



METALLIC POWDERS AND METHODS THEREFOR

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The Invention

UW-Madison researchers have discovered a new method to create pore-free metal powders for additive manufacturing applications. This is accomplished by removing the pores that are introduced during the atomization process by applying a high temperature gradient created by a specially designed cooling/heating condition. By heating the surface of the powders while still molten, the temperature gradient is reversed, enabling the pores to migrate to the surface and dissipate. The specific heating profile and timing are key to making the process function properly.

Additional Information

For More Information About the Inventors

- [Lianyi Chen](#)

Tech Fields

- [Engineering : Additive manufacturing](#)

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867