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**5693137****USE OF ALUMINA CLAY WITH CEMENT FLY ASH MIXTURES**Styron Robert W Marietta, GA, UNITED STATES  
JTM Industries Inc

A cementitious mixture includes hydraulic cement, fly ash, and an effective amount of unfired nature finely divided material, such as a clay, containing at least about 35% alumina, to accelerate the early strength of a mix. A method of accelerating early strength in a cementitious mix comprises the adding of alumina in the form of an unfired raw material, such as clay, in an effective amount in such mix.

**5697189****LIGHTWEIGHT INSULATED CONCRETE WALL**Miller John F; Miller Andrew J  
Honolulu, HI, UNITED STATES

A lightweight structural concrete wall panel for house construction, includes a sandwich construction of two thin fiber reinforced concrete faces enclosing vertical panels of insulation material consisting of expanded polystyrene. Vertical structural concrete ribs between the insulation panels are used to interconnect the concrete faces. A continuous track system cast in the upper edge of the panel and projecting connect bars at the lower edge of the wall, connecting this wall to the

surrounding structure in such a manner that the floor slab can be poured after erecting the walls. The face of the wall panel can be cast in such a manner as to appear as siding or another desirable building surface. Window and door openings can also be cast into this wall.

**5698027****METHOD AND PLANT FOR MANUFACTURING MINERALIZED PORTLAND CEMENT CLINKER**Borgholm Hans Erik; Herfort Duncan; Mogensen Ole Valby, DENMARK  
F L Smidth & Co A/S

PCT No. PCT/DK95/00075 Sec. 371 Date Nov. 1, 1996 Sec. 102(e) Date Nov. 1, 1996 PCT Filed Feb. 21, 1995 PCT Pub. No. WO95/23773 PCT Pub. Date Sep. 8, 1995. The invention relates to a method and a plant for manufacturing mineralized portland cement clinker. The method and plant provides for preheating, calcining, burning and finally cooling the clinker. The mineralizer may e.g. be gypsum, fluorine, or a waste product containing these or other mineralizers. The mineralizer is added to the feedstock after the feedstock has been fed to the process, preferably after the cyclone which handles the feed to the calciner, i.e. the last cyclone in the preheater, or the lowermost preheater stage in a plant which does not incorporate a calciner.



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