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(54) Title: METHOD AND SYSTEM TO PRODUCE A CONCRETE MATERIAL HAVING OPTIMIZED STRENGTH AND PARTICLE PACKING PROPERTIES

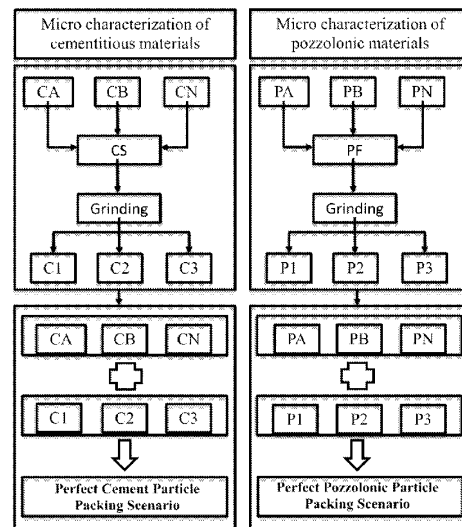


Fig. 4

(57) Abstract: The present invention relates to a method and system to produce a concrete material having optimized strength and particle packing properties. The method and system includes a micro characterization step of a plurality of starting cementitious materials and at least one starting pozzolonic material to get respectively at least one cementitious material having uniform strength and at least one pozzolonic material having uniform blaine fineness. Then grinding the said at least one cementitious material having uniform strength and the said at least one pozzolonic material having uniform blaine fineness to get at least one cementitious material having a required Blaine fineness and at least one pozzolonic material having a required Blaine fineness. Finally preparing the said concrete material by mixing the said micro characterized cementitious materials and/or pozzolonic materials with at least one aggregate material, at least one additive material or a mixture thereof.

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