

ABSTRACT

SPRAY NOZZLE

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A spray nozzle 10 for a laser deposition apparatus, comprises an elongate nozzle aperture 16, a powder supply chamber 18 in fluid communication with the elongate nozzle aperture and upper and lower elongate gas apertures 26, 28 located above and
10 below the elongate nozzle aperture respectively and extending substantially parallel to the elongate nozzle aperture. In use the powder supply chamber supplies powder to the nozzle aperture under pressure so as to cause a wide powder stream to be ejected from the nozzle aperture and the upper and lower elongate apertures eject a wide gas stream above and below the wide powder stream. When used with a laser deposition
15 apparatus 10 a relatively wide coating of a substantially uniform thickness can be deposited.

Figure 1

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