

Concept for aluminide coating hollow component with donor rod

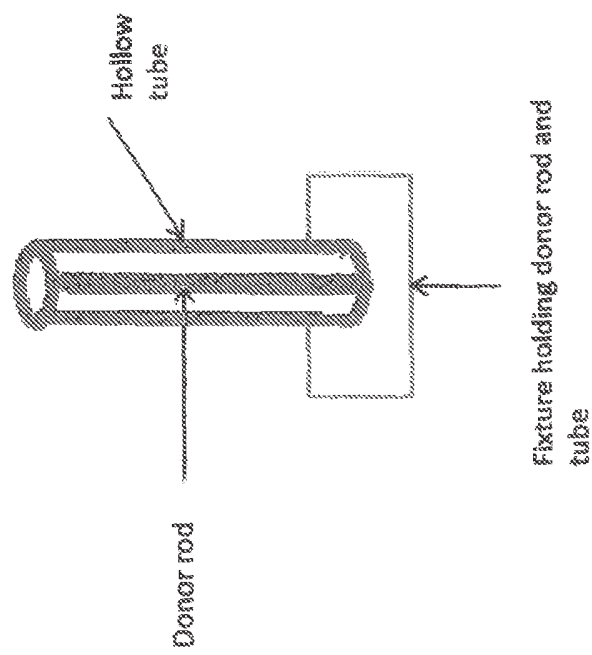


FIG. 1

Donor rod and fixture for hollow turbine vane

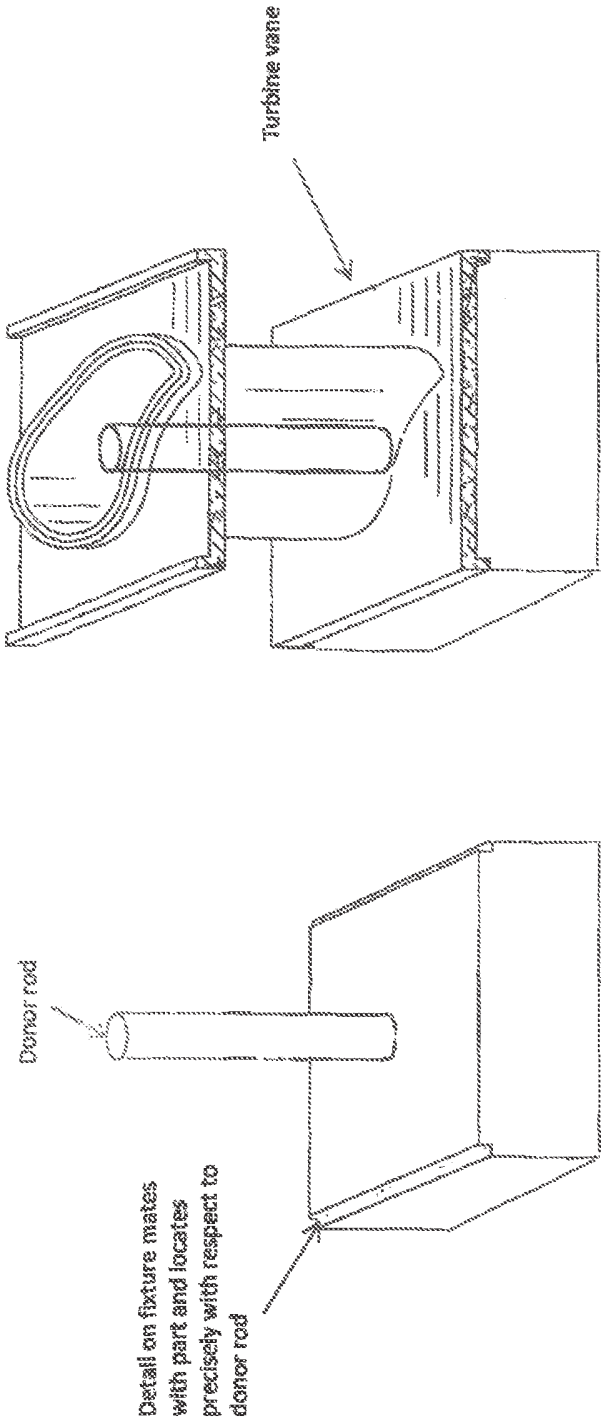


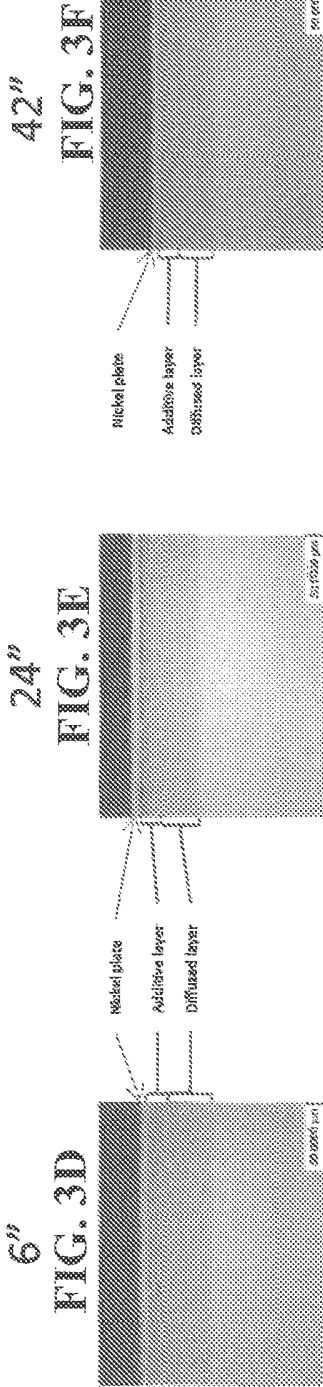
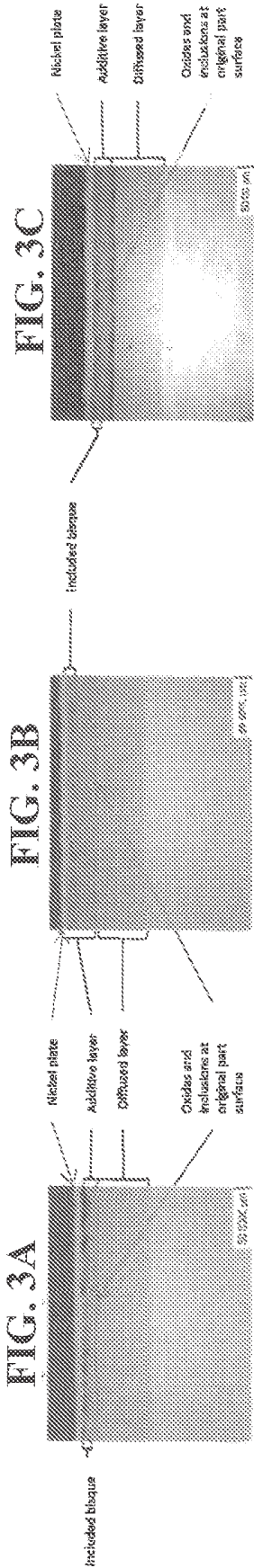
FIG. 2B

FIG. 2A

Fixture

