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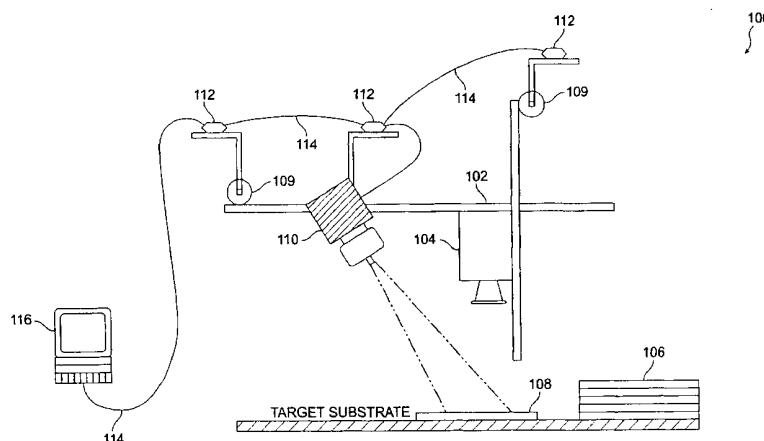
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(54) Title: SYSTEM CONFIGURATION EDITOR WITH AN ICONIC FUNCTION SEQUENCER



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(57) Abstract: A graphical user interface (GUI) includes a system configuration editor for configuring a machine control system and an iconic function sequencer for ordering the execution of functional processes within the machine control system. The system configuration editor graphically reflects how logical functions are connected to electrical functions within the physical machine system and permits a user to set up and alter those connections. Logical function blocks include one or more software program objects that perform logical functions such as dispensing a component in a pick and place machine control system. The system configuration editor permits configuring a logical function to use various electrical functions in performing its programmed function. For example, a user can electrically configure a logical dispensing function to turn on motor #3 and access output #2 from module #4 through graphical connections made between logical and electrical functions using the visual configuration editor. After the logical function blocks are configured in the machine control system, the iconic function sequencer permits a user to select the function blocks as tools and build a graphical representation of the sequence in which they will be performed. A user can click on and grab copies of each tool and connect compatible tools together in a building area on the screen, thus determining which logical functions will be performed and in what order they will be performed.

# INTERNATIONAL SEARCH REPORT

National Application No

PCT/US 01/07226

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G05B19/042 G05B19/05

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)

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

## 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	HALPERT D E: "OBJECT ORIENTED PROGRAMMING FOR MOTION CONTROL" PROCEEDINGS OF THE ANNUAL CONFERENCE OF ELECTRICAL ENGINEERING PROBLEMS IN THE RUBBER AND PLASTICS INDUSTRIES. AKRON, APR. 15 - 16, 1991, NEW YORK, IEEE, US, vol. CONF. 43, 15 April 1991 (1991-04-15), pages 58-68, XP000299128 ISBN: 0-7803-0069-6 page 58 -page 68 ---	4-6
A	US 5 812 394 A (LEWIS ROBERT W ET AL) 22 September 1998 (1998-09-22) the whole document --- -/--	1-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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\*&\* document member of the same patent family

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International Application No

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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.
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/07226

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