

**METHOD AND SYSTEM FOR CREATING FUNCTIONALLY
GRADED MATERIALS USING COLD SPRAY
ABSTRACT OF THE DISCLOSURE**

A method and system for depositing multiple materials onto a substrate is described. The method broadly comprises the steps of providing a source of a first powder material to be deposited, providing a source of a second powder material to be deposited, and sequentially depositing the first powder material and the second powder material onto the substrate at a velocity sufficient to deposit the materials by plastically deforming the materials without metallurgically transforming the particles of powder forming the materials.

Figure 1