5]                                                                                                                                                                                                                                                                                                                |
| G06F 9/35        | 4-Punkt Untergruppe | . . . . Indirect addressing [5]                                                                                                                                                                                                                                                                                                                            |
| G06F 9/355       | 4-Punkt Untergruppe | . . . . Indexed addressing [5]                                                                                                                                                                                                                                                                                                                             |
| G06F 9/38        | 3-Punkt Untergruppe | . . . Concurrent instruction execution, e.g. pipeline, look ahead [3]                                                                                                                                                                                                                                                                                      |
| G06F 9/40        | 2-Punkt Untergruppe | . . Arrangements for executing subprogrammes, i.e. combinations of several instructions [3]                                                                                                                                                                                                                                                                |
| G06F 9/42        | 3-Punkt Untergruppe | . . . Formation of subprogramme-jump address or of return address [3]                                                                                                                                                                                                                                                                                      |
| G06F 9/44        | 2-Punkt Untergruppe | . . Arrangements for executing specific programmes [3]                                                                                                                                                                                                                                                                                                     |

| Symbol            | Typ                        | Titel                                                                                                                                                                                                                                                                                                                                                                                                 |
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| G06F 9/445        | 3-Punkt Untergruppe        | . . . Programme loading or initiating [5]                                                                                                                                                                                                                                                                                                                                                             |
| G06F 9/45         | 3-Punkt Untergruppe        | . . . Compilation or interpretation of high level programme languages [5]                                                                                                                                                                                                                                                                                                                             |
| G06F 9/455        | 3-Punkt Untergruppe        | . . . Emulation; Software simulation [5]                                                                                                                                                                                                                                                                                                                                                              |
| G06F 9/46         | 2-Punkt Untergruppe        | . . Multiprogramming arrangements [3]                                                                                                                                                                                                                                                                                                                                                                 |
| <i>G06F 9/48</i>  | <i>3-Punkt Untergruppe</i> | <i>. . . Programme initiating ; Programme switching, e.g. by interrupt [7]</i>                                                                                                                                                                                                                                                                                                                        |
| <i>G06F 9/50</i>  | <i>3-Punkt Untergruppe</i> | <i>. . . Allocation of resources, e.g. of the central processing unit (CPU) [7]</i>                                                                                                                                                                                                                                                                                                                   |
| <i>G06F 9/52</i>  | <i>3-Punkt Untergruppe</i> | <i>. . . Programme synchronisation ; Mutual exclusion, e.g. by means of semaphores [7]</i>                                                                                                                                                                                                                                                                                                            |
| <i>G06F 9/54</i>  | <i>3-Punkt Untergruppe</i> | <i>. . . Interprogramme communication [7]</i>                                                                                                                                                                                                                                                                                                                                                         |
| <b>G06F 11/00</b> | <b>Hauptgruppe</b>         | <b>Error detection; Error correction; Monitoring (methods or arrangements for verifying the correctness of marking on a record carrier G06K 5/00; in information storage based on relative movement between record carrier and transducer G11B , e.g. G11B 20/18; in static stores G11C; coding, decoding or code conversion, for error detection or error correction, in general H03M 13/00) [4]</b> |
| <i>G06F 11/07</i> | <i>1-Punkt Untergruppe</i> | <i>. Responding to the occurrence of a fault, e.g. fault tolerance [7]</i>                                                                                                                                                                                                                                                                                                                            |
| G06F 11/08        | 2-Punkt Untergruppe        | . . Error detection or correction by redundancy in data representation, e.g. by using checking codes                                                                                                                                                                                                                                                                                                  |
| G06F 11/10        | 3-Punkt Untergruppe        | . . . Adding special bits or symbols to the coded information, e.g. parity check, casting out nines or elevens                                                                                                                                                                                                                                                                                        |
| G06F 11/14        | 2-Punkt Untergruppe        | . . Error detection or correction of the data by redundancy in operation, e.g. by using different operation sequences leading to the same result (G06F 11/16 takes precedence) [3]                                                                                                                                                                                                                    |
