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(54) **Title:** METHOD AND SYSTEM FOR AUTOMATIC DEFECT DETECTION, COUNTING, AND LOCALISATION FROM VIDEO SEQUENCES

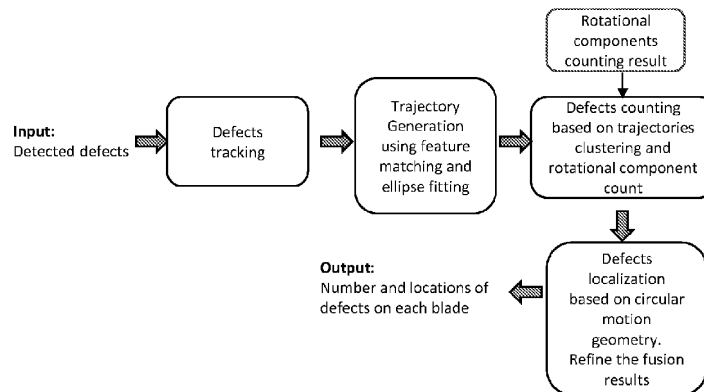


Figure 1A

(57) **Abstract:** This disclosure relates to method and system for inspection of rotational components based on video frames of the rotational components in motion. Based on the property of projective single axis motion, motion trajectories of defects on the rotational components are modeled in a conic pattern. The defects are clustered according to their spatial information around a rotation axis of the rotational components to ascertain distinct defects. Undetected defects may be recovered by rotating their previous locations along their trajectory conics by a predetermined rotation angle. Based on the distinct defects, including the recovered defect, a modified video frame which includes an identification of the distinct defects, including the recovered defect, may be generated.

[Continued on next page]

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