

Title (en)

Smokeless Tobacco Compositions And Methods For Treating Tobacco For Use Therein

Title (de)

Rauchlose Tabakzusammensetzungen und Verfahren zur Behandlung von Tabak zu dessen Verwendung darin

Title (fr)

Composition de tabac sans fumée et procédé pour le traitement du tabac pour de tels usages

Publication

EP 2179666 A2 20100428 (EN)

Application

EP 10152287 A 20080722

Priority

- EP 08796428 A 20080722
- US 78160407 A 20070723
- US 78166607 A 20070723
- US 78164107 A 20070723

Abstract (en)

A process for preparing a tobacco composition suitable for use as a smokeless tobacco composition is proposed, comprising providing a mixture of water and a tobacco material in the form of a slurry, heating the mixture at a temperature and for a time sufficient to pasteurize the mixture, adding an amount of a base to the slurry sufficient to raise the pH of the slurry to an alkaline pH, thereby forming a pH-adjusted mixture, continuing to heat the pH-adjusted mixture at a temperature and for a time sufficient for the pH of the pH-adjusted mixture to drop at least about 0.5 pH unit following said adding step to form a treated tobacco material, and incorporating the treated tobacco material into a smokeless tobacco product.

IPC 8 full level

A24B 15/28 (2006.01); **A24B 3/04** (2006.01); **A24B 13/00** (2006.01)

CPC (source: EP)

A24B 13/00 (2013.01); **A24B 15/183** (2013.01); **A24B 15/28** (2013.01); **A24B 15/283** (2013.01); **A24B 15/30** (2013.01)

Citation (applicant)

- US 1376586 A 19210503 - FRANCIS SCHWARTZ
- US 3696917 A 19721010 - LEVI ELAINE G
- US 4513756 A 19850430 - PITTMAN LUTHER B [US], et al
- US 4528993 A 19850716 - SENSABAUGH JR ANDREW J [US], et al
- US 4624269 A 19861125 - STORY LARRY D [US], et al
- US 4987907 A 19910129 - TOWNEND JOHN [US]
- US 5092352 A 19920303 - SPRINKLE III ROBERT S [US], et al
- US 5387416 A 19950207 - WHITE JACKIE L [US], et al
- US 2005244521 A1 20051103 - STRICKLAND JAMES A [US], et al
- WO 2004095959 A1 20041111 - SWEDISH MATCH NORTH EUROPE AB [SE], et al
- WO 2005063060 A1 20050714 - US SMOKELESS TOBACCO CO [US], et al
- WO 2005004480 A1 20050113 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al
- WO 2005016036 A1 20050224 - GUSTAVUS AB [SE], et al
- WO 2005041699 A2 20050512 - US SMOKELESS TOBACCO CO [US], et al
- US 6953040 B2 20051011 - ATCHLEY FRANK S [US], et al
- US 7032601 B2 20060425 - ATCHLEY FRANK S [US], et al
- US 2005178398 A1 20050818 - BRESLIN JAMES C [US], et al
- US 2006191548 A1 20060831 - STRICKLAND JAMES A [US], et al
- US 46163306 A 20060801
- US 2004261807 A1 20041230 - DUBE MICHAEL FRANCIS [US], et al
- US 4150677 A 19790424 - BEBBS JOSEPH F JR [US], et al
- US 4967771 A 19901106 - FAGG BARRY S [US], et al
- US 5005593 A 19910409 - FAGG BARRY S [US]
- US 5148819 A 19920922 - FAGG BARRY S [US]
- US 5435325 A 19950725 - CLAPP WILLIAM L [US], et al
- US 5065775 A 19911119 - FAGG BARRY S [US]
- US 5360022 A 19941101 - NEWTON DONALD A [US], et al
- US 5131414 A 19920721 - FAGG BARRY S [US], et al
- US 5131415 A 19920721 - MUNOZ JULIO A [US], et al
- US 5318050 A 19940607 - GONZALEZ-PARRA ALVARO [US], et al
- US 3398754 A 19680827 - DENIS TUGHAN VICTOR
- US 3847164 A 19741112 - MATTINA C, et al
- US 4131117 A 19781226 - KITE GEORGE F, et al
- US 4270552 A 19810602 - JENKINS JOHN M, et al
- US 4308877 A 19820105 - MATTINA CHARLES F
- US 4341228 A 19820727 - KERITSIS GUS D, et al
- US 4421126 A 19831220 - GELLATLY GRANT [US]
- US 4706692 A 19871117 - GELLATLY GRANT [US]
- US 4962774 A 19901016 - THOMASSON JAMES S [US], et al
- US 4941484 A 19900717 - CLAPP WILLIAM L [US], et al
- US 4987906 A 19910129 - YOUNG HARVEY J [US], et al
- US 5056537 A 19911015 - BROWN THOMAS W [US], et al
- US 5143097 A 19920901 - STEPHEN SOHN EDWARD J [US], et al
- US 5159942 A 19921103 - BRINKLEY PAUL A [US], et al
- US 5325877 A 19940705 - YOUNG HARVEY J [US], et al
- US 5445169 A 19950829 - BRINKLEY PAUL A [US], et al
- US 5501237 A 19960326 - YOUNG HARVEY J [US], et al
- US 5533530 A 19960709 - YOUNG HARVEY J [US], et al

- US 3353541 A 19671121 - HIND JOHN D, et al
- US 3399454 A 19680903 - ERICH LISKA
- US 3483874 A 19691216 - HIND JOHN D
- US 3760815 A 19730925 - DESZYCK E
- US 4674519 A 19870623 - KERITSIS GUS D [US], et al
- US 4972854 A 19901127 - KIERNAN BERNARD C [US], et al
- US 5023354 A 19910611 - SALOME JEAN-PAUL [FR], et al
- US 5099864 A 19920331 - YOUNG HARVEY J [US], et al
- US 5101839 A 19920407 - JAKOB STEPHEN W [US], et al
- US 5203354 A 19930420 - HICKLE JOHN N [US]
- US 5327917 A 19940712 - LEKWUWA AJU N [US], et al
- US 5339838 A 19940823 - YOUNG HARVEY J [US], et al
- US 5598866 A 19970204 - NELSON CLIFF H [CA]
- US 5715844 A 19980210 - YOUNG HARVEY JAMES [US], et al
- US 5724998 A 19980310 - GELLATLY GRANT [US], et al
- US 6216706 B1 20010417 - KUMAR ASHOK [US], et al
- EP 0565360 A2 19931013 - PHILIP MORRIS [US]
- EP 1055375 A2 20001129 - PHILIP MORRIS PROD [US]
- WO 9801233 A1 19980115 - PHILIP MORRIS PROD [US]
- US 2007068540 A1 20070329 - THOMAS TIMOTHY F [US], et al
- US 3550598 A 19701229 - MCGLUMPHY JAMES H, et al
- US 4889144 A 19891226 - TATENO ATSUSHI [JP], et al
- US 5004595 A 19910402 - CHERUKURI SUBRAMAN R [US], et al
- US 5690990 A 19971125 - BONNER MICHAEL J [US]
- US 5759599 A 19980602 - WAMPLER DANIEL J [US], et al
- US 6039901 A 20000321 - SOPER JON C [US], et al
- US 6045835 A 20000404 - SOPER JON C [US], et al
- US 6056992 A 20000502 - LEW CHEL W [US]
- US 6106875 A 20000822 - SOPER JON C [