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Funk et al.

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(54) **METHOD AND APPARATUS FOR THE MONITORING AND CONTROL OF A SEMICONDUCTOR MANUFACTURING PROCESS**

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(51) **Int. Cl.**
G06F 19/00 (2006.01)

(52) **U.S. Cl.** **700/121**; 710/96

(58) **Field of Classification Search** 700/121, 700/96, 32, 95, 117
See application file for complete search history.

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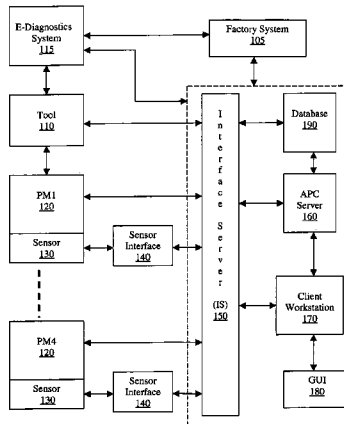
(57) **ABSTRACT**

An Advanced Process Control (APC) system including Graphical User Interfaces (GUIs) is presented for monitoring and controlling a semiconductor manufacturing process that is performed by a semiconductor processing system. The semiconductor processing system includes a number of processing tools, a number of processing modules (chambers), and a number of sensors, and the APC system comprises an APC server, database, interface server, client workstation, and GUI component. The GUI is web-based and is viewable by a user using a web browser.