| G06F 11/16        | 2-Punkt Untergruppe        | . . Error detection or correction of the data by redundancy in hardware [3]                                                                                                                                                                                                                                                                                                                           |
| G06F 11/18        | 3-Punkt Untergruppe        | . . . using passive fault-masking of the redundant circuits, e.g. by quadding or by majority decision circuits [3]                                                                                                                                                                                                                                                                                    |
| G06F 11/20        | 3-Punkt Untergruppe        | . . . using active fault-masking, e.g. by switching out faulty elements or by switching in spare elements [3]                                                                                                                                                                                                                                                                                         |
| G06F 11/22        | 1-Punkt Untergruppe        | . Detection or location of defective computer hardware by testing during standby operation or during idle time, e.g. start-up testing (testing of digital circuits, e.g. of separate computer components, G01R 31/317) [3]                                                                                                                                                                            |
| G06F 11/24        | 2-Punkt Untergruppe        | . . Marginal testing [3]                                                                                                                                                                                                                                                                                                                                                                              |
| G06F 11/25        | 2-Punkt Untergruppe        | . . Testing of logic operation, e.g. by logic analysers [6]                                                                                                                                                                                                                                                                                                                                           |
| G06F 11/26        | 2-Punkt Untergruppe        | . . Functional testing [3]                                                                                                                                                                                                                                                                                                                                                                            |
| G06F 11/263       | 3-Punkt Untergruppe        | . . . Generation of test inputs, e.g. test vectors, patterns or sequences [6]                                                                                                                                                                                                                                                                                                                         |
| G06F 11/267       | 3-Punkt Untergruppe        | . . . Reconfiguring circuits for testing, e.g. LSSD, partitioning [6]                                                                                                                                                                                                                                                                                                                                 |
| G06F 11/27        | 3-Punkt Untergruppe        | . . . Built-in tests [6]                                                                                                                                                                                                                                                                                                                                                                              |
| G06F 11/273       | 3-Punkt Untergruppe        | . . . Tester hardware, i.e. output processing circuits [6]                                                                                                                                                                                                                                                                                                                                            |
| G06F 11/277       | 4-Punkt Untergruppe        | . . . . with comparison between actual response and known fault-free response [6]                                                                                                                                                                                                                                                                                                                     |
| G06F 11/28        | 1-Punkt Untergruppe        | . by checking the correct order of processing (G06F 11/07 , G06F 11/22 take precedence; monitoring patterns of pulse trains H03K 5/19) [3]                                                                                                                                                                                                                                                            |
| G06F 11/30        | 1-Punkt Untergruppe        | . Monitoring [3]                                                                                                                                                                                                                                                                                                                                                                                      |
| G06F 11/32        | 2-Punkt Untergruppe        | . . with visual indication of the functioning of the machine [3]                                                                                                                                                                                                                                                                                                                                      |

| Symbol            | Typ                        | Titel                                                                                                                                                                                                                                                                                                                    |
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| G06F 11/34        | 2-Punkt Untergruppe        | . . Recording or statistical evaluation of computer activity, e.g. of down time, of input/output operation [3]                                                                                                                                                                                                           |
| <i>G06F 11/36</i> | <i>1-Punkt Untergruppe</i> | <i>. . Preventing errors by testing or debugging of software [7]</i>                                                                                                                                                                                                                                                     |
| <b>G06F 12/00</b> | <b>Hauptgruppe</b>         | <b>Accessing, addressing or allocating within memory systems or architectures (information storage in general G11) [4, 5]</b>                                                                                                                                                                                            |
| G06F 12/02        | 1-Punkt Untergruppe        | . Addressing or allocation; Relocation (programme address sequencing G06F 9/00; arrangements for selecting an address in a digital store G11C 8/00) [4]                                                                                                                                                                  |
| G06F 12/04        | 2-Punkt Untergruppe        | . . Addressing variable-length words or parts of words [4]                                                                                                                                                                                                                                                               |
