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- (54) **Title:** MACHINE LEARNING-BASED EVALUATION OF DEVICE LABEL PLACEMENT

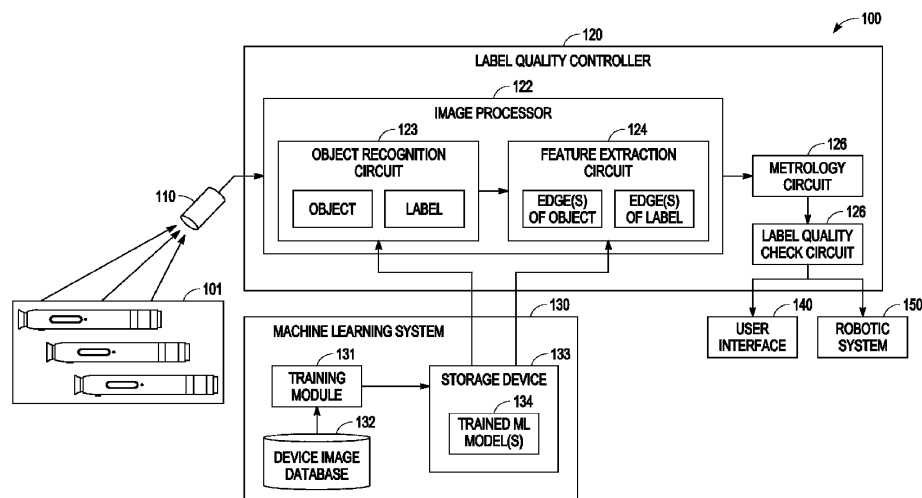


FIG. 1

(57) **Abstract:** Systems and methods for machine vision-based metrology in automated label placement inspection and quality control check are disclosed. An exemplary system can evaluate label placement on an object by applying one or more trained machine learning (ML) models to an image of the object. The ML models are trained to recognize the object and a label on the object. Morphological features such as edges of the object and of the label are recognized using the trained ML modes, and a spatial metric can be determined using the morphological features. Based on the spatial metric, a label placement indicator can be generated to indicate that the label passes the quality control check if the label is placed within predetermined, tolerances on the object.

[Continued on next page]

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