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(54) Title: AGGREGATE FOR CONCRETE AND CONSTRUCTION

(57) Abstract: The present invention relates generally to a method of forming a lightweight fly ash aggregate together with the resultant fly ash aggregate. The invention further relates to various aspects of the method of forming the lightweight fly ash aggregate including methods of forming fly ash slurry or dough, briquettes, or lightweight fly ash particles. The general steps involved in forming a lightweight fly ash aggregate are as follows: I. blending fly ash together with a plasticiser and a reduced quantity of water; II. compacting or compressing the resultant fly ash slurry or dough; III. cutting or otherwise forming the dough or slurry into briquettes; IV. heating the briquettes to effectively cure the dough or slurry; V. firing the briquettes to sinter the fly ash; VI. crushing the sintered briquettes and sizing, preferably screening, the resultant fly ash particles to provide the lightweight fly ash aggregate of a predetermined size range.



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