| G06F 12/06        | 2-Punkt Untergruppe        | . . Addressing a physical block of locations, e.g. base addressing, module addressing, address space extension, memory dedication (G06F 12/08 takes precedence) [4]                                                                                                                                                      |
| G06F 12/08        | 2-Punkt Untergruppe        | . . in hierarchically structured memory systems, e.g. virtual memory systems [4]                                                                                                                                                                                                                                         |
| G06F 12/10        | 3-Punkt Untergruppe        | . . . Address translation [4]                                                                                                                                                                                                                                                                                            |
| G06F 12/12        | 3-Punkt Untergruppe        | . . . Replacement control [4]                                                                                                                                                                                                                                                                                            |
| G06F 12/14        | 1-Punkt Untergruppe        | . Protection against unauthorised use of memory [4]                                                                                                                                                                                                                                                                      |
| G06F 12/16        | 1-Punkt Untergruppe        | . Protection against loss of memory contents [4]                                                                                                                                                                                                                                                                         |
| <b>G06F 13/00</b> | <b>Hauptgruppe</b>         | <b>Interconnection of, or transfer of information or other signals between, memories, input/output devices or central processing units (interface circuits for specific input/output devices G06F 3/00; multi-processor systems G06F 15/16; transmission of digital information in general H04L; selecting H04Q) [4]</b> |
| G06F 13/10        | 1-Punkt Untergruppe        | . Programme control for peripheral devices (G06F 13/14 to G06F 13/42 take precedence) [4]                                                                                                                                                                                                                                |
| G06F 13/12        | 2-Punkt Untergruppe        | . . using hardware independent of the central processor, e.g. channel or peripheral processor [4]                                                                                                                                                                                                                        |
| G06F 13/14        | 1-Punkt Untergruppe        | . Handling requests for interconnection or transfer [4]                                                                                                                                                                                                                                                                  |
| G06F 13/16        | 2-Punkt Untergruppe        | . . for access to memory bus (G06F 13/28 takes precedence) [4]                                                                                                                                                                                                                                                           |
| G06F 13/18        | 3-Punkt Untergruppe        | . . . with priority control [4]                                                                                                                                                                                                                                                                                          |
| G06F 13/20        | 2-Punkt Untergruppe        | . . for access to input/output bus [4]                                                                                                                                                                                                                                                                                   |
| G06F 13/22        | 3-Punkt Untergruppe        | . . . using successive scanning, e.g. polling (G06F 13/24 takes precedence) [4]                                                                                                                                                                                                                                          |
| G06F 13/24        | 3-Punkt Untergruppe        | . . . using interrupt (G06F 13/32 takes precedence) [4]                                                                                                                                                                                                                                                                  |
| G06F 13/26        | 4-Punkt Untergruppe        | . . . . with priority control [4]                                                                                                                                                                                                                                                                                        |
| G06F 13/28        | 3-Punkt Untergruppe        | . . . using burst mode transfer, e.g. direct memory access, cycle steal (G06F 13/32 takes precedence) [4]                                                                                                                                                                                                                |
| G06F 13/30        | 4-Punkt Untergruppe        | . . . . with priority control [4]                                                                                                                                                                                                                                                                                        |
| G06F 13/32        | 3-Punkt Untergruppe        | . . . using combination of interrupt and burst mode transfer [4]                                                                                                                                                                                                                                                         |
| G06F 13/34        | 4-Punkt Untergruppe        | . . . . with priority control [4]                                                                                                                                                                                                                                                                                        |
| G06F 13/36        | 2-Punkt Untergruppe        | . . for access to common bus or bus system [4]                                                                                                                                                                                                                                                                           |
| G06F 13/362       | 3-Punkt Untergruppe        | . . . with centralised access control [5]                                                                                                                                                                                                                                                                                |
| G06F 13/364       | 4-Punkt Untergruppe        | . . . . using independent requests or grants, e.g. using separated request and grant lines [5]                                                                                                                                                                                                                           |
| G06F 13/366       | 4-Punkt Untergruppe        | . . . . using a centralised polling arbiter [5]                                                                                                                                                                                                                                                                          |