33 Claims, 12 Drawing Sheets

FIG. 1

FIG. 2

In Memory
Data Tables

Data
Acquisition

Messaging
System

Relational
Database

Events

Run Time

Off-line

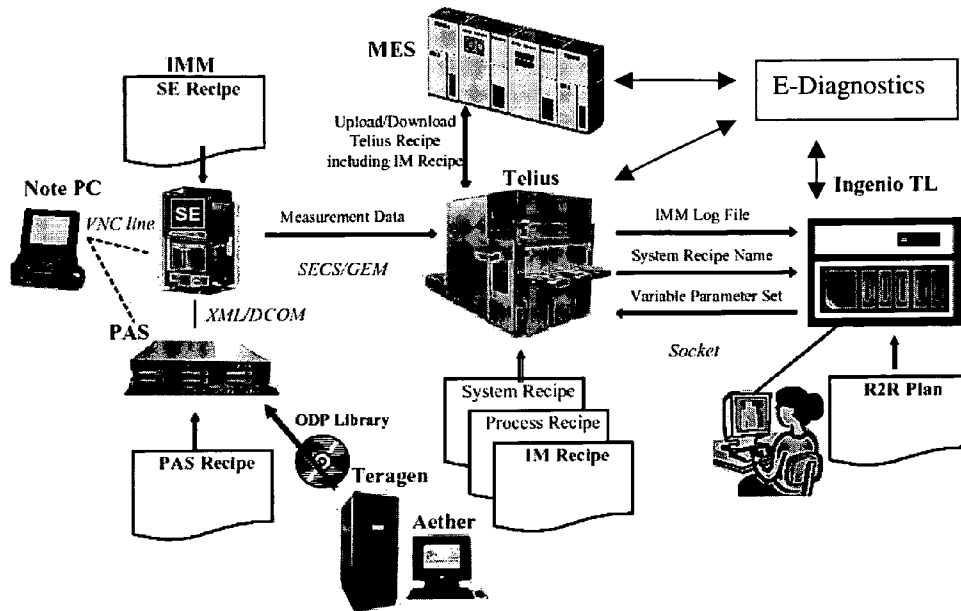Alarms

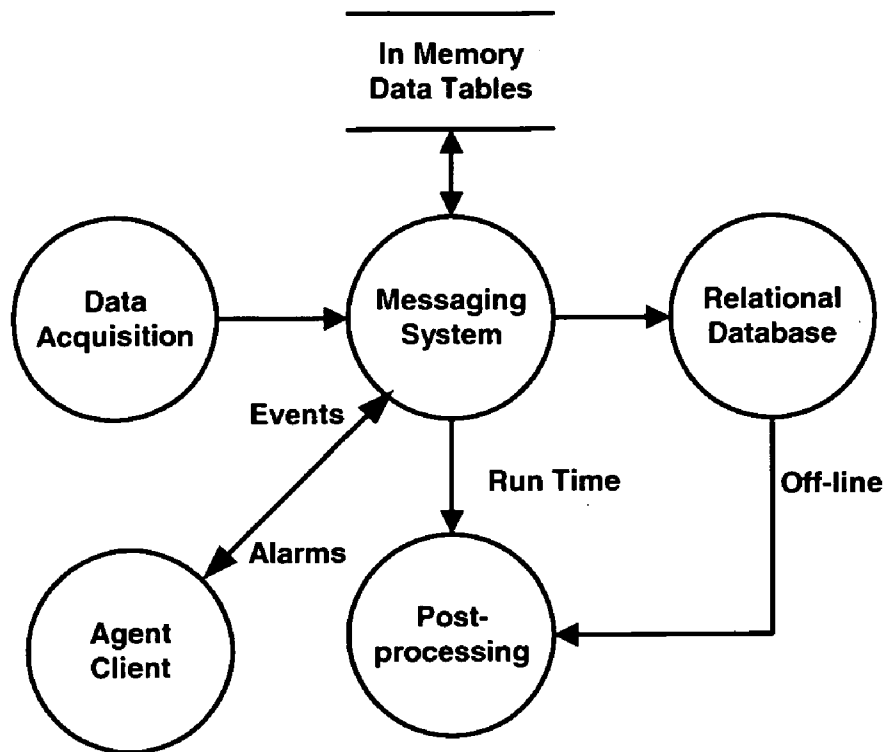Agent
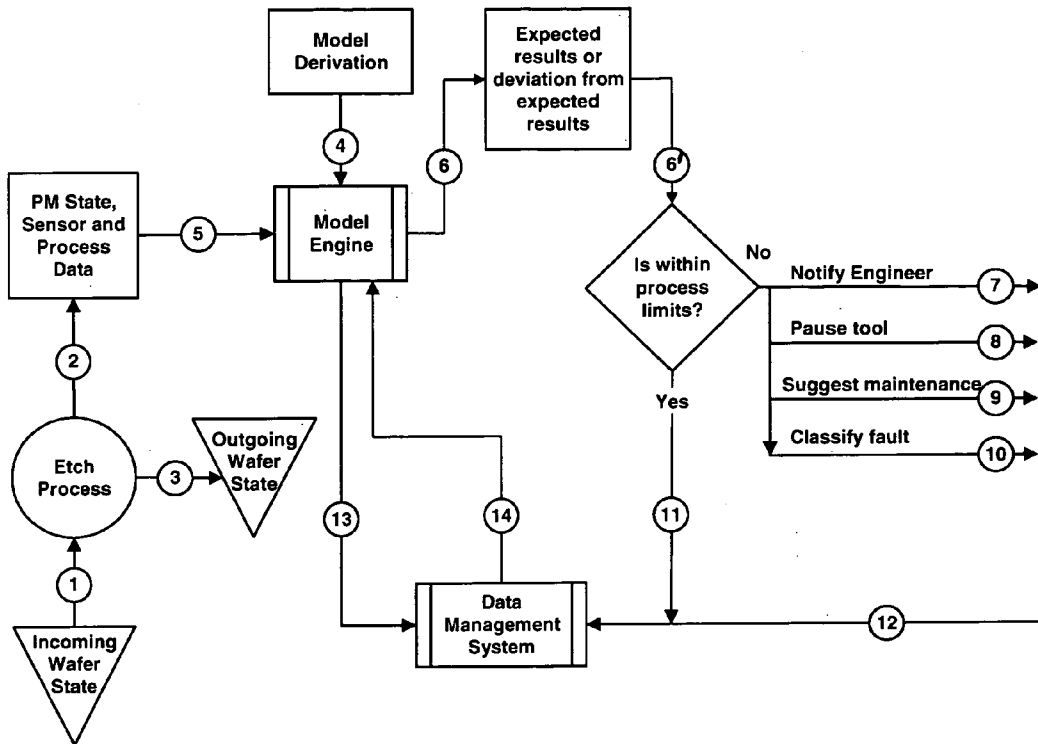Client

