

NOZZLE-INJECTOR FOR ARC PLASMA DEPOSITION APPARATUS

ABSTRACT OF THE DISCLOSURE

5 A nozzle-injector was designed and fabricated for plasma
deposition of thin-film coatings using a wall-stabilized arc torch as the
plasma generator. The design of the nozzle-injector controls the
injection, ionization, and reaction of the reagents, and these functions,
in turn, determine the coating deposition rate, coating area, coating
10 composition, and coating quality.

Figure 1

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