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(71) Applicant: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North Tower, Singapore 138632 (SG).

(72) Inventors: **LI, Yusha**; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). **CHENG, Jierong**; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG). **XIONG, Wei**; c/o PKM, Institute for Infocomm Research, 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632 (SG).

(74) Agent: **AMICA LAW LLC**; 77 Robinson Road, #22-01 Robinson 77, Singapore 068896 (SG).

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

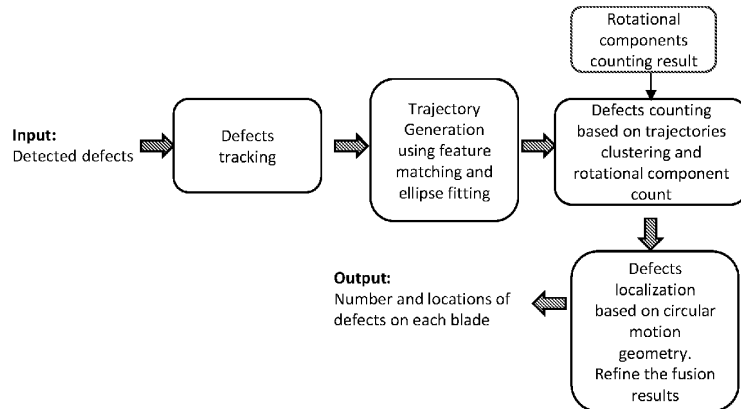


Figure 1A

(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.

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