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KUROKI et al.(10) **Pub. No.: US 2022/0361313 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **LOW PRESSURE PLASMA SPRAYING****Publication Classification**(71) Applicant: **TOCALO CO., LTD.**, Kobe-shi,
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ABSTRACT

A low pressure plasma spraying method includes turning working gas into plasma by direct-current arc to generate a plasma jet while setting a plasma power source output to 2 to 10 kW in a pressure reducing vessel and feeding raw material powder having an average particle size of 1 to 10 μm into the plasma jet from feeding ports of a thermal spraying gun to form a thermal sprayed coating, which can suppress transformation of the raw material powder and form a dense coating.

