

Title (en)

GEOTHERMAL GROUT AND METHOD OF PREPARING SAME

Title (de)

GEOTHERMISCHER INJEKTIONSMÖRTEL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

COULIS GÉOTHERMIQUE ET PROCÉDÉ DE PRÉPARATION DE CELUI-CI

Publication

EP 2480511 A4 20130814 (EN)

Application

EP 09849630 A 20090921

Priority

US 2009057638 W 20090921

Abstract (en)

[origin: WO2011034545A1] A thermally enhanced, single component, geothermal grout is composed of recycled materials including class F fly ash and cement kiln dust and is particularly useful as a grout mixture in filling a borehole in the ground for use in protecting a loop of a geothermal sytem. Additional components of the grout mixture can include a mid-range water reducer and a dry caustic material. The thermally enhanced geothermal grout can comprise a class F fly ash in a range of between approximately 50 to 80% by weight of the grout and cement kiln dust in a range of between approximately 20 to 50% by weight of the grout mixture.

IPC 8 full level

C04B 14/00 (2006.01)

CPC (source: EP)

C04B 28/021 (2013.01); **C04B 40/0608** (2013.01); **C09K 8/46** (2013.01); **F24T 10/15** (2018.04); **C04B 2111/00663** (2013.01); **C04B 2111/00706** (2013.01); **C04B 2111/34** (2013.01); **C04B 2111/70** (2013.01); **C04B 2201/32** (2013.01); **F24T 2010/53** (2018.04); **Y02E 10/10** (2013.01); **Y02W 30/91** (2015.05)

Citation (search report)

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Citation (examination)

KEJIN WANG ET AL: "Effects of curing temperature and NaOH addition on hydration and strength development of clinker-free CKD-fly ash binders", CEMENT AND CONCRETE RESEARCH., vol. 34, no. 2, 12 September 2003 (2003-09-12), US, pages 299 - 309, XP055233521, ISSN: 0008-8846, DOI: 10.1016/j.cemconres.2003.08.003

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