

Title (en)
SYNTHETIC AGGREGATES COMPRISING SEWAGE SLUDGE AND OTHER WASTE MATERIALS AND METHODS FOR PRODUCING SUCH AGGREGATES

Title (de)
KLÄRSCHLAMM UND ANDERE ABFALLMATERIALIEN ENTHALTENDE SYNTHETISCHE AGGREGATE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
AGREGATS DE SYNTHÈSE COMPRENANT DES BOUES D'EPURATION ET D'AUTRES DECHETS ET PROCEDES POUR PRODUIRE DES AGREGATS DE CE TYPE

Publication
EP 1841708 A2 20071010 (EN)

Application
EP 06701096 A 20060113

Priority

- EP 2006000272 W 20060113
- GR 20050100015 A 20050114
- GR 20050100470 A 20050916
- US 72188805 P 20050928

Abstract (en)
[origin: WO2006074946A2] In one example of an embodiment of the invention, a method for producing an aggregate is disclosed comprising mixing sewage sludge from a waste water treatment facility with a non-coal combustion ash silicoaluminous waste material, agglomerating the mixture to form an agglomerate, and pyroprocessing the agglomerate to form an aggregate. The waste material may comprise municipal solid waste incinerator bottom ash, incinerator fly ash, incinerator filter dusts, cement kiln dusts, waste glass, blast furnace slag, kiln dusts, and/or granite sawing residues, for example. The method may further comprise milling the waste material prior to mixing. Preferably, the milling is wet milling. Pyroprocessing of the agglomerate may take place in a rotary kiln. The resulting aggregate may be a lightweight or a normal weight, sintered or vitrified aggregate. Aggregates and methods for making aggregates of high and low calcium silicoaluminous materials are also disclosed.

IPC 8 full level
C04B 18/02 (2006.01); **C04B 18/04** (2006.01); **C04B 33/13** (2006.01)

CPC (source: EP)
C04B 18/023 (2013.01); **C04B 33/13** (2013.01); **C04B 33/1321** (2013.01); **C04B 33/1324** (2013.01); **C04B 33/1328** (2013.01); **C04B 33/135** (2013.01); **C04B 33/1352** (2013.01); **C04B 33/1355** (2013.01); **C04B 33/138** (2013.01); **C04B 33/32** (2013.01); **C04B 35/62695** (2013.01); **C04B 2111/40** (2013.01); **C04B 2235/3208** (2013.01); **C04B 2235/3272** (2013.01); **C04B 2235/5427** (2013.01); **C04B 2235/656** (2013.01); **C04B 2235/72** (2013.01); **C04B 2235/77** (2013.01); **C04B 2235/96** (2013.01); **Y02P 40/60** (2015.11); **Y02W 30/91** (2015.05)

Citation (search report)
See references of WO 2006074946A2

Citation (examination)

- JP 2001253740 A 20010918 - SUMITOMO METAL MINING CO
- BETHANIS S ET AL: "PRODUCTION OF LIGHTWEIGHT AGGREGATE FROM INCINERATOR BOTTOM ASH AND PULVERISED FUEL ASH", INTERNATIONAL CONFERENCE ON WASTE MANAGEMENT AND THE ENVIRONMENT, XX, XX, 29 September 2004 (2004-09-29), pages 55 - 64, XP008053699

Cited by
CN113061019A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006074946 A2 20060720; **WO 2006074946 A3 20061012**; CA 2637107 A1 20060720; EP 1841708 A2 20071010; JP 2008538347 A 20081023; NO 20074171 L 20071015

DOCDB simple family (application)
EP 2006000272 W 20060113; CA 2637107 A 20060113; EP 06701096 A 20060113; JP 2007550763 A 20060113; NO 20074171 A 20070814