

Title (en)

ROCKS AND AGGREGATE, AND METHODS OF MAKING AND USING THE SAME

Title (de)

ZUSAMMENSETZUNG MIT SYNTHETISCHEN STEINEN UND AGGREGATEN SOWIE VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

ROCHES ET AGRÉGATS AINSI QUE LEURS PROCÉDÉS DE PRODUCTION ET D UTILISATION

Publication

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Application

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- US 5717308 P 20080529
- US 7331908 P 20080617
- US 7332608 P 20080617
- US 16320508 A 20080627
- US 8129908 P 20080716
- US 8276608 P 20080722
- US 8834008 P 20080812
- US 8834708 P 20080813
- US 9603508 P 20080911
- US 10163108 P 20080930
- US 10162608 P 20080930
- US 10162908 P 20080930
- US 10764508 P 20081022
- US 11614108 P 20081119
- US 11754308 P 20081124
- US 11754108 P 20081124
- US 11754208 P 20081124
- US 12187208 P 20081211
- US 2008088246 W 20081223
- US 2008088242 W 20081223
- US 34401908 A 20081224
- US 14835309 P 20090129
- US 14963309 P 20090203
- US 14964009 P 20090203
- US 15899209 P 20090310
- US 16816609 P 20090409
- US 17008609 P 20090416
- US 17847509 P 20090514
- US 18125009 P 20090526
- US 2008068564 W 20080627

Abstract (en)

[origin: WO2009146436A1] Compositions comprising synthetic rock, e.g., aggregate, and methods of producing and using them are provided. The rock, e.g., aggregate, contains CO₂ and/or other components of an industrial waste stream. The CO₂ may be in the form of divalent cation carbonates, e.g., magnesium and calcium carbonates. Aspects of the invention include contacting a CO₂ containing gaseous stream with a water to dissolve CO₂, and placing the water under precipitation conditions sufficient to produce a carbonate containing precipitate product, e.g., a divalent cation carbonate.

IPC 8 full level

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C-Set (source: EP)

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Citation (search report)

- [I] WO 2007082505 A2 20070726 - OSING DIRK A [DE]
- [I] DE 19512163 A1 19951005 - INAX CORP [JP], et al
- [I] US 2007202032 A1 20070830 - GEERLINGS JACOBUS J C [NL], et al
- [I] US 2001022952 A1 20010920 - RAU GREGORY H [US], et al
- [I] US 2005238563 A1 20051027 - EIGHMY T T [US], et al
- [X] E. SCHWAB: "Calciumhydroxid", January 2004 (2004-01-01), XP002577920, Retrieved from the Internet <URL:http://www.roempp.com/prod/index1.html> [retrieved on 20100415]
- [A] A. MOTTANA ET AL: "Der grosse Mineralienführer", 1979, BLV VERLAGSGESELLSCHAFT MBH, München, pages: 194, XP002577921

Citation (examination)

- AMELINGMEIER E.: "Aragonit", May 2005 (2005-05-01), Retrieved from the Internet <URL:http://www.roempp.com/prod/> [retrieved on 20120619]

- AMELINGMEIER E.: "Vaterit", November 2010 (2010-11-01), Retrieved from the Internet <URL:http://www.roempp.com/prod/> [retrieved on 20120619]
- GROTEKLAES M.: "Dolomit", February 2005 (2005-02-01), Retrieved from the Internet <URL:http://www.roempp.com/prod/> [retrieved on 20120619]
- See also references of WO 2009146436A1

Cited by

US10556848B2; US11858819B2; US2022288556A1; US11554357B2; US11717802B2; US11918970B2

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