

Title (en)

IMPROVED CEMENT COMPOSITION AND CONSTRUCTION FOR BUILDING PANELS AND OTHER BUILDING MATERIALS.

Title (de)

VERBESSERTE ZEMENTSZUSAMMENSETZUNG UND KONSTRUKTION FÜR BAUPLATTE UND ANDERE BAUELEMENTE.

Title (fr)

COMPOSITION DE CIMENT AMELIORE ET CONSTRUCTION POUR PANNEAUX ET AUTRES ELEMENTS DE CONSTRUCTION.

Publication

**EP 0632793 A1 19950111 (EN)**

Application

**EP 93908644 A 19930329**

Priority

- US 85958592 A 19920327
- US 95922692 A 19921113
- US 9302923 W 19930329

Abstract (en)

[origin: WO9320020A2] An improved cement composition includes a sufficient amount of diatomaceous earth to provide substantial heat insulation and resistance to decomposition which would otherwise occur at very high temperatures. The cement composition also includes an amount of fibrous material and/or organic (polymer) binder(s) (integrally and impregnated) sufficient to increase the tensile strength, handleability, and machineability of the cement composition. The composition is initially created to include a plurality of fluid pockets as the basis for achieving the features cited. A composite building panel is formed from the cement composition by pouring or placing the cement composition in a 4- to 6-sided preformed box with integral insulating core. The preformed box becomes bound to the poured/placed cement composition and upon curing becomes an integral part of the final panel product. The building panel includes a surface material that has an organic polymer applied to a first side thereof. The cement composition is provided with a sufficient amount of moisture and/or organic polymer to bind with the organic polymer applied to the surface material so that the surface material is substantially integrally formed with the building panel.

IPC 1-7

**C04B 28/02**; **E04C 2/26**

IPC 8 full level

**C04B 28/02** (2006.01); **E04C 2/288** (2006.01)

CPC (source: EP)

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See references of WO 9320020A2

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