

Title (en)
Scratch inhibiting agent.

Title (de)
Schrammen verhinderndes Mittel.

Title (fr)
Agent empêchant les éraflures.

Publication
EP 0235961 A1 19870909 (EN)

Application
EP 87301004 A 19870204

Priority
JP 2318686 A 19860205

Abstract (en)
A scratch inhibiting agent for inhibiting the generation of scratches on the surface of a siliceous inorganic product caused by an alkaline detergent comprising, as a main ingredient, at least one compound selected from the group consisting of (A) aliphatic hydroxydicarboxylic acids having a functional group ratio (OH/COOH) of 1.0 to 2.0 and the alkali metal salts thereof and (B) polycarboxylic acids having a molecular weight of 5000 to 20000 and the alkali metal salts thereof. This scratch inhibiting agent can effectively prevent the generation and expansion of scratches on the surfaces of the siliceous inorganic products without decreasing the washing power of aqueous alkaline solutions at a washing step.

IPC 1-7
C11D 3/37; C11D 1/04; C11D 1/08

IPC 8 full level
C11D 7/06 (2006.01); **C03C 23/00** (2006.01); **C11D 3/20** (2006.01); **C11D 3/37** (2006.01); **C11D 7/22** (2006.01); **C11D 7/26** (2006.01); **C11D 7/60** (2006.01)

CPC (source: EP)
C11D 3/2086 (2013.01); **C11D 3/3761** (2013.01)

Citation (search report)
• [A] DD 207920 A1 19840321 - BITTERFELD CHEMIE [DD]
• [A] CHEMICAL ABSTRACTS, vol. 92, no. 16, 21st April 1980, page 322, column 2 - page 323, column 1, abstract no. 133950f, Columbus, Ohio, US; & JP - A - 79 137 020 (KOKAI TOKKYO KOHO) 24-10-1979
• [A] CHEMICAL ABSTRACTS, vol. 103, no. 10, 9th September 1985, page 71, column 2, abstract no. 89153t, Columbus, Ohio, US; & JP - A - 60 60947 (KOKAI TOKKYO KOHO) 08-04-1985

Cited by
US6106633A; US5849095A; AU728702B2; WO9738079A1; US11046868B2; US11028344B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0235961 A1 19870909; JP S62283200 A 19871209

DOCDB simple family (application)
EP 87301004 A 19870204; JP 2032087 A 19870130