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(71) Applicant: AEGIS ANALYTICAL CORPORATION [US/US]; 1370 Miners Drive, Suite 106, Lafayette, CO 80026 (US).

(72) Inventors: NEWAY, Justin, O.; 3197 Nelson Road, Longmont, CO 80503 (US). DURFEE, Steven, L.; 1182 Country Ridge Drive, South Jordan, UT 84095 (US). JAHN, Gretchen, L.; 13141 Emerson Street, Thornton, CO 80241 (US).

(74) Agents: HANCOCK, Earl, C. et al.; Holland & Hart L.L.P., Suite 3200, 555 17th Street, P.O. Box 8749, Denver, CO 80201-8749 (US).

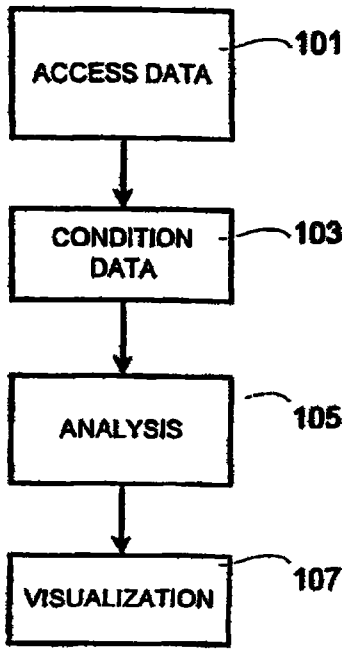
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(54) Title: SYSTEM FOR ANALYZING AND IMPROVING PHARMACEUTICAL AND OTHER CAPITAL-INTENSIVE MANUFACTURING PROCESSES



(57) Abstract: A method for displaying a visual process signature for ready visual recognition and communication of complex manufacturing process information. A complete process data solution includes accessing data (101), conditioning the accessed data (103), analysis (105), and visualization of analysis results (107) are performed to analyze retrospectively the manufacturing process data, identify trends that affect outcomes, and demonstrate product quality and process capability. Process data may be stored in a plurality of data stores, each data store holding in a plurality of records containing process data, each data record associated with at least one process component. A proxy visual database is created from copies of records selected from the data stores. Statistical analysis operations are applied to the selected records within the proxy virtual database to identify process components or combinations of process components having a significant effect on characteristics of a product produced as well as the magnitude of that effect and displayed and the statistical analysis operations are selected and displayed in a static or animated three dimensional representation shown on a three dimensional display.

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