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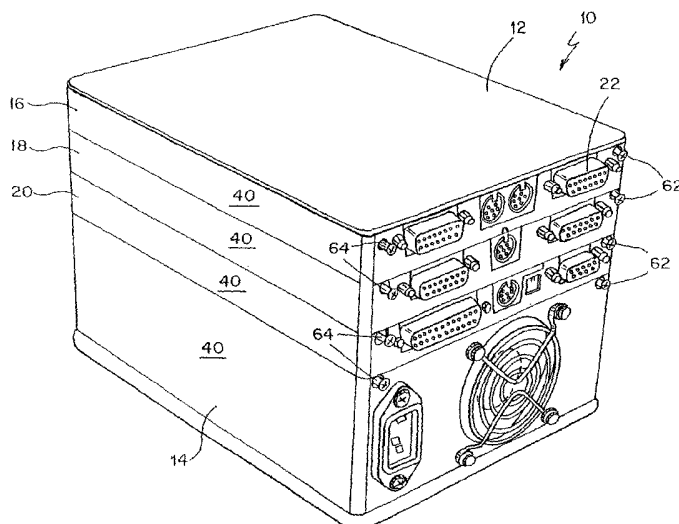
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(54) Title: VERTICALLY STACKED CONTROL UNIT



(57) Abstract: A control system (10) is built with functional modules expandable system, usually containing electronic circuit boards (24). The packaging of the modules allow a variable number of modules to be vertically stacked together to form a variably sized electronic control system. There is a module having a housing which engages the housing of an abutting module in a physically locked relationship, based upon four locking elements. There are modular units (16, 18, 20) which can be joined vertically by having two interlocking control units in the front of each module and two interlocking control units in the back of each module. Placed above the uppermost intermediate module is a top module (12) for the control unit. Placed below the lowermost intermediate module is a bottom module (14) for the control unit.



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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H05K 5/00; G06F 1/16 US CL : 312/108, 111; 361/683 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 312/108, 111; 361/683; 312/223.1, 223.2; 361/683, 685, 724-729, 732, 735; 206/504, 509, 512 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A, P	US 6,327,152 B1 (SAYE) 04 DECEMBER 2001 (04.12.2001), See entire document.	1-17
A	US 5,913,926 A (ANDERSON ET AL) 22 JUNE 1999 (22.06.1999), See entire document.	1-17
A	US 5,645,434 A (LEUNG) 08 JULY 1997 (08.07.1997), See entire document.	1-17
A	US 5,544,969 A (AMMON ET AL) 13 AUGUST 1996 (13.08.1996), See entire document.	1-17
☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.		
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"P" document published prior to the international filing date but later than the priority date claimed		
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5,131,272 A (MINEI ET AL) 21 JULY 1992 (21.07.1992), See entire document.	1-17
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