

## EMAT Enhanced Dispersion of Particles in Liquid

### **Disclosure Number**

201102550

### **Technology Summary**

Dispersion of particulate material in a liquid media can be enhanced by application of sonic or ultrasonic energy. Application of acoustic energy can be accomplished by several transduction means such as piezoelectric, magnetostrictive, and electromagnetic. One method that has been found particularly effective for conductive materials is electromagnetic acoustic transduction (EMAT). The engineering achievement is to balance acoustic power and heating so as to produce the final product with minimum power consumption. The technical approach can be implemented for continuous and batch processes although the presumption is that most industrial applications would benefit more from continuous mixing.

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