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(71) Applicant: GCP APPLIED TECHNOLOGIES INC.

[US/US]; 62 Whittemore Ave., Cambridge, MA 02140 (US).

(72) Inventors: **CHUN, Byong-wa**; 1124 21st Avenue, Honolulu, HI 96816 (US). **TREGGER, Nathan, A.**; 267 Davis Street, Northborough, MA 01532 (US). **BERODIER, Elise**; Rue de la Tour 3, 1004 Lausanne (CH). **BURNS, Elizabeth**; 2 Eastwood Road, Windham, NH 03087 (US). **ROCHA, Ernie**; 8 Dumpling Way, Merrimack, NH 03054 (US). **YURDAKUL, Ezgi**; 2504/101 Bathurst Street, Sydney, 2000 (AU). **ROBERTS, Mark, F.**; 31 Bridges Lane, North Andover, MA 01845 (US).

(74) Agent: **LEON, Craig, K.**; 62 Whittemore Ave., Cambridge, MA 02140 (US).

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(54) Title: NON-HYDRATION STRENGTH IN CEMENTITIOUS COMPOSITIONS

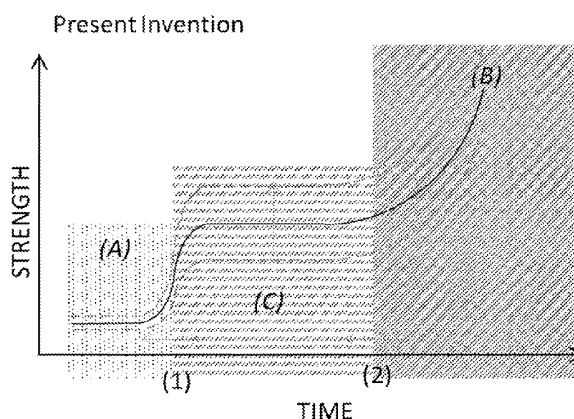


FIG. 2

(57) Abstract: Described are compositions and methods for controlled strength development in a hydratable cementitious material, and more particularly to the use of polymerizable monomer components, which are initiated and activated by a redox pair which are mixed in controlled fashion, for enhancing non-hydration strength within the matrix of the plastic hydratable cementitious material before setting of the cementitious material begins. Exemplary applications include minimizing pressures on formwork for high fluid ready-mix applications, enhancing support and bonding properties for integrated concrete slab work and other sequential applications, or facilitating speedy 3D printing applications, among other unique possibilities.

[Continued on next page]

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