Title (en)

PRODUCTION OF SHEET ARTICLES HAVING SELF-CLEANING SURFACES BY USING A CALENDERING PROCESS, SHEET ARTICLES THEMSELVES AND THE USE THEREOF

Title (de)

HERSTELLUNG VON BAHNENWAREN MIT SELBSTREINIGENDEN OBERFLÄCHEN MITTELS EINES KALANDRIERPROZESSES, BAHNENWAREN SELBST UND DIE VERWENDUNG DIESER

Title (fr)

FABRICATION D'ARTICLES EN BANDES COMPORTANT DES SURFACES AUTONETTOYANTES AU MOYEN D'UN PROCESSUS DE CALANDRAGE, ARTICLES EN BANDES ET UTILISATION

Publication

**EP 1485243 A1 20041215 (DE)**

Application

**EP 03704516 A 20030203**

Priority

- DE 10210667 A 20020312
- EP 0301027 W 20030203

Abstract (en)

[origin: WO03076168A1] The invention relates to calendered sheet articles having surfaces, which have self-cleaning properties, and to a simple method for producing self-cleaning surfaces of this type. The inventive method is very simple by virtue of the fact that it can involve the use of existing tools. Sheet articles made of polymers having a high melting viscosity or sheet articles having a woven fabric core are generally produced by using calenders. The inventive method involves the use of these calenders by applying microparticles to at least one roller of the calender. As the sheets are passed by, these microparticles are transferred thereto while being pressed into the surface of the sheet articles. The inventive method makes it possible to obtain self-cleaning surfaces comprising particles with a fissured structure without having to apply an additional embossed layer or foreign material supporting layer to the sheet articles. The inventive sheet articles can be used, for example, as automotive truck tarpaulins, covering tarpaulins, awnings, sunshading roofs or tent tarpaulins.

IPC 1-7

**B29C 70/64**; B29C 59/02; B29C 43/22

IPC 8 full level

**B29C 43/22** (2006.01); **B29C 59/02** (2006.01); **B29C 70/64** (2006.01); **B32B 3/16** (2006.01); **B32B 9/00** (2006.01); **D06M 11/79** (2006.01); **D06M 23/08** (2006.01); B29C 59/04 (2006.01)

CPC (source: EP US)

**B29C 43/222** (2013.01 - EP US); **B29C 59/022** (2013.01 - EP US); **B29C 70/64** (2013.01 - EP US); B29C 59/04 (2013.01 - EP US); B29C 2059/023 (2013.01 - EP US); B29C 2059/028 (2013.01 - EP US); Y10T 428/24372 (2015.01 - EP US); Y10T 428/254 (2015.01 - EP US); Y10T 428/259 (2015.01 - EP US)

Citation (search report)

See references of WO 03076168A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 03076168 A1 20030918**; AU 2003206819 A1 20030922; AU 2003206819 B2 20080417; CA 2478837 A1 20030918; DE 10210667 A1 20030925; EP 1485243 A1 20041215; JP 2005526637 A 20050908; US 2005103457 A1 20050519

DOCDB simple family (application)

**EP 0301027 W 20030203**; AU 2003206819 A 20030203; CA 2478837 A 20030203; DE 10210667 A 20020312; EP 03704516 A 20030203; JP 2003574417 A 20030203; US 50623804 A 20040908