



# A Superior Nano Glass Particle Manufacturing Process (ACE™)

The traditional open-ended and dry ball milling method of manufacturing nano-sized glass particles suffers from serious health and productivity drawbacks. Per se, it fails to capture all sub-micron size glass particles produced, as some remain invisibly floating in the air. As a result, it also impacts the overall cost of production of nano-sized glass particles.

This invention uses an automated, continuous, and enclosed (ACE™) process that features safety, reliability, scalability and higher productivity of nano-sized glass particles of varying sizes. This invention promises to industrialize the process of manufacturing “zero dimension” glass particles.

We are currently seeking collaborations on mutual terms for (a) test-to-market (implementation partners) and (b) advancing future research (research partners).

*Illustrative figures show varying sizes of glass particles. The third figure from left shows sub-micron glass particles manufactured using ACE™ process*



Waste Glass (A)

Cullet (B)

ACE™ Glass Powder (C)

Sources: A. [sixpacrecycle.com](http://sixpacrecycle.com); B. [zippe.de](http://zippe.de); C. Inventors

For further information regarding this technology please contact:

## Office of Research Translation

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## Competitive Advantages

- Uses Automated, Continuous, Enclosed (ACE™) technology
- Increases productivity of nano-sized glass particles
- Safe and scalable
- Adjustable by more than two orders of magnitude of micron/sub-micron particles in size

## Commercial Applications

- Industrial production of nano-glass particles
- Environment-friendly approach towards reduction of waste-glass landfilling trends

## IP Status

- Licensing available

## Status of Development

- Seeking implementation and research advancement partners



## Lead Inventor

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