

Title (en)
PROCESS FOR THE PRODUCTION OF GRANULAR ZEOLITES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ZEOLITH-GRANULATEN

Title (fr)
PROCEDE DE FABRICATION DE GRANULATS DE ZEOLITE

Publication
EP 0560802 B2 20020828 (DE)

Application
EP 91920221 A 19911125

Priority
• DE 4038609 A 19901204
• EP 9102209 W 19911125

Abstract (en)
[origin: WO9210559A1] The aim of the invention is to develop a granulation process for the production of heavy zeolite granulates. In this process, the amount of liquid used is a less critical factor, thus enabling (co)polymeric carboxylates to be utilized as a dissolved component of the liquid used in the granulation process. This is achieved by using as the liquid a mixture of water, surface-active agents and (co)polymeric carboxylates, the surfactant content in the liquid being at least 10 % by wt.

IPC 1-7
C11D 3/12; **C11D 3/37**; **C11D 17/06**

IPC 8 full level
C11D 3/12 (2006.01); **C11D 3/37** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP KR US)
C11D 3/12 (2013.01 - KR); **C11D 3/128** (2013.01 - EP US); **C11D 3/3761** (2013.01 - EP US); **C11D 17/065** (2013.01 - EP US)

Cited by
RU2615506C1; US6683042B1

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

DOCDB simple family (publication)
WO 9210559 A1 19920625; AT E122382 T1 19950515; DE 4038609 A1 19920611; DE 59105474 D1 19950614; EP 0560802 A1 19930922; EP 0560802 B1 19950510; EP 0560802 B2 20020828; ES 2071345 T3 19950616; ES 2071345 T5 20030316; JP 3167721 B2 20010521; JP H06503109 A 19940407; KR 0181978 B1 19990415; KR 930703424 A 19931130; US 5399287 A 19950321

DOCDB simple family (application)
EP 9102209 W 19911125; AT 91920221 T 19911125; DE 4038609 A 19901204; DE 59105474 T 19911125; EP 91920221 A 19911125; ES 91920221 T 19911125; JP 50030992 A 19911125; KR 930701683 A 19930604; US 7044293 A 19930604