| G06F 13/368       | 3-Punkt Untergruppe        | . . . with decentralised access control [5]                                                                                                                                                                                                                                                                              |

| Symbol            | Typ                 | Titel                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G06F 13/37        | 4-Punkt Untergruppe | . . . . using a physical-position-dependent priority, e.g. daisy chain, round robin or token passing [5]                                                                                                                                                                                                                                                                                                  |
| G06F 13/372       | 4-Punkt Untergruppe | . . . . using a time-dependent priority, e.g. individually loaded time counters or time slot [5]                                                                                                                                                                                                                                                                                                          |
| G06F 13/374       | 4-Punkt Untergruppe | . . . . using a self-select method with individual priority code comparator [5]                                                                                                                                                                                                                                                                                                                           |
| G06F 13/376       | 4-Punkt Untergruppe | . . . . using a contention resolving method, e.g. collision detection, collision avoidance [5]                                                                                                                                                                                                                                                                                                            |
| G06F 13/378       | 4-Punkt Untergruppe | . . . . using a parallel poll method [5]                                                                                                                                                                                                                                                                                                                                                                  |
| G06F 13/38        | 1-Punkt Untergruppe | . Information transfer, e.g. on bus (G06F 13/14 takes precedence) [4]                                                                                                                                                                                                                                                                                                                                     |
| G06F 13/40        | 2-Punkt Untergruppe | . . Bus structure [4]                                                                                                                                                                                                                                                                                                                                                                                     |
| G06F 13/42        | 2-Punkt Untergruppe | . . Bus transfer protocol, e.g. handshake; Synchronisation (synchronisation in transmission of digital information in general H04L 7/00) [4]                                                                                                                                                                                                                                                              |
| <b>G06F 15/00</b> | <b>Hauptgruppe</b>  | <b>Digital computers in general (details G06F 1/00 to G06F 13/00); Data processing equipment in general (neural networks for image data processing G06T)</b>                                                                                                                                                                                                                                              |
| G06F 15/02        | 1-Punkt Untergruppe | . manually operated with input through keyboard and computation using a built-in programme, e.g. pocket calculators                                                                                                                                                                                                                                                                                       |
| G06F 15/04        | 1-Punkt Untergruppe | . programmed simultaneously with the introduction of data to be processed, e.g. on the same record carrier                                                                                                                                                                                                                                                                                                |
| G06F 15/08        | 1-Punkt Untergruppe | . using a plugboard for programming [5]                                                                                                                                                                                                                                                                                                                                                                   |
| G06F 15/10        | 2-Punkt Untergruppe | . . Tabulators [5]                                                                                                                                                                                                                                                                                                                                                                                        |
| G06F 15/12        | 3-Punkt Untergruppe | . . . having provision for both printed and punched output [5]                                                                                                                                                                                                                                                                                                                                            |
| G06F 15/14        | 2-Punkt Untergruppe | . . Calculating-punches [5]                                                                                                                                                                                                                                                                                                                                                                               |
| G06F 15/16        | 1-Punkt Untergruppe | . Combinations of two or more digital computers each having at least an arithmetic unit, a programme unit and a register, e.g. for a simultaneous processing of several programmes (interface circuits for specific input/output devices G06F 3/00; multi-programming arrangements G06F 9/46; transmission of digital information in general H04L , e.g. in computer networks H04L 12/00; selecting H04Q) |
| G06F 15/163       | 2-Punkt Untergruppe | . . Interprocessor communication [6]                                                                                                                                                                                                                                                                                                                                                                      |
| G06F 15/167       | 3-Punkt Untergruppe | . . . using a common memory, e.g. mailbox (memory protection G06F 12/14; memory access priority G06F 13/18) [6]                                                                                                                                                                                                                                                                                           |
| G06F 15/17        | 3-Punkt Untergruppe | . . . using an input/output type connection, e.g. channel, I/O port [6]                                                                                                                                                                                                                                                                                                                                   |
