ABSTRACT

An apparatus and method to exfoliate a graphite grain is described. A mixture of a graphite grain and a fluid medium are transferred into a vessel. The vessel includes an agitator and a chiller. The chiller chills the mixture such that the fluid medium at least partially solidifies into an ice grain. The agitator agitates the mixture to induce a contact between the graphite grain and the ice grain. The contact between the graphite grain and the ice grain exfoliates the graphite grain.

Figure 2