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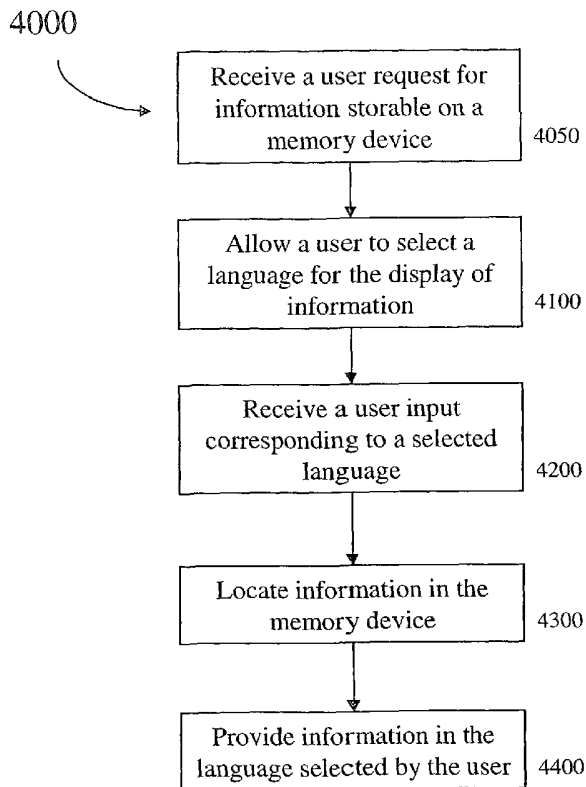
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10/685,819 15 October 2003 (15.10.2003) US
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— with international search report

[Continued on next page]

(54) Title: METHODS AND STRUCTURES FOR UTILIZING A MEMORY DEVICE FOR A PLC



(57) Abstract: Certain exemplary embodiments can provide a method for utilizing a memory cartridge connected to a PLC, the memory cartridge comprising a plurality of memory segments. The method can comprise a plurality of activities comprising: providing the memory cartridge, the memory cartridge housing a memory module, and providing to the memory cartridge a project file. The project file can comprise a user program, a recipe comprising a plurality of input values, each input value from the plurality of input values corresponding to a process variable, and a structure of a data log file stored separately from the data log file.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

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31 March 2005

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 G05B19/05 G05B19/05				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) IPC 7 G05B				
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 practical, search terms used) EPO-Internal, WPI Data, PAJ				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	ANONYMOUS: "Simatic C7 - Control Systems C7 - PLC and OP in one device - Product Brief" INTERNET PUBLICATION, 'Online! 30 September 2002 (2002-09-30), XP002314619 Retrieved from the Internet: URL: <a href="http://www.siemens-industry.co.uk/main/extra/literature/files/Automation%20Brochures/SIMATIC%20C7/6ZB5310-0FM02-0BA8%20%20SIMATIC%20C7%20%20Control%20Systems%20C7%20-PLC%20and%20OP%20in%20one%20device.pdf">http://www.siemens-industry.co.uk/main/extra/literature/files/Automation%20Brochures/SIMATIC%20C7/6ZB5310-0FM02-0BA8%20%20SIMATIC%20C7%20%20Control%20Systems%20C7%20-PLC%20and%20OP%20in%20one%20device.pdf</a> 'retrieved on 2005-01-18! the whole document	1-20		
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.				
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° Special categories of cited documents :				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;">                     *A* document defining the general state of the art which is not considered to be of particular relevance                      *E* earlier document but published on or after the international filing date                      *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)                      *O* document referring to an oral disclosure, use, exhibition or other means                      *P* document published prior to the international filing date but later than the priority date claimed                 </td> <td style="width: 50%; vertical-align: top; padding: 5px;">                     *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention                      *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone                      *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.                      *&amp;* document member of the same patent family                 </td> </tr> </table>			*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family			
Date of the actual completion of the international search	Date of mailing of the international search report			
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Prokopiou, P			

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>ANONYMOUS: "SIMATIC HMI ProTool - How to configure graphics-based units - User Manual - Release 12/01" 'Online!                      19 February 2002 (2002-02-19), SIEMENS , XP002314620                      Retrieved from the Internet:                      URL:http://support.automation.siemens.com/&gt;                      &gt;                      'retrieved on 2005-01-18!                      Part number of the manual:                      6AV6594-1BA06-0AB0                      pages 1-1 - pages 1-2                      Sections 4.2-4.4, 5.9, 5.12, 5.13, 6.1                      pages 5-89 - pages 5-90                      pages 5-45,A-1                      pages 5-48,6-2                      pages 5-124</p>	1-20
A	<p>-----                      US 5 659 705 A (MCNUTT ET AL)                      19 August 1997 (1997-08-19)                      column 4, line 57 - line 67                      column 7, line 7 - line 12                      column 8, line 50 - line 66                      column 9, line 23 - line 65                      column 10, line 17 - line 40                      claims 1-4</p>	5,11
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