

Title (en)  
COMPOSITIONS AND METHODS USING SUBSTANCES CONTAINING CARBON

Title (de)  
ZUSAMMENSETZUNGEN UND VERFAHREN UNTER VERWENDUNG KOHLENSTOFFHALTIGER SUBSTANZEN

Title (fr)  
COMPOSITIONS ET PROCÉDÉS UTILISANT DES MATIÈRES CARBONÉES

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Application  
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- US 16816609 P 20090409
- US 17008609 P 20090416
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- US 18125009 P 20090526
- US 2009045722 W 20090529
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Abstract (en)  
[origin: WO2010039909A1] Methods of characterizing and producing compositions with negative d13C values are provided. Aspects of the invention include characterizing source materials and process products. Aspects of the invention also include compositions that contain carbon with negative d13C values.

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Citation (search report)

- [A] WO 2007022595 A1 20070301 - AGRIFORCE PTY LTD [AU], et al
- [X] J.R.HEIN,W.R.NORMARK,B.R.MCINTYRE,T.D.LORENSEN,C.L.POWELL II: "Methanogen calcite, 13C-depleted bivalve shells, and gas hydrate from a mud volcano offshore southern California", GEOLOGY, no. 2, February 2006 (2006-02-01), pages 109 - 112, XP002614227
- [X] P.JENSEN,I.AAGAARD,R.A.BURKE,P.R.DANDO,N.O.JORGENSEN,A.KUIJPERS,T.LAIER,S.C.M.O'HARA,R.SCHMALJOHANN: "Bubbling reefs in the Kattegat: submarine landscapes of carbonate-cemented rocks support a diverse ecosystem at methane seeps", MARINE ECOLOGY PROGRESS SERIES, vol. 83, 16 July 1992 (1992-07-16), pages 103 - 112, XP002614228
- [A] D.BIELLO: "Cement from CO2: a concrete cure for global warming", SCIENTIFIC AMERICAN, 7 August 2008 (2008-08-07), XP002614229, Retrieved from the Internet <URL:http://www.scientificamerican.com/article.cfm?id=cement-from-carbon-dioxide> [retrieved on 20101214]
- [A] G.SKRZYPEK,D.PAUL: "d13C analyses of calcium carbonate: comparison between the GasBench and elemental analyzer techniques", RAPID COMMUNICATIONS IN MASS SPECTROMETRY, vol. 20, 2006, pages 2915 - 2920, XP002614230
- [A] Y.HORII,B.VAN BAVEL, K.KANNAN, G.PETRICK, K.NACHTIGALL, N.YAMASHITA: "Novel evidence for natural formation of dioxins in ball clay", CHEMOSPHERE, vol. 70, 7 September 2007 (2007-09-07), pages 1280 - 1289, XP002614231
- See references of WO 2010039909A1

Citation (examination)  
WO 0034197 A1 20000615 - MCNULTY WILLIAM J JR

Cited by  
US10556848B2

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