Four foot length 2" dia SS304 tube

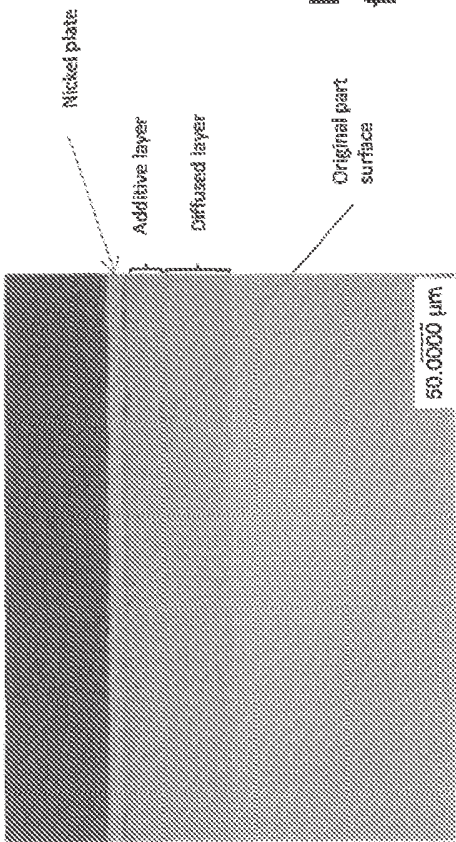
Slurry coated. After processing to remove bisque and scale.



As coated with donor rod

Four foot length 2" dia SS304 tube

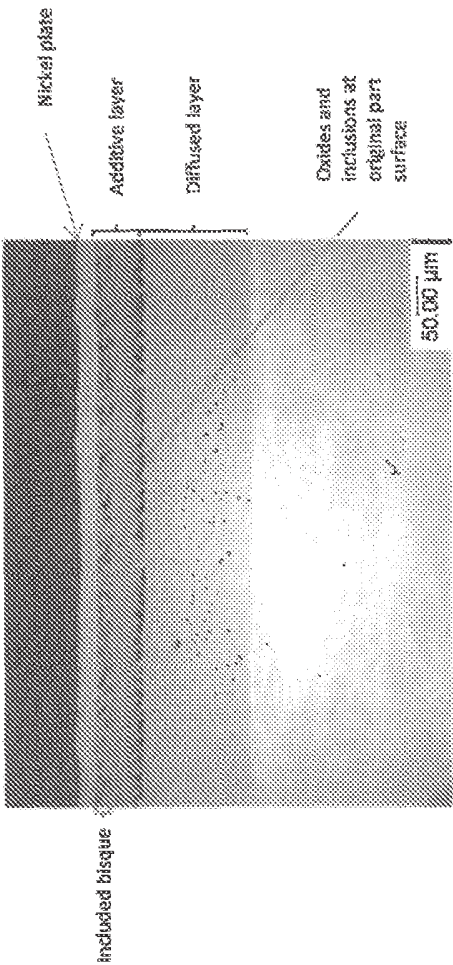
FIG. 4B



Donor rod coating is immediately out of furnace. No clean up operations.

