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EXHIBIT C

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US006725402B1

(12) United States Patent

Coss, Jr. et al.

(54) METHOD AND APPARATUS FOR FAULT DETECTION OF A PROCESSING TOOL AND CONTROL THEREOF USING AN ADVANCED PROCESS CONTROL (APC) FRAMEWORK

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 556 days.
- (21) Appl. No.: 09/629,073
- (22) Filed: Jul. 31, 2000
- (51) Int. Cl.⁷ G06F 11/00
- (52)
- 714/742 Field of Search 714/4, 48, 742; (58)700/109, 139, 95; 438/14

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Primary Examiner-Scott Baderman

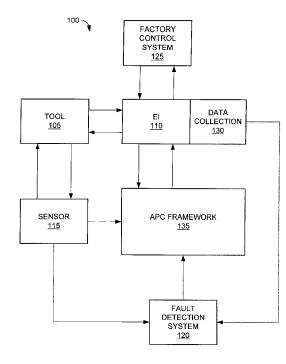
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ABSTRACT

A method and apparatus for providing fault detection in an Advanced Process Control (APC) framework. A first interface receives operational state data of a processing tool related to the manufacture of a processing piece. The state data is sent from the first interface to a fault detection unit. A fault detection unit determines if a fault condition exists with the processing tool based upon the state data. A predetermined action is performed on the processing tool in response to the presence of a fault condition. In accordance with one embodiment, the predetermined action is to shutdown the processing tool so as to prevent further production of faulty wafers.

17 Claims, 5 Drawing Sheets



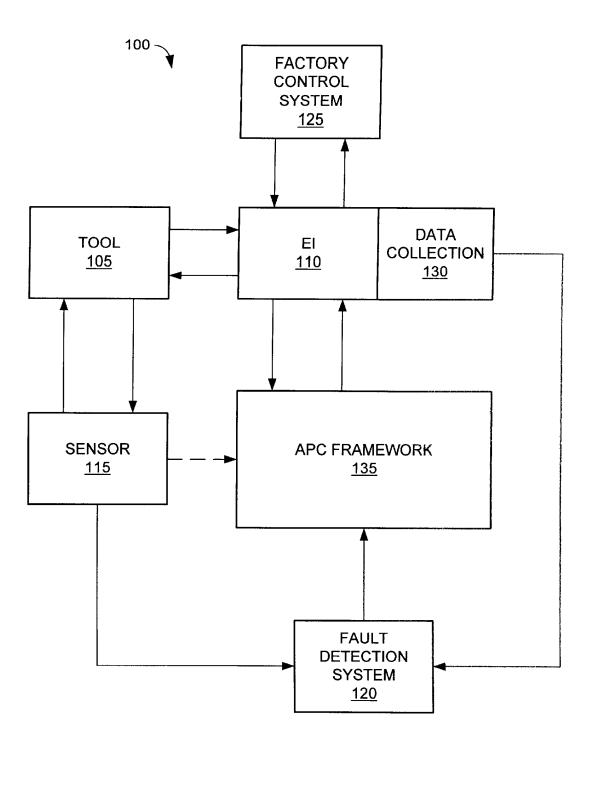
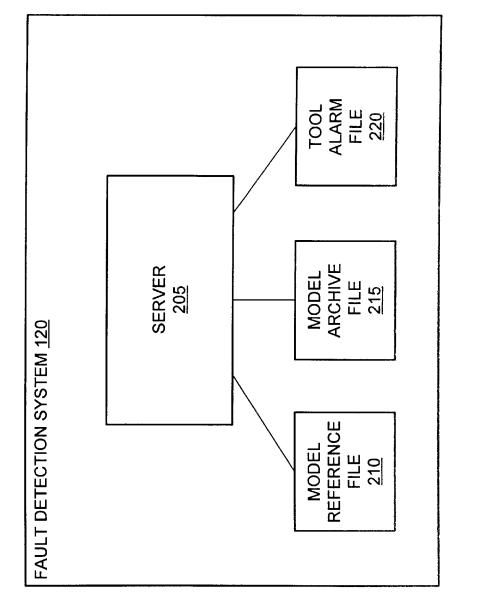


Figure 1





Α

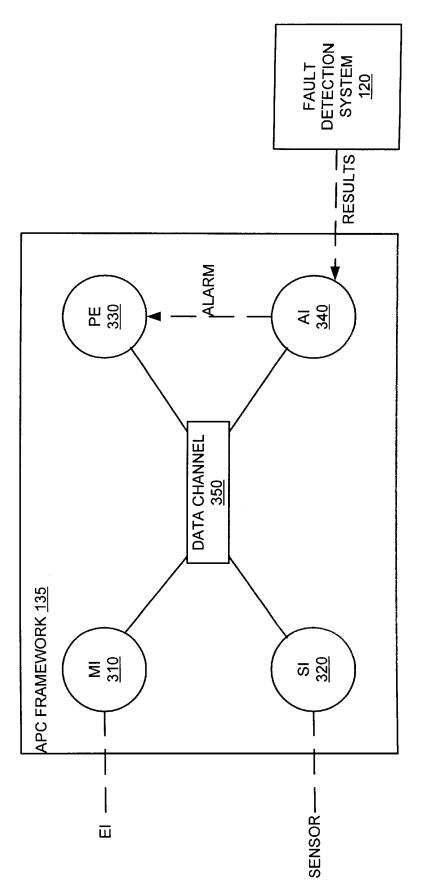


Figure 3

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