

Title (en)
CEMENTITIOUS COMPOSITE CONSTITUENT RELATIONSHIPS

Title (de)
BEZIEHUNGEN VON BESTANDTEILEN VON ZEMENTARTIGEM VERBUNDSTOFF

Title (fr)
RELATIONS ENTRE CONSTITUANTS D'UN COMPOSITE CIMENTAIRE

Publication
EP 3707309 A4 20210825 (EN)

Application
EP 18876500 A 20181105

Priority
• US 201715806980 A 20171108
• US 201715807373 A 20171108
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Abstract (en)
[origin: WO2019094335A1] A cementitious composite for in-situ hydration includes a first layer, a second layer spaced from the first layer, and a cementitious mixture disposed between the first layer and the second layer. The cementitious mixture includes cementitious materials. The cementitious mixture is configured to absorb a mass of water that provides a maximum 28 day compressive strength of the cementitious composite upon curing which is represented by $M_w = x \cdot M_c$. M_w is the mass of the water per unit area of the cementitious composite. M_c is a mass of the cementitious materials of the cementitious mixture per unit area of the cementitious composite, x is a ratio of the mass of the water relative to the mass of the cementitious materials of the cementitious mixture per unit area of the cementitious composite that provides the maximum 28 day compressive strength of the cementitious composite, x is between 0.25 and 0.55.

IPC 8 full level
E02B 3/12 (2006.01); **B32B 3/12** (2006.01); **B32B 5/26** (2006.01); **B32B 7/08** (2019.01); **B32B 13/00** (2006.01); **C04B 28/02** (2006.01); **C04B 40/06** (2006.01); **E02B 5/02** (2006.01); **E02D 17/20** (2006.01)

CPC (source: EP)
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C-Set (source: EP)
1. **C04B 40/0616 + C04B 20/0048 + C04B 28/04**
2. **C04B 40/0616 + C04B 20/0048 + C04B 28/06**

Citation (search report)
• [X] WO 2013067034 A1 20130510 - CORTEX COMPOSITES LLC [US]
• [X] WO 2017079661 A1 20170511 - CORTEX COMPOSITES INC [US]
• [X] US 2014170916 A1 20140619 - KRASNOFF CURREN E [US], et al
• [X] WO 2010086618 A2 20100805 - CONCRETE CANVAS LTD [GB], et al
• [A] US 984121 A 19110214 - CONDIE CHRISTOPHER COLUMBUS [US]
• [A] US 2015099098 A1 20150409 - BAHUKUDUMBI PRADIPKUMAR [US], et al
• [A] US 6586083 B1 20030701 - WEISS JR CHARLES ARTHUR [US], et al
• See also references of WO 2019094335A1

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