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(54) Title: CARBONATE AGGREGATE COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME

(57) Abstract: Methods of making carbonate aggregates are provided. Aspects of the methods include: preparing a carbonate slurry, subjecting the carbonate slurry to rotational action, e.g., by introducing the carbonate slurry (optionally with an aggregate substrate) into a revolving drum under conditions sufficient to produce a carbonate aggregate, e.g., made up of a spherical coating on a substrate and/or agglomeration particles. Also provided are aggregate compositions produced by the methods, as well as compositions that includes the carbonate coated aggregates, e.g., concretes, and uses thereof.

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