Title (en)

AQUEOUS COMPOSITIONS COMPRISING COMPLEXING AGENTS AND USES THEROF

Title (de)

KOMPLEXBILDNER ENTHALTENDE WÄSSRIGE ZUSAMMENSETZUNGEN UND DEREN VERWENDUNG

Title (fr)

COMPOSITIONS AQUEUSES COMPRENANT DES AGENTS DE COMPLEXION, ET LEURS UTILISATIONS

Publication

EP 1045936 A1 20001025 (EN)

Application

EP 99900263 A 19990125

Priority

- GB 9802022 A 19980131
- IB 9900122 W 19990125

Abstract (en)

[origin: GB2333772A] Specific complexing agents are very effective, specific complexing agents for certain metal ions, namely Cu, Fe, Zn, Ni and Co, but not for calcium ions. Thus, these specific agents are very effective complexing agents in technical applications, whereby the presence of calcium is unavoidable or even essential and whereby complexing of specific metal ions is required or whereby delivery of specific, chelated metal ions is required. The invention relates to aqueous compositions, comprising calcium ions and metal ions selected from the group comprising Cu, Fe, Zn, Ni and Co, and specific complexing agents (in particular ethylenediamine disuccinic acid, EDDS) and applications for these aqueous compositions, such as in a reductive bleaching process for the bleaching of cellulosic material, such as cotton, pulp or paper; in a process for removal of metal scale; in a process for electroless plating of metal; in a fermentation process, preferably part of a process for clarification of beer or wine; in a process for tanning of leather or human skin; in a process for stabilisation or inhibition of algae, fungi or plant growth; in a process for production or preservation of food; for the treatment of metal dermatitis of the external skin, preferably of copper or nickel dermatitis; for the reduction of the enzymatic activity of enzymes in contact with the human or animal body or skin, preferably lipase enzymes present in the body extrudates, preferably for treatment of enzymatic dermatitis or of malodour of the body; for the treatment of metal poisoning, preferably iron-loading; for the stabilisation or inhibition or reduction of algae, fungi and/or plant growth; and for complexing or chelating of one or more metal ions, selected from the group consisting of Cu, Fe, Zn, Ni and Co.

IPC 1-7

D21C 9/10; A61K 31/195; C23C 18/40; C14C 3/00; C05D 9/02; C05G 3/00

IPC 8 full level

A23L 3/358 (2006.01); **A61K 8/27** (2006.01); **A61K 8/44** (2006.01); **A61K 9/08** (2006.01); **A61K 31/198** (2006.01); **A61K 33/06** (2006.01); **A61K 33/26** (2006.01); **A61K 33/30** (2006.01); **A61K 33/34** (2006.01); **A61P 3/02** (2006.01); **A61P 17/00** (2006.01); **A61P 39/04** (2006.01); **A61Q 15/00** (2006.01); **A61Q 19/04** (2006.01); **C05D 9/02** (2006.01); **C05G 3/00** (2006.01); **C07C 229/76** (2006.01); **C09K 3/00** (2006.01); **C11D 3/02** (2006.01); **C11D 3/33** (2006.01); **C12H 1/14** (2006.01); **C14C 3/00** (2006.01); **C23C 18/16** (2006.01); **C23C 18/31** (2006.01); **C23G 1/14** (2006.01); **D21C 9/10** (2006.01)

CPC (source: EP)

A61K 8/44 (2013.01); **A61P 3/02** (2017.12); **A61P 17/00** (2017.12); **A61P 39/04** (2017.12); **A61Q 15/00** (2013.01); **A61Q 19/04** (2013.01); **C07C 229/76** (2013.01); **C11D 3/046** (2013.01); **C11D 3/33** (2013.01); **C23C 18/31** (2013.01); **C23G 1/14** (2013.01); A61K 2800/51 (2013.01); A61K 2800/782 (2013.01)

Citation (search report)

See references of WO 9939045A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

GB 2333772 A 19990804; **GB 9802022 D0 19980325**; AU 1887399 A 19990816; CA 2335037 A1 19990805; EP 1045936 A1 20001025; JP 2002501979 A 20020122; WO 9939045 A1 19990805

DOCDB simple family (application)

GB 9802022 A 19980131; AU 1887399 A 19990125; CA 2335037 A 19990125; EP 99900263 A 19990125; IB 9900122 W 19990125; JP 2000529495 A 19990125