

Title (en)  
Wrapping materials for smoking articles

Title (de)  
Umhüllungsmaterialien für Rauchtartikel

Title (fr)  
Matériaux d'enrobage pour articles à fumer

Publication  
**EP 2172119 A1 20100407 (EN)**

Application  
**EP 10150360 A 20031125**

Priority  
• EP 03783753 A 20031125  
• US 30364602 A 20021125  
• US 30364802 A 20021125  
• US 30363902 A 20021125  
• US 68655803 A 20031015

Abstract (en)  
A wrapping material for a smoking article is proposed, the wrapping material comprising a base sheet having a major surface, and a plurality of bands applied to the major surface in the form of a pattern, each band comprising a plurality of layers applied one over the other, wherein at least one of the plurality of layers incorporates as an additive at least one flavoring agent, and at least one of the plurality of layers incorporates as an additive a hydrate material.

IPC 8 full level  
**A24D 1/02** (2006.01); **D21H 19/68** (2006.01); **D21H 11/12** (2006.01); **D21H 17/67** (2006.01)

CPC (source: EP)  
**A24D 1/025** (2013.01); **D21H 19/68** (2013.01); **D21H 11/12** (2013.01); **D21H 17/67** (2013.01)

Citation (applicant)  
• US 4924888 A 19900515 - PERFETTI THOMAS A [US], et al  
• US 5143098 A 19920901 - ROGERS ROBERT M [US], et al  
• US 4998543 A 19910312 - GOODMAN BARBRO L [US], et al  
• US 5220930 A 19930622 - GENTRY JEFFERY S [US]  
• US 5271419 A 19931221 - ARZONICO BARBARA W [US], et al  
• US 1909924 A 19330516 - SCHWEITZER LOUIS P, et al  
• US 4607647 A 19860826 - DASHLEY FREDERICK J [GB], et al  
• US 5060675 A 19911029 - MILFORD ELLEN C [US], et al  
• US 2666437 A 19540119 - ALPHONSE LATTOF  
• US 3030963 A 19620424 - COHN CHARLES C  
• US 4146040 A 19790327 - COHN CHARLES C  
• US 4453553 A 19840612 - COHN CHARLES C [US]  
• US 4489650 A 19841225 - HASLER WERNER [DE], et al  
• US 4489738 A 19841225 - SIMON ELI [US]  
• US 4615345 A 19861007 - DUROCHER DONALD F [US]  
• US 1996002 A 19350326 - ELMER SEAMAN STEWART  
• US 1999222 A 19350430 - WEINBERGER MAURICE X C  
• US 2013508 A 19350903 - ELMER SEAMAN STEWART  
• US 4452259 A 19840605 - NORMAN VELLO [US], et al  
• US 4889145 A 19891226 - ADAMS BRIAN [IE], et al  
• US 5417228 A 19950523 - BALDWIN SHERYL D [US], et al  
• US 5878753 A 19990309 - PETERSON RICHARD M [US], et al  
• US 5878754 A 19990309 - PETERSON RICHARD M [US], et al  
• US 6198537 B1 20010306 - BOKELMAN GORDON H [US], et al  
• US 2002139381 A1 20021003 - PETERSON RICHARD M [US], et al  
• WO 0237991 A1 20020516 - SCHWEITZER MAUDUIT INTERNAT [US]  
• WO 02055294 A1 20020718 - RFS ECUSTA [US]  
• US 4739775 A 19880426 - HAMPL JR VLADIMIR [US]  
• US 4945932 A 19900807 - MENTZEL EDGAR [DE], et al  
• US 5474095 A 19951212 - ALLEN JEFFERY L [US], et al  
• WO 0244700 A1 20020606 - PHILIP MORRIS PROD [US], et al  
• WO 02055294 A1 20020718 - RFS ECUSTA [US]  
• US 5191906 A 19930309 - MYRACLE JR JAMES L [US]  
• US 5263999 A 19931123 - BALDWIN SHERYL D [US], et al  
• US 5450863 A 19950919 - COLLINS ALFRED L [US], et al  
• US 2002092621 A1 20020718 - SUZUKI HIROSHI [US]  
• US 4474110 A 19841002 - ROSNER CHARLES A [US]  
• US 5056537 A 19911015 - BROWN THOMAS W [US], et al  
• WO 0237990 A2 20020516 - VECTOR TOBACCO BERMUDA LTD [US], et al  
• US 4836224 A 19890606 - LAWSON JERRY W [US], et al  
• US 5159942 A 19921103 - BRINKLEY PAUL A [US], et al  
• US 5360023 A 19941101 - BLAKLEY RICHARD L [US], et al  
• US 5714844 A 19980203 - SATO TOSHIMI [JP]  
• US 2002000235 A1 20020103 - SHAFER KENNETH [US], et al  
• US 2003075193 A1 20030424 - LI PING [US], et al  
• US 2003131859 A1 20030717 - LI PING [US], et al  
• US 28539502 A 20021031  
• US 46321103 A 20030617