Donor rod coating

FIG. 4A



Slurry coating has been through power wash to remove bisque, chemical neutralization, and mechanical polishing to remove rough scale.

Slurry coating

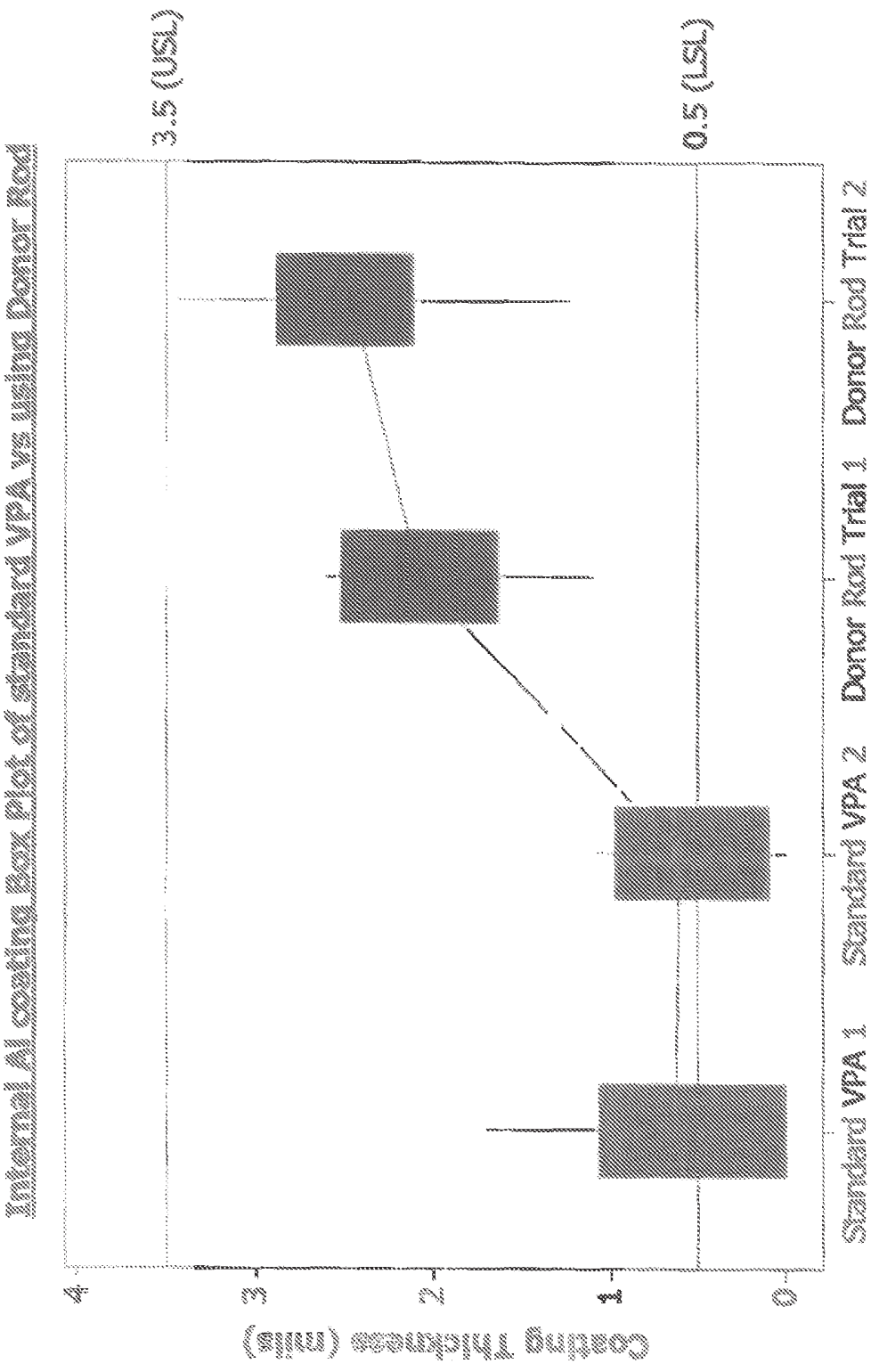


FIG. 2