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(54) **Title:** METHOD AND SYSTEM FOR OPTICAL FLOW GUIDED MULTIPLE-VIEW DEFECTS INFORMATION FUSION

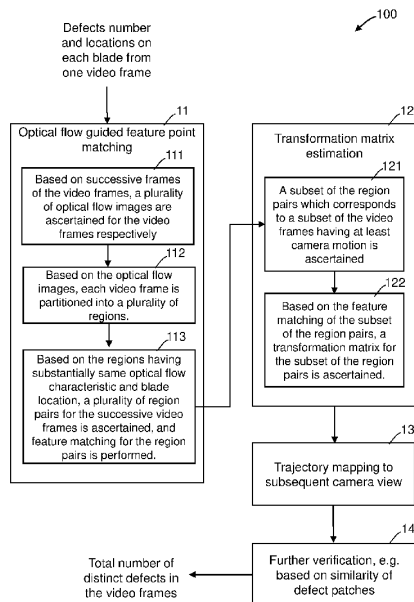


Figure 1

(57) **Abstract:** This disclosure relates to method and system for inspection of rotational components based on video frames having different camera views of defects on rotational components. Using optical flow to ascertain motion vectors of pixels of the video frames, the video frames are partitioned based on motion vectors. The partitioned regions are paired with corresponding regions in a subsequent video frame, and their features are matched. For video frames having at least camera motion, a transformation matrix is ascertained which is applied to map defect trajectories of each camera view to a subsequent camera view.

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