

Title (en)
Use of phosphate compounds

Title (de)
Verwendung von Phosphat-Compounds

Title (fr)
Utilisation des composés de phosphate

Publication
EP 1382665 A1 20040121 (DE)

Application
EP 03019563 A 19991214

Priority
• DE 19859807 A 19981223
• EP 99963522 A 19991214

Abstract (en)
Phosphate pre-mixes for use in washing and detergent agents contain (wt) at least 50 % pentasodium triphosphate (STP), less than 5 % Na pyrophosphate and a maximum of 18% water and are in the form of agglomerates of primary particles. An Independent claim is also included for preparation of phosphate pre-mixes by agglomerating anhydrous STP powder (and optionally also further washing or detergent agent ingredients) with 12-28 wt.% water in a high-speed mixer and then drying the product in a fluidized bed with product temperature below 60 degreesC to a free-water content below 5 wt.%.

Abstract (de)
Die Verwendung von Phosphat-Compounds, die mindestens 50 Gew.-% Pentanatriumtriphosphat, weniger als 5 Gew.-% Natriumpyrophosphat sowie maximal 18 Gew.-% Wasser enthalten und die als Agglomerate aus Primärteilchen vorliegen, führt zu einer Verbesserung der mechanischen Stabilität der Formkörper in Wasch- oder Reinigungsmittelformkörpern.

IPC 1-7
C11D 3/06; **C11D 17/00**; **C11D 7/16**; **C11D 3/37**; **C11D 3/36**; **C11D 17/06**

IPC 8 full level
C11D 3/06 (2006.01); **C11D 3/36** (2006.01); **C11D 3/37** (2006.01); **C11D 7/16** (2006.01); **C11D 17/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)
C11D 3/06 (2013.01); **C11D 17/0073** (2013.01); **C11D 17/065** (2013.01)

Citation (search report)
• [DX] GB 1466868 A 19770309 - UNILEVER LTD
• [DX] DE 2925137 A1 19810108 - KAROLY KERI DIPL ING
• [DX] DE 4435743 A1 19950824 - CHEMOLUX SARL [LU]
• [A] DE 19502774 A1 19960801 - HENKEL KGAA [DE]
• [A] GB 1048831 A 19661123 - UNILEVER LTD

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1382665 A1 20040121; AT E290581 T1 20050315; DE 19859807 A1 20000629; DE 59911739 D1 20050414; EP 1141191 A1 20011010; EP 1141191 B1 20050309; ES 2239473 T3 20050916; WO 0039260 A1 20000706

DOCDB simple family (application)
EP 03019563 A 19991214; AT 99963522 T 19991214; DE 19859807 A 19981223; DE 59911739 T 19991214; EP 9909892 W 19991214; EP 99963522 A 19991214; ES 99963522 T 19991214