APPARATUS AND METHOD FOR DETECTING BAD EDGE BEAD REMOVAL IN A SPIN-ON-GLASS COATER TOOL

Abstract

A solvent delivery system for an edge bead removal tool (EBR) that detects N_2 leaks in a solvent pressure tank that surrounds a solvent bottle. A solvent bottle is surrounded by a pressure tank. The solvent bottle contains the solvent used in the EBR tool. A N_2 gas supply is connected to the pressure tank and pressurizes the inside of the pressure tank with N_2 gas. A pressure sensor is connected to the pressure tank. The pressure sensor senses the N_2 pressure inside of the pressure tank. The system board notifies an operator when the pressure sensor detects an unsatisfactory N_2 pressure condition inside the pressure tank. The solvent bottle contains a solvent. A buffer solvent is in the solvent buffer tank. A solvent level sensor is on the solvent buffer tank. The solvent level sensor is connected to the interlock circuit. Wherein the system board notifies an operator when the solvent level sensor detects an unsatisfactory buffer solvent level in the solvent tank. A buffer solvent delivery line is connected from the solvent buffer tank to a nozzle over a substrate. The interlock circuit is connected to the system user board by a circuit to board line.

Fig. 1