- US 2002166563 A1 20021114 - JUPE RICHARD [US], et al
- US 4508525 A 19850402 - BERGER RICHARD M [US]
- US 4807809 A 19890228 - PRYOR JAMES W [US], et al
- US 4920990 A 19900501 - LAWRENCE BRIAN M [US], et al
- US 5012829 A 19910507 - THESING RICHARD A [US], et al
- US 5025814 A 19910625 - RAKER MARK L [US]
- US 5074320 A 19911224 - JONES JR ELBERT C [US], et al
- US 5101839 A 19920407 - JAKOB STEPHEN W [US], et al
- US 5105834 A 19920421 - SAINTSING BARRY L [US], et al
- US 5105838 A 19920421 - WHITE JACKIE L [US], et al
- US 5595218 A 19970121 - HALLBACH RAYMOND L [US], et al
- US 5718250 A 19980217 - BANERJEE CHANDRA KUMAR [US], et al
- US 6537186 B1 20030325 - VELUZ SERGE [CH]
- US 2002014453 A1 20020207 - LILLY A CLIFTON [US], et al
- US 2002020420 A1 20020221 - XUE LIXIN LUKE [US], et al
- US 2003168070 A1 20030911 - XUE LIXIN LUKE [US], et al
- US 60071203 A 20030623
- WO 03059096 A1 20030724 - PHILIP MORRIS PROD [CH], et al
- EP 0920816 A2 19990609 - BRITISH AMERICAN TOBACCO CO [GB]
- US 4779631 A 19881025 - DUROCHER DONALD F [US], et al
- US 5849153 A 19981215 - ISHINO YOSHIKI [JP], et al
- US 2754207 A 19560710 - SCHUR MILTON O, et al
- WO 0148318 A1 20010705 - JAPAN TOBACCO INC [JP], et al
- US 4805644 A 19890221 - HAMPL JR VLADIMIR [US], et al
- US 5161551 A 19921110 - SANDERS EDWARD B [US], et al
- US 5263500 A 19931123 - BALDWIN SHERYL D [US], et al
- WO 0148316 A1 20010705 - JAPAN TOBACCO INC [JP], et al
- US 3049449 A 19620814 - ALLEGRI ALDO P
- US 4108151 A 19780822 - MARTIN R HUGO, et al
- US 4231377 A 19801104 - CLINE WARREN K, et al
- US 4450847 A 19840529 - OWENS WILLIAM F [US]
- US 4915118 A 19900410 - KAUFMAN CLIFFORD M [US], et al
- US 5092306 A 19920303 - BOKELMAN GORDON H [US], et al
- US 5109876 A 19920505 - HAYDEN RHONDA F [US], et al
- US 5699811 A 19971223 - PAINE III JOHN B [US]
- US 5927288 A 19990727 - BENSALAM AZZEDINE [US], et al
- US 5979461 A 19991109 - BENSALAM AZZEDINE [US], et al
- US 6138684 A 20001031 - YAMAZAKI AKIRA [JP], et al
- EP 0357359 A2 19900307 - BRITISH AMERICAN TOBACCO CO [GB]
- US 2998012 A 19610829 - LAMM WILLIAM R
- US 4433679 A 19840228 - MAULDIN DONALD M [US], et al
- US 5103844 A 19920414 - HAYDEN RHONDA F [US], et al
- WO 0141590 A1 20010614 - BRITISH AMERICAN TOBACCO CO [GB], et al
- EP 1084629 A1 20010321 - SCHWEITZER MAUDUIT INT INC [US]
- US 5168884 A 19921208 - BALDWIN SHERYL D [US], et al
- US 2580568 A 19520101 - MATTHEWS ROBINSON E, et al
- US 4461311 A 19840724 - MATHEWS JOHN H [US], et al
- US 4622983 A 19861118 - MATHEWS JOHN H [US], et al
- US 4941485 A 19900717 - PERFETTI PATRICIA F [US], et al
- US 4998541 A 19910312 - PERFETTI PATRICIA F [US], et al
