

Title (en)

PHOSPHATISING SOLUTION WITH HYDROGEN PEROXIDE AND CHELATING CARBOXYLIC ACIDS

Title (de)

PHOSPHATIERLÖSUNG MIT WASSERSTOFFPEROXID UND CHELATBILDENDEN CARBONSÄUREN

Title (fr)

SOLUTION DE PHOSPHATATION CONTENANT DU PEROXYDE D'HYDROGENE ET DES ACIDES CARBOXYLIQUES CHELATEURS

Publication

**EP 1929070 A1 20080611 (DE)**

Application

**EP 06776869 A 20060816**

Priority

- EP 2006008063 W 20060816
- DE 102005047424 A 20050930

Abstract (en)

[origin: DE102005047424A1] Phosphating solution contains (in g/l) 0.2-3 zinc (II) ions, 3-50 phosphate ions (calculated as PO<sub>4</sub><sup>3-</sup> ->), 15-50 hydrogen peroxide or an equivalent amount of a hydrogen peroxide-splitting substance and 0.3-15 aliphatic chelate-forming carboxylic acid with 2-7 carbon atoms with a content of free acid of a maximum one point. Independent claims are also included for the following: (1) Aqueous concentrate; and (2) Method for phosphating metal surfaces made from steel, galvanized steel and/or aluminum.

IPC 8 full level

**C23C 22/18** (2006.01); **C23C 22/16** (2006.01); **C23C 22/17** (2006.01); **C23C 22/36** (2006.01)

CPC (source: EP US)

**C23C 22/16** (2013.01 - EP US); **C23C 22/17** (2013.01 - EP US); **C23C 22/188** (2013.01 - EP US); **C23C 22/365** (2013.01 - EP US)

Citation (search report)

See references of WO 2007039015A1

Citation (examination)

- GB 1591039 A 19810610 - PYRENE CHEMICAL SERVICES LTD
- EP 0866888 A1 19980930 - METALLGESELLSCHAFT AG [DE]
- US 5268041 A 19931207 - GEHMECKER HORST [DE], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102005047424 A1 20070405**; CN 101278075 A 20081001; CN 101278075 B 20120516; EP 1929070 A1 20080611; RU 2008116542 A 20091110; RU 2428518 C2 20110910; US 2009071573 A1 20090319; WO 2007039015 A1 20070412; ZA 200802778 B 20081231

DOCDB simple family (application)

**DE 102005047424 A 20050930**; CN 200680036461 A 20060816; EP 06776869 A 20060816; EP 2006008063 W 20060816; RU 2008116542 A 20060816; US 5598408 A 20080326; ZA 200802778 A 20080328