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(54) **Integrated fluidjet system for stripping, prepping and coating a part**

(57) A method of stripping, prepping and coating a surface comprises first stripping the existing coating from a surface, using continuous or pulsed fluid jet, followed by prepping the surface by the same fluid jet. The method also provides entraining particles into a fluid stream, if desired to generate a particle-entrained fluid stream that is directed at the surface to be stripped and prepped. The particles act as abrasive particles for prepping the surface to a prescribed surface roughness required for subsequent application of a coating to the surface. The method then entails coating the surface by electrically charging coating particles having the same chemical composition as the particles used to prep the surface. Finally, a charged-particle-entrained fluid stream is directed at high speed at the charged surface to thereby coat the surface. The particles form both mechanical and electronic bonds with the surface.

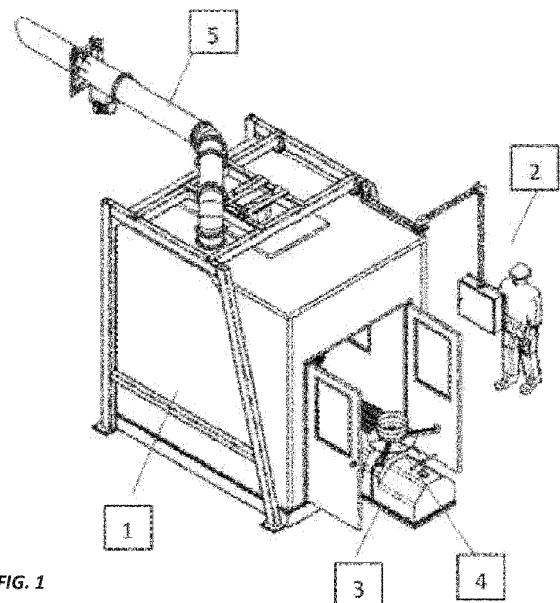


FIG. 1