# EXHIBIT 25

**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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|---|---|
| In re Application of:<br>GUSTAVO MATA ET AL. | Group Art Unit: 2125 |
| Serial No.: 10/135,145 | Examiner: JAYPRAKASH N. GANDHI |
| Filed: 4/30/2002 | Atty. Dkt. No.: 2000.079600/JAP |
| For: AGENT REACTIVE SCHEDULING IN AN AUTOMATED MANUFACTURING ENVIRONMENT | CUSTOMER NO. 23720 |

# APPEAL BRIEF

**MAILSTOP APPEAL BRIEF-Patents**
Commissioner for Patents
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Alexandria, VA 22313-1450

Sir:

| CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8 | |
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| DATE OF DEPOSIT: | November 22, 2004 |

I hereby certify that this paper or fee is being deposited with the United States Postal Service with sufficient postage as "FIRST CLASS MAIL" addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Suzanne Stephens
Signature

On September 14, 2004, Appellants filed a Notice of Appeal in response to a Paper No. 13 dated June 15, 2004, issued in connection with the above-identified application, which was received and stamped by the USPTO Mailroom on June 18, 2004. In support of their appeal, Appellants hereby submit an original and two copies of this Appeal Brief to the Board of Patent Appeals and Interferences in response to the Paper No. 13 dated June 15, 2004 ("Paper No. 13"). The fee for filing this Appeal Brief is $340, and is authorized to be charged to Advanced Micro Devices, Inc. Deposit Account No. 01-0365/TT4739.

Also, a request for a one month extension of time to respond is included herewith. Enclosed is a check in the amount of $110 in payment for the extension. This one month extension will bring the due date to December 14, 2004. If the check is inadvertently omitted, or should any additional fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason relating to

the enclosed material, or should an overpayment be included herein, the Director is authorized to deduct or credit said fees from or to Williams, Morgan & Amerson, P.C. Deposit Account No. 50-0786/2000.079600/JAP.

## I. REAL PARTY IN INTEREST

Advanced Micro Devices, Inc., the assignee hereof, is the real party in interest.

## II. RELATED APPEALS AND INTERFERENCES

There are no related appeals or interferences of which Applicant, Applicant's legal representative, or the Assignee is aware that will directly affect or be directly affected by or have a bearing on the decision in this appeal.

## III. STATUS OF THE CLAIMS

Claims 1-53 are pending in the case, each having been originally filed. The "final" Office Action ("Paper No. 13") rejected each of claims 1-53 as anticipated under 35 U.S.C. § 102 (b) by U.S. Letters Patent 5,369,570 ("Parad"). Applicants traverse each of the rejections, and appeals each of them herein.

## IV. STATUS OF AMENDMENTS

There were no amendments submitted after the "final" Office Action.

## V. SUMMARY OF THE INVENTION

The invention, in its various aspects and embodiments, is a method and apparatus for scheduling in an automated manufacturing environment. One such automated manufacturing environment is the embodiment of **FIG. 1**, reproduced below. The illustrated portion of the process flow 100 includes two stations 105, each station 105 including a computing device 110 communicating with a process tool 115. The stations 105 communicate with one another over communications links 120. In the illustrated embodiment, the computing devices 110 and the communications links 120 comprise a portion of a larger computing system, *e.g.*, a network 125. The process tools 115 in **FIG. 1** are processing lots 130 of wafers 135 that will eventually become integrated circuit devices.

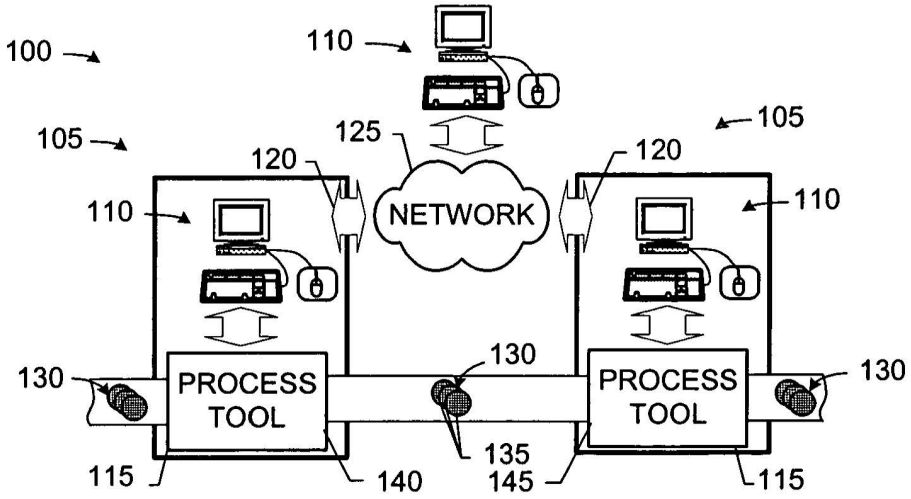


FIG. 1

Each computing device 110 includes, in the illustrated embodiment, a software agent 265, shown in **FIG. 2**, residing in the storage 210, also shown in **FIG. 2**. Note that the software agents 265 may reside in the process flow 100 in places other than the computing devices 110. The software agents 265 each represent some "manufacturing domain entity," *e.g.*, a lot 130, a process tool 115, a resource, a PM, or a Qual. The software agents 265, collectively, are

responsible for efficiently scheduling and controlling the lots 130 of wafers 135 through the fabrication process.

In one particular embodiment, a method in accordance with the present invention detects an occurrence of a predetermined event in a process flow, *e.g.*, the process flow 100 in **FIG. 1**. More particularly, the software agents 265 react to different events that occur within the process flow 100. These events are identified beforehand, *i.e.*, are "predetermined," so that appropriate activities in reaction to those events can be defined. The appropriate actions will depend on a number of factors including not only the type of manufacturing domain entity involved, but also the type of event that is involved. The predetermined events are categorized, in the illustrated embodiment, as one of three types: appointment state change, a factory state change, or an alarm event. The reactive scheduling performed upon the occurrence of any particular event will depend on the nature of the event and, to some degree, upon the particular implementation.

Next, the method notifies a software scheduling agent, *e.g.*, a scheduling agent 265 in **FIG. 2**, of the occurrence. Note that this implies a knowledge that such events are occurring within the process flow 100. To this end, in the illustrated embodiment, the software agents 265 respond to additional software components, not shown, known as "publishers" (or, "notifiers") and "subscribers." Agents create listeners which subscribe to one or more notifiers. Notifiers "publish" events to their subscribing listeners when changes occur within the factory. Listeners, in turn, call their subscribing software agent 265. Through a network of these types of publishers and subscribers, the scheduling agents 265 can be kept apprised of events occurring in the process flow 100.

The method then reactively schedules an action from the software scheduling agent, *e.g.*, the software scheduling agent 265, responsive to the detection of the predetermined event.

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