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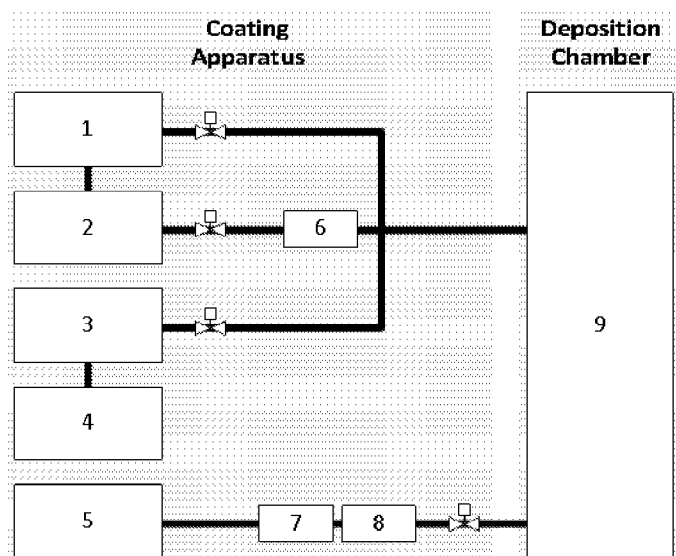


FIG. 1

(57) Abstract: A system and method for depositing a coating may comprise a coating chemical reactor, surface activation component, and a deposition component. A target surface may be prepared for deposition with the surface activation component. The coating chemical reactor may comprise a coating chemical dispenser and a coating chemical verifier that prepares the coating chemical for deposition. The coating chemical verifier may utilize an optical excitation source and at least one optical detector, wherein chemical substances are identified by unique signatures composed of binary code. The coating chemical may be received by the deposition component to depositing the coating chemical on the target surface.