| G06F 15/173       | 3-Punkt Untergruppe | . . . using an interconnection network, e.g. matrix, shuffle, pyramid, star, snowflake (interface switching circuits G06F 13/40) [6]                                                                                                                                                                                                                                                                      |
| G06F 15/177       | 2-Punkt Untergruppe | . . Initialisation or configuration control (configuration control for monitoring, testing or in case of failure G06F 11/00) [6]                                                                                                                                                                                                                                                                          |
| G06F 15/18        | 1-Punkt Untergruppe | . in which a programme is changed according to experience gained by the computer itself during a complete run; Learning machines (adaptive control systems G05B 13/00)                                                                                                                                                                                                                                    |
| G06F 15/76        | 1-Punkt Untergruppe | . Architectures of general purpose stored programme computers (with programme plugboard G06F 15/08; multicomputers G06F 15/16; general purpose image data processing G06T 1/00) [5, 6]                                                                                                                                                                                                                    |
| G06F 15/78        | 2-Punkt Untergruppe | . . comprising a single central processing unit [5]                                                                                                                                                                                                                                                                                                                                                       |
| G06F 15/80        | 2-Punkt Untergruppe | . . comprising an array of processing units with common control, e.g. single instruction multiple data processors (G06F 15/82 takes precedence) [5]                                                                                                                                                                                                                                                       |
| G06F 15/82        | 2-Punkt Untergruppe | . . data or demand driven [5]                                                                                                                                                                                                                                                                                                                                                                             |
| <b>G06F 17/00</b> | <b>Hauptgruppe</b>  | <b>Digital computing or data processing equipment or methods, specially adapted for specific</b>                                                                                                                                                                                                                                                                                                          |

| Symbol               | Typ                 | Titel                                                                                                                                                                                                                                                                                                        |
|----------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>functions [6]</b> |                     |                                                                                                                                                                                                                                                                                                              |
| G06F 17/10           | 1-Punkt Untergruppe | . Complex mathematical operations [6]                                                                                                                                                                                                                                                                        |
| G06F 17/11           | 2-Punkt Untergruppe | . . for solving equations [6]                                                                                                                                                                                                                                                                                |
| G06F 17/12           | 3-Punkt Untergruppe | . . . Simultaneous equations [6]                                                                                                                                                                                                                                                                             |
| G06F 17/13           | 3-Punkt Untergruppe | . . . Differential equations (using digital differential analysers G06F 7/64) [6]                                                                                                                                                                                                                            |
| G06F 17/14           | 2-Punkt Untergruppe | . . Fourier, Walsh or analogous domain transformations [6]                                                                                                                                                                                                                                                   |
| G06F 17/15           | 2-Punkt Untergruppe | . . Correlation function computation [6]                                                                                                                                                                                                                                                                     |
| G06F 17/16           | 2-Punkt Untergruppe | . . Matrix or vector computation [6]                                                                                                                                                                                                                                                                         |
| G06F 17/17           | 2-Punkt Untergruppe | . . Function evaluation by approximation methods, e.g. inter- or extrapolation, smoothing, least mean square method (interpolation for numerical control G05B 19/18) [6]                                                                                                                                     |
| G06F 17/18           | 2-Punkt Untergruppe | . . for evaluating statistical data [6]                                                                                                                                                                                                                                                                      |
| G06F 17/20           | 1-Punkt Untergruppe | . Handling natural language data (speech analysis or synthesis G10L) [6]                                                                                                                                                                                                                                     |
| G06F 17/21           | 2-Punkt Untergruppe | . . Text processing (G06F 17/27 , G06F 17/28 take precedence; systems for composing machines B41B 27/00) [6]                                                                                                                                                                                                 |
| G06F 17/22           | 3-Punkt Untergruppe | . . . Manipulating or registering by use of codes, e.g. in sequence of text characters [6]                                                                                                                                                                                                                   |
| G06F 17/24           | 3-Punkt Untergruppe | . . . Editing, e.g. insert/delete [6]                                                                                                                                                                                                                                                                        |
| G06F 17/25           | 3-Punkt Untergruppe | . . . Automatic justification [6]                                                                                                                                                                                                                                                                            |
