

Title (en)

USE OF WATER-INSOLUBLE ALUMINIUM SILICATES IN THE TANNING OF LEATHER BY CHROMIUM COMPOUNDS

Publication

EP 0005546 B1 19820623 (DE)

Application

EP 79101513 A 19790517

Priority

DE 2822072 A 19780520

Abstract (en)

[origin: ES480706A1] In the process of tanning for the production of leather comprising subjecting uncured hides to the action of an aqueous liquor containing (1) chemical tanning agents, and (2) auxiliary chemicals to tanning and recovering leather, the improvement consisting of essentially of employing water-insoluble aluminosilicate, containing bound water of the formula $(Cat)_2/nO \cdot x \cdot Al_2O_3 \cdot (SiO_2)_y$ wherein Cat represents a cation selected from the group consisting of alkali metals, bivalent metal ions, trivalent metal ions, and mixtures thereof, n represents an integer from 1 to 3 of the valence of said cation, x is an integer from 0.5 to 1.8 and y is an integer from 0.8 to 50, said aluminosilicates having an average particle size in the range of 0.1 μ to 5 mm and a calcium binding power of from 0 to 200 mg CaO/gm of anhydrous active substance measured at 22 DEG C. according to the Calcium Binding Power Test Method set out in the specification, in combination with a polycarboxylate selected from the group consisting of aliphatic dicarboxylic acids having from 2 to 8 carbon atoms, aliphatic tricarboxylate acids having from 4 to 8 carbon atoms, benzene dicarboxylic acids, benzenetricarboxylic acids and hydrolyzable partial esters thereof with aliphatic alcohols having from 1 to 6 carbon atoms and 1 to 6 hydroxyl groups as partial replacement of said chemical tanning agents and said auxiliary chemicals to tanning.

IPC 1-7

C14C 3/06; **C01B 33/26**

IPC 8 full level

C14C 1/00 (2006.01); **C14C 1/08** (2006.01); **C14C 3/02** (2006.01); **C14C 3/06** (2006.01)

CPC (source: EP KR US)

C14C 1/00 (2013.01 - KR); **C14C 1/08** (2013.01 - KR); **C14C 3/02** (2013.01 - EP US); **C14C 3/06** (2013.01 - EP US)

Cited by

FR2754274A1; DE2831846A1; WO9814620A1

Designated contracting state (EPC)

BE FR GB IT

DOCDB simple family (publication)

EP 0005546 A2 19791128; **EP 0005546 A3 19791212**; **EP 0005546 B1 19820623**; BR 7903084 A 19791204; CA 1121109 A 19820406; DE 2822072 A1 19791129; ES 480706 A1 19791201; HU 180777 B 19830429; JP S54154501 A 19791205; JP S6219800 B2 19870501; KR 830000722 A 19830418; KR 840002218 B1 19841203; MX 158184 A 19890116; NZ 190493 A 19820316; PL 115247 B1 19810331; PL 215664 A1 19800225; TR 20107 A 19800806; US 4221564 A 19800909; YU 115179 A 19831031; YU 42096 B 19880430

DOCDB simple family (application)

EP 79101513 A 19790517; BR 7903084 A 19790518; CA 320963 A 19790206; DE 2822072 A 19780520; ES 480706 A 19790518; HU HE000784 A 19790517; JP 6061579 A 19790518; KR 790000378 A 19790208; MX 17771679 A 19790518; NZ 19049379 A 19790518; PL 21566479 A 19790517; TR 2010779 A 19790515; US 92366278 A 19780711; YU 115179 A 19790516