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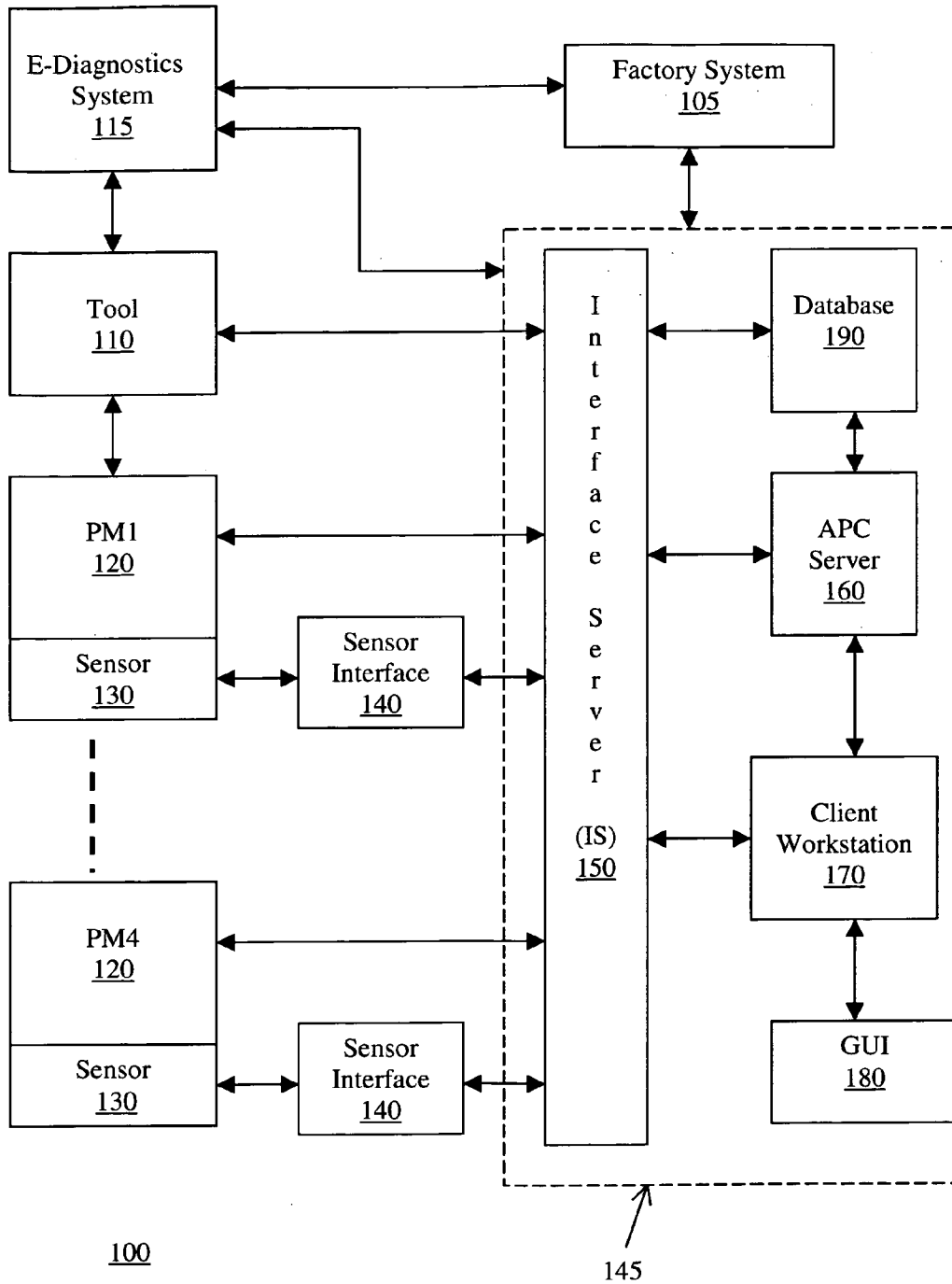
FIG. 3

FIG. 4

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