

Title (en)  
Compound comprising a zink salt and a crystalline, layered silicate

Title (de)  
Compound enthaltend ein Zinksalz und ein kristallines, schichtförmiges Silikat

Title (fr)  
Composé comprenant un sel de zinc et silicate cristallin à structure en couches

Publication  
**EP 1657295 A1 20060517 (DE)**

Application  
**EP 05027033 A 20030528**

Priority

- EP 03735481 A 20030528
- DE 10225116 A 20020606

Abstract (en)  
Automatic dishwasher detergent or rinse aid contains zinc salt(s) and crystalline foliated silicate(s) (I), which may contain metal(s) selected from alkali and alkaline earth metals, a sub-group element, preferably zinc, iron or manganese, a main group III element and/or a main group V element. Automatic dishwasher detergent or rinse aid contains zinc salt(s) and crystalline foliated silicate(s) of formula (I);  $aA_2O.bBO.cC_2O_3.dD_2O_5.xSiO_2.fH_2O$  (I); A : alkali metal and/or H; B : alkaline earth metal and/or a sub-group element, preferably Zn, Fe, Mn; C : main group III element and/or a sub-group element, preferably Fe; D : a main group V element and/or a sub-group element; a : 0.1; b : 0-0.5; c/x : 0-0.05; d/x : 0-0.25; x : 1.9-22; f : 0-40.

IPC 8 full level  
**C11D 3/12** (2006.01); **C11D 3/00** (2006.01); **C11D 3/02** (2006.01); **C11D 3/08** (2006.01); **C11D 3/20** (2006.01); **C11D 3/34** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP)  
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Citation (search report)

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**WO 03104370 A1 20031218**; AT E381608 T1 20080115; AU 2003237704 A1 20031222; DE 10225116 A1 20031224; DE 50308871 D1 20080131; EP 1509589 A1 20050302; EP 1509589 B1 20141022; EP 1657295 A1 20060517; EP 1657295 B1 20071219; ES 2298919 T3 20080516; ES 2527542 T3 20150126; JP 2005534728 A 20051117

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**EP 0305602 W 20030528**; AT 05027033 T 20030528; AU 2003237704 A 20030528; DE 10225116 A 20020606; DE 50308871 T 20030528; EP 03735481 A 20030528; EP 05027033 A 20030528; ES 03735481 T 20030528; ES 05027033 T 20030528; JP 2004511431 A 20030528