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(54) Title: PRODUCTION ANALYSIS MODELING FOR PRODUCT QUALITY DETECTION

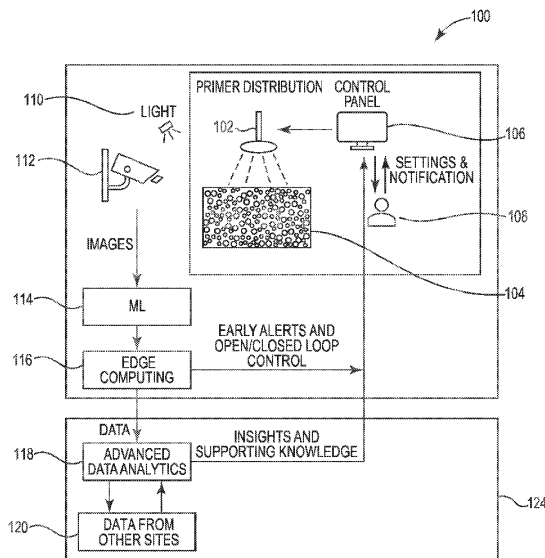


Fig. 1

(57) **Abstract:** In at least one example, a method for production analysis modeling for product quality detection includes receiving a review request for a product that includes an identified failure, identifying production analysis data associated with a production process for the product, the production analysis data includes data captured during a production of the product, providing the production analysis data for the product to a machine learning model for producing the product to compare the production analysis data to designated data ranges for the product, determining data from the production analysis data that are outside of the designated range identified by the machine learning model, and identifying a cause of the identified failure during the production of the product based on the determined data.

[Continued on next page]

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