

LAMINAR FLOW SHIELDING OF FLUID JETABSTRACT OF THE DISCLOSURE

A process and system for shielding a turbulent fluid stream, comprising emitting a laminar flow of a shielding gas transversely to the flow direction of the turbulent fluid stream preferably from a porous wall. The turbulent fluid stream may be hot and may contain a coating material. By projecting or directing the turbulent fluid stream at the surface of a substrate to be coated, the heated coating material is deposited on the surface of the substrate.