| G06F 17/26           | 3-Punkt Untergruppe | . . . Automatic hyphenation [6]                                                                                                                                                                                                                                                                              |
| G06F 17/27           | 2-Punkt Untergruppe | . . Automatic analysis, e.g. parsing, orthograph correction [6]                                                                                                                                                                                                                                              |
| G06F 17/28           | 2-Punkt Untergruppe | . . Processing or translating of natural language (G06F 17/27 takes precedence) [6]                                                                                                                                                                                                                          |
| G06F 17/30           | 1-Punkt Untergruppe | . Information retrieval; Database structures therefor [6]                                                                                                                                                                                                                                                    |
| G06F 17/40           | 1-Punkt Untergruppe | . Data acquisition and logging (for input to computer G06F 3/00) [6]                                                                                                                                                                                                                                         |
| G06F 17/50           | 1-Punkt Untergruppe | . Computer-aided design [6]                                                                                                                                                                                                                                                                                  |
| G06F 17/60           | 1-Punkt Untergruppe | . Administrative, commercial, managerial, supervisory or forecasting purposes (electronic cash registers other than digital data processing aspects thereof G07G 1/12) [6]                                                                                                                                   |
| <b>G06F 19/00</b>    | <b>Hauptgruppe</b>  | <b>Digital computing or data processing equipment or methods, specially adapted for specific applications (G06F 17/00 takes precedence) [6]</b><br><b><u>Indexing scheme associated with subgroup G06F 1/02 , relating to the type of function generated. The indexing codes should be unlinked. [5]</u></b> |
| <b>G06F 101/00</b>   | <b>Hauptgruppe</b>  | <b>Type of function generated [5]</b>                                                                                                                                                                                                                                                                        |
| G06F 101/02          | 1-Punkt Untergruppe | . Linear multivariable functions, i.e. sum of products [5]                                                                                                                                                                                                                                                   |
| G06F 101/04          | 1-Punkt Untergruppe | . Trigonometric functions [5]                                                                                                                                                                                                                                                                                |
| G06F 101/06          | 1-Punkt Untergruppe | . Co-ordinate transformations [5]                                                                                                                                                                                                                                                                            |
| G06F 101/08          | 1-Punkt Untergruppe | . Powers or roots [5]                                                                                                                                                                                                                                                                                        |
| G06F 101/10          | 1-Punkt Untergruppe | . Logarithmic or exponential functions [5]                                                                                                                                                                                                                                                                   |
| G06F 101/12          | 1-Punkt Untergruppe | . Reciprocal functions [5]                                                                                                                                                                                                                                                                                   |



| Symbol                                                                                                                                                                                                  | Typ                 | Titel                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------|
| G06F 101/14                                                                                                                                                                                             | 1-Punkt Untergruppe | . Probability distribution functions [5]                                                      |
| G06F 101/16                                                                                                                                                                                             | 1-Punkt Untergruppe | . PCM companding functions [5]                                                                |
| <b><u>Indexing scheme associated with groups G06F 17/00 and G06F 19/00 , relating to functional or application aspects of data processing equipment. The indexing codes should be unlinked. [6]</u></b> |                     |                                                                                               |
| <b>G06F 151/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For invoicing [6]</b>                                                                      |
| <b>G06F 153/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For inventory purposes; For order filling [6]</b>                                          |
| G06F 153/02                                                                                                                                                                                             | 1-Punkt Untergruppe | . For seat reservation [6]                                                                    |
| <b>G06F 155/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For betting on the outcome of an event, e.g. a race, an election; For totalisation [6]</b> |
| <b>G06F 157/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For bank or analogous accounting; For calculating earned income [6]</b>                    |
| <b>G06F 159/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For medical or biological purposes [6]</b>                                                 |
| <b>G06F 161/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For game playing [6]</b>                                                                   |
| <b>G06F 163/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For traffic control [6]</b>                                                                |
| <b>G06F 165/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For guiding a vehicle, missile or the like along a course, e.g. carried on vehicle [6]</b> |
| <b>G06F 167/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For nuclear physics or engineering, e.g. radiation-hardened [6]</b>                        |
| <b>G06F 169/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For meteorology [6]</b>                                                                    |
| <b>G06F 171/00</b>                                                                                                                                                                                      | <b>Hauptgruppe</b>  | <b>For gun laying; For bomb aiming [6]</b>                                                    |