

Title (en)
Builder composition

Title (de)
Builder-Zusammensetzung

Title (fr)
Composition d'adjuvant

Publication
EP 1253189 B1 20061115 (DE)

Application
EP 02008621 A 20020417

Priority
DE 10121051 A 20010428

Abstract (en)
[origin: EP1253189A2] Production of a builder composition comprises mixing a crystalline layered sodium silicate (I) with water or an aqueous solution or dispersion of at least one detergent ingredient in a specified (I):water molar ratio. Production of a builder composition comprises mixing a crystalline layered sodium silicate of formula $\text{NaMSixO}_2\text{x-1.yH}_2\text{O}$ (I) with water or an aqueous solution or dispersion of at least one detergent ingredient in a (I):water molar ratio of 0.5-20:1, and heat-treating the mixture at 30-400 degrees C for 0.5-1000 minutes. M = Na or H; x = 1.9-4; y = 0-20.

IPC 8 full level
C11D 3/08 (2006.01); **C11D 3/12** (2006.01)

CPC (source: EP US)
C11D 3/1273 (2013.01 - EP US)

Cited by
WO2011106158A1

Designated contracting state (EPC)
BE CH DE ES FR GB IT LI

DOCDB simple family (publication)
EP 1253189 A2 20021030; EP 1253189 A3 20030618; EP 1253189 B1 20061115; DE 10121051 A1 20021031; DE 50208676 D1 20061228; ES 2273939 T3 20070516; JP 2002363594 A 20021218; US 2003073605 A1 20030417; US 6908896 B2 20050621

DOCDB simple family (application)
EP 02008621 A 20020417; DE 10121051 A 20010428; DE 50208676 T 20020417; ES 02008621 T 20020417; JP 2002127063 A 20020426; US 12379602 A 20020416