

Title (en)
Plasma spray apparatus

Title (de)
Plasmasprühvorrichtung

Title (fr)
Appareil de pulvérisation à plasma

Publication
EP 1657322 B1 20131030 (EN)

Application
EP 05256848 A 20051104

Priority

- US 98204104 A 20041104
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Abstract (en)
[origin: EP1657322A2] A method and apparatus for plasma spray coating a portion of a workpiece (24), such as a gas turbine compressor blade, without masking any portions thereof. The apparatus includes a plasma apparatus with an anode (16), cathode (18), and an arc generator for generating an electric arc (20) between the anode (16) and cathode (18). An arc gas emitter injects inert gas through the electric arc (20). The electric arc (20) is operable for ionizing the gas to create a plasma gas stream (21). A powder injector nozzle extends through the anode (16) and injects powdered material (34) into the plasma stream (21) for transfer to the workpiece (24).

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