

Title (en)

Web cleaning roller and method of using same

Title (de)

Putzwalze zur Reinigung eines Bandes sowie Verfahren zur Verwendung derselben

Title (fr)

Rouleau de nettoyage de bandes et son procédé d'utilisation

Publication

EP 0827023 A1 19980304 (EN)

Application

EP 97202535 A 19970818

Priority

US 70816596 A 19960830

Abstract (en)

A method of cleaning particles from a web by contacting the web with a web cleaning roller. The web cleaning roller (10) has a core (12) having thereon an exterior layer (14) of polyurethane. The polyurethane is copolymerized with a charge control agent of the formula <CHEM> where R<1> represents: <CHEM> R<2> represents sulfonate, oxyphenylene sulfonate, oxycyclohexylene sulfonate or p-toluenesulfonamidosulfonyl; x and y are integers which together are of sufficient value to achieve an R<1> molecular weight of 300 to 30,000; and M represents hydrogen, an alkali metal, ammonium or P<+><C6H5>3CH3. The charge control agent is nonleachable from the polyurethane and is present in an amount sufficient to impart a selected amount of electric charge resistivity to the polyurethane. The durometer of the web cleaning roller is from about 15 to about 40 Shore A, and wherein said charge control agent prevents migration of moisture to said web during cleaning. <IMAGE>

IPC 1-7

G03C 11/06

IPC 8 full level

B08B 1/20 (2024.01); **B08B 6/00** (2006.01); **B08B 11/00** (2006.01); **C11D 1/88** (2006.01); **G03C 11/06** (2006.01)

CPC (source: EP)

G03C 11/06 (2013.01)

Citation (search report)

- [X] EP 0604334 A1 19940629 - EASTMAN KODAK CO [US]
- [DA] US 4729925 A 19880308 - CHEN TSANG J [US], et al

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0827023 A1 19980304; JP H10121092 A 19980512

DOCDB simple family (application)

EP 97202535 A 19970818; JP 23301097 A 19970828