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A Nanoparticle-Based Coagulation Method for Cost-Effective Microalgae Harvesting

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Summary: A cost-effective method to harvest microalgae

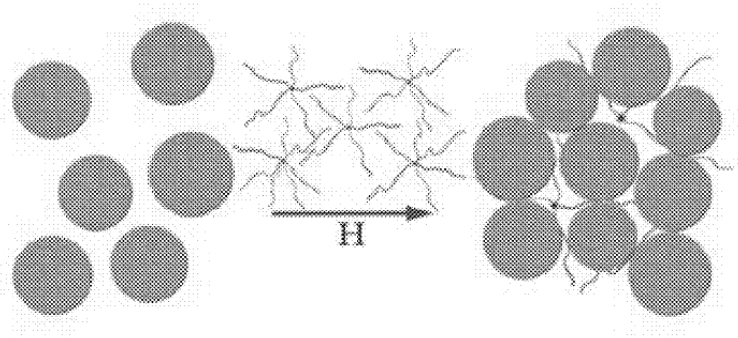
Description: Microalgea have enormous potential as a renewable source for biofuel. In this invention we report a method to harvest microalgae that is both cost-effective and efficient. Current methods (e.g., centrifugation, filtration, flotation, and ultrasound sedimentation) are limited by their high cost or because they interfere with downstream processes. This method uses nanoparticles in a unique manner so the microalgae coagulate and are easily and efficiently harvested. The nanoparticles and other materials can be massed-produced at low cost, are reusable, and require no post-harvesting processes to be removed.

Potential Areas of Application

- Energy production
- Biofuels

Main Advantages of this Invention

- Cost-effective
- Efficient
- Inert to downstream processes



Depicts particles adhering to microalgae

ID number: 10005

Intellectual Property Status: US utility patent pending (application #14/556,675)

Opportunity: We are seeking an exclusive or non-exclusive licensee for marketing, manufacturing, and sale of this technology.

For more information contact:
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