operating time register, and audible "rate fault" alarm. In that patent, accuracy is achieved by using a timing circuit coupled with a mechanical bellows.

[0012] U.S. Pat. No. 6,216,548 illustrates a control system flow chart for an air sampling device for use in a controlled environment. In particular, the patent discloses a controller logic that involves turning on a pump, checking pressure, monitoring sampling time, drawing air into the sampler, shutting off the pump, and checking for leaks in the lines. The patent also teaches using a purge system for purging the lines and associated air particulate sampler using a purge gas such as nitrogen gas. In that patent, air sampling only occurs at one location (e.g., a processing chamber for semiconductor devices).

SUMMARY OF THE INVENTION

[0013] In accordance with an aspect of the present invention there is provided a system for tracking one or more subjects, the system comprising:

one or more subjects configured to collect air contaminants, each of the one or more subjects comprising an identification tag encoded with identification information identifying the each subject;

an identification reader configured to decode the identification information encoded within the identification tag of a scanned one of the one or more identification tags;

a computer configured to receive and store the decoded identification information from the identification reader.

[0013A] The present disclosure further provides a system for tracking one or more subjects. The system includes one or more subjects configured to collect air contaminants. Each of the one or more subjects includes an identification tag encoded with identification information identifying the each subject and other information regarding the each subject. The system further includes an identification reader configured to decode the identification information encoded within the identification tag of a scanned one of the one or more identification tags. A computer receives and stores the decoded identification information from the identification reader in a record in a database. The barcode scanner may be further configured to transmit

location information identifying the location of the scanned one of the one or more identification tags. The location information is logged by the computer with the decoded identification information.

[0014] In accordance with another aspect of the present invention, there is provided a system for sampling air in a controlled environment, the system comprising:

one or more air sampling devices disposed in a controlled environment, the one or more air sampling devices each comprising a first identification reader;

a vacuum source;

a controller connected to the vacuum source configured to be in separate air flow communication with the one or more air sampling devices via one or more respective vacuum air tubes, the controller comprising a manifold configured to separately control an actual rate of air flow from the one or more air sampling devices to the vacuum source via each of the one or more respective vacuum air tubes to selectively direct air flow from each of the one or more respective vacuum air tubes to the vacuum source;

one or more subjects configured to collect air contaminants in the controlled environment, each of the one or more subjects comprising an identification tag encoded with identification information identifying the each subject;

a mobile identification reader configured to decode the identification information encoded within the identification tag of a scanned one of the one or more identification tags; and a computer configured to receive and store the decoded identification information from the identification reader.

[0014A] Also disclosed herein is a system for sampling air at a plurality of locations in a controlled environment. The system includes one or more air sampling devices, a vacuum source, a controller connected to the vacuum source, one or more subjects configured to collect air contaminants in the controlled environment, an identification reader, and a computer configured to receive data from the