

Title (en)

Use of formamidine salts as bleach activators

Title (de)

Verwendung von Formamidine-Salzen als Bleichaktivatoren

Title (fr)

Utilisation des sels de formamidine comme activateurs de blanchiment

Publication

**EP 0930358 A2 19990721 (DE)**

Application

**EP 99100003 A 19990102**

Priority

DE 19801049 A 19980114

Abstract (en)

Use of formamidine salts (I) as bleach activators is claimed. Use of formamidine salts of formula (I) as bleach activators is claimed; R<1>-R<4> = 1-24C (hydroxy)alkyl, 2-24C alkenyl, 2-24C chloroalkyl, 1-24C aminoalkyl, aryl, 1-4C alkylaryl or 1-4C alkoxy-(1-4 C)-alkyl; or NR<1>R<2> and/or NR<3>R<4> or NR<1>-C-NR<3> or NR<2>-C-NR<4> = a 4-9-membered ring, which may contain oxygen (-O-), sulfur (-S-), imino (-NH-) or carbonyl (C=O) instead of methylene (-CH<sub>2</sub>-) group(s) and may be substituted by halogen, OH, carboxyl, amino or carbonamido groups; X = F, Cl or Br; A = an anion. An independent claim is also included for laundry and other detergents containing 1-60 wt.% of a peroxy compound and 0.05-20 wt.% of a compound of formula (I).

Abstract (de)

Die Verwendung von Verbindungen der allgemeinen Formel <IMAGE> als Bleichaktivatoren in Wasch- und Reinigungsmitteln wird, wobei R<1>, R<2>, R<3> und R<4>, X und A die in der Beschreibung genannten Bedeutungen haben.

IPC 1-7

**C11D 3/395**

IPC 8 full level

**C11D 3/30** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01)

CPC (source: EP US)

**C11D 3/3927** (2013.01 - EP US)

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

**DE 19801049 A1 19990715**; DE 59909070 D1 20040513; EP 0930358 A2 19990721; EP 0930358 A3 19991117; EP 0930358 B1 20040407; JP H11256188 A 19990921; US 6028047 A 20000222

DOCDB simple family (application)

**DE 19801049 A 19980114**; DE 59909070 T 19990102; EP 99100003 A 19990102; JP 657399 A 19990113; US 22920499 A 19990113