- WO 0108514 A1 20010208 - PHILIP MORRIS PROD [US], et al
- EP 1084630 A1 20010321 - SCHWEITZER MAUDUIT INT INC [US]
- US 4230131 A 19801028 - SIMON ELI
- US 2755207 A 19560717 - FRANKENBURG WALTER G
- US 4804002 A 19890214 - HERRON JOE N [US]
- US 4941486 A 19900717 - DUBE MICHAEL F [US], et al
- WO 0243513 A1 20020606 - LORILLARD LICENSING COMPANY LL [US]
- WO 0243513 A1 20020606 - LORILLARD LICENSING COMPANY LL [US]
- WO 0243513 A1 20020606 - LORILLARD LICENSING COMPANY LL [US]
- EP 1234514 A2 20020828 - LORILLARD LICENSING COMPANY LL [US]
- US 64599603 A 20030822
- US 46321103 A 20030617
- US 2003136420 A1 20030724 - KRAKER THOMAS A [US]
- TOBACCO PRODUCTION, CHEMISTRY AND TECHNOLOGY, 1999
- DUROCHER, TJI, March 1985 (1985-03-01), pages 188 - 194
- "Pocket Pal", 1970, INTERNATIONAL PAPER COMPANY
- SCARLETT ET AL., WHAT THE PRINTER SHOULD KNOW ABOUT INK, 1984
- GRAVURE, PROCESS AND TECHNOLOGY, GRAV, EDUC. FDN. AND GRAV. ASSOC. AMER., 1991
- "Tobacco Production, Chemistry and Technology", 1999
- "Tobacco Encyclopedia", 1984, pages: 44 - 45
- BROWNE: "The Design of Cigarettes", 1990, pages: 43
- "Tobacco Production, Chemistry and Technology", 1999, pages: 346
- BOMBICK ET AL., FUND. APPL. TOXICOL, vol. 39, 1997, pages 11 - 17
- GUTCHO: "Tobacco Flavoring Substances and Methods", 1972, NOYES DATA CORP.
- LEFFINGWELL ET AL., TOBACCO FLAVORING FOR SMOKING PRODUCTS, 1972
- BROWNE: "The Design of Cigarettes", 1990
- CORN STARCH, 1955
- FLICK: "Handbook of Adhesive Raw Materials", 1982, NOYES PUBLICATIONS, pages: 109 - 113
- DICK: "Compounding Materials for the Polymer Industries", 1987, NOYES PUBLICATIONS, pages: 271 - 275
- FLICK: "Handbook of Adhesive Raw Materials", 1982, NOYES PUBLICATIONS, pages: 71 - 74, 214-2

Citation (search report)

- [XI] WO 02078471 A1 20021010 - LORILLARD LICENSING COMPANY LL [US]

- [AD] EP 1234514 A2 20020828 - LORILLARD LICENSING COMPANY LL [US]
- [AD] US 2002139381 A1 20021003 - PETERSON RICHARD M [US], et al

Cited by

RU2622559C2; RU2622559C9

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 RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

**WO 2004047572 A1 20040610**; AU 2003291158 A1 20040618; CA 2506302 A1 20040610; EP 1569531 A1 20050907; EP 1569531 A4 20090715; EP 1569531 B1 20100721; EP 2160951 A1 20100310; EP 2160951 B1 20120307; EP 2172119 A1 20100407; EP 2172119 B1 20110928; JP 2006517391 A 20060727; JP 4606170 B2 20110105

DOCDB simple family (application)

**US 0337462 W 20031125**; AU 2003291158 A 20031125; CA 2506302 A 20031125; EP 03783753 A 20031125; EP 09179763 A 20031125; EP 10150360 A 20031125; JP 2004555636 A 20031125