

Title (en)
SOLUBLE ACID POLYPHOSPHATES AND DEVICE FOR THEIR PRODUCTION

Title (de)
LÖSLICHE, SAURE POLYPHOSPHATE UND VERFAHREN UND VORRICHTUNG ZU IHRER HERSTELLUNG

Title (fr)
POLYPHOSPHATES ACIDES SOLUBLES ET DISPOSITIF UTILISE POUR LEUR FABRICATION

Publication
EP 0991589 A1 20000412 (DE)

Application
EP 98938627 A 19980623

Priority
• DE 19727144 A 19970626
• EP 9803823 W 19980623

Abstract (en)
[origin: DE19727144A1] The invention relates to a method for producing soluble acid polyphosphates with an Na/P ratio of 0.3 to 0.6, a P₂O₅ content of over 77 %wt., a Na₂O content of under 20 % and a residual water content of 3-10 %. The invention is characterized in that an aqueous phosphate solution is dried in order to form chain-like polyphosphates with an average chain length of 10 to 30, and then fused for 30-180 minutes at temperatures of 400-600 DEG C. The fusion is cooled, forming a vitreous product. During fusion, steam pressure of 0.1 to 0.5 bar is maintained in the atmosphere in contact with the fusion. The invention also relates to the polyphosphates produced by this method and to their use.

IPC 1-7
C01B 25/41; **A23C 19/082**

IPC 8 full level
A23C 19/082 (2006.01); **C01B 25/41** (2006.01)

CPC (source: EP KR)
A23C 19/082 (2013.01 - EP); **C01B 25/41** (2013.01 - EP KR)

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

DOCDB simple family (publication)
WO 9900324 A1 19990107; AU 734894 B2 20010628; AU 8728198 A 19990119; BR 9811271 A 20000718; CA 2295687 A1 19990107; CA 2295687 C 20031118; CN 1161273 C 20040811; CN 1261328 A 20000726; CZ 300062 B6 20090121; CZ 451099 A3 20000614; DE 19727144 A1 19990107; EP 0991589 A1 20000412; HU P0003050 A2 20010228; HU P0003050 A3 20030228; JP 2002507957 A 20020312; KR 100522290 B1 20051019; KR 20010014220 A 20010226; PL 192090 B1 20060831; PL 337655 A1 20000828; SK 176899 A3 20000711; SK 286395 B6 20080905

DOCDB simple family (application)
EP 9803823 W 19980623; AU 8728198 A 19980623; BR 9811271 A 19980623; CA 2295687 A 19980623; CN 98806585 A 19980623; CZ 451099 A 19980623; DE 19727144 A 19970626; EP 98938627 A 19980623; HU P0003050 A 19980623; JP 50526999 A 19980623; KR 19997012306 A 19991224; PL 33765598 A 19980623; SK 176899 A 19980623