

Title (en)

TRANSITION-METAL COMPLEXES USED AS ACTIVATORS FOR PEROXY COMPOUNDS

Title (de)

ÜBERANGSMETALLKOMPLEXE ALS AKTIVATOREN FÜR PERSAUERSTOFFVERBINDUNGEN

Title (fr)

COMPLEXES DE METAUX DE TRANSITION UTILISES COMME ACTIVATEURS POUR COMPOSES PEROXY

Publication

**EP 0880579 A2 19981202 (DE)**

Application

**EP 97904389 A 19970207**

Priority

- DE 19605688 A 19960216
- EP 9700550 W 19970207

Abstract (en)

[origin: DE19605688A1] Described are complexes of the transition metals manganese, iron, cobalt, ruthenium, molybdenum, titanium, vanadium and/or copper containing one or more ligands of general formula (I) ou (II) in which R is a direct bond or an optionally amin-group-substituted alkylene group with 1 to 4 C-atoms, A is a condensed or non-condensed ring system containing at least one nitrogen atom, B is hydrogen, an OH-group or the same as A, and X is a phenyl ring optionally substituted with hydroxy and/or C1-4 alkyl or an optionally hydroxy-substituted C1-4 alkylene group. The complexes are suitable for use as activators or peroxy compounds in oxidative washing, cleaning and disinfectant solutions, washing and cleaning agents preferably containing 0.0025 to 0.25 % by wt. of such activator complexes.

IPC 1-7

**C11D 3/39**

IPC 8 full level

**B01J 31/18** (2006.01); **C07D 233/64** (2006.01); **C07F 13/00** (2006.01); **C07F 15/02** (2006.01); **C11D 3/16** (2006.01); **C11D 3/39** (2006.01)

CPC (source: EP US)

**B01J 31/1815** (2013.01 - EP US); **C07F 13/005** (2013.01 - EP US); **C07F 15/025** (2013.01 - EP US); **C11D 3/3932** (2013.01 - EP US); **B01J 2531/16** (2013.01 - EP US); **B01J 2531/46** (2013.01 - EP US); **B01J 2531/56** (2013.01 - EP US); **B01J 2531/64** (2013.01 - EP US); **B01J 2531/72** (2013.01 - EP US); **B01J 2531/821** (2013.01 - EP US); **B01J 2531/842** (2013.01 - EP US); **B01J 2531/845** (2013.01 - EP US)

Citation (examination)

- EP 0782999 A1 19970709 - HOECHST AG [DE]
- EP 0783035 A2 19970709 - HOECHST AG [DE]
- WO 9718035 A1 19970522 - ELF AQUITAINE [FR], et al
- Z. Naturforsch., B: Chem. Sci., Band 47 Nr. 1 (1992), S.115-120
- Z. Naturforsch. B: Anorganische Chemie und organische Chemie, Band 42b, Nr. 1, Jan 1987, S. 52-54
- Inorganica Chimica Acta, 96 (1984), S. 115-119
- Inorganica Chimica Acta, 163 (1989), S. 9-10

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL PT

DOCDB simple family (publication)

**DE 19605688 A1 19970821**; EP 0880579 A2 19981202; US 6153576 A 20001128; WO 9730144 A2 19970821; WO 9730144 A3 19971231

DOCDB simple family (application)

**DE 19605688 A 19960216**; EP 9700550 W 19970207; EP 97904389 A 19970207; US 12533298 A 19980916