

6-2018-4599 | New Methodology to Control Calcium Carbonate Morphology and Material State  
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## Background

The ability to control the shape, size and crystalline state of  $\text{CaCO}_3$  is significant for several industries including:

- Powder additives- improved flow properties (spherical shape versus irregular) of ink material, rubber filler, and tablet fillers
- Additives to polymers and plastic improve thermal properties (amorphous material versus crystals)
- Usage of spheres as template material for drug delivery layer-by-layer methods, simple template for removal.
- Possibly usage in cosmetics for color or texture improvement
- Nutrition additive- Potentially has improves bio-absorption (small amorphous nanoparticle compared to the commonly used micro crystals).

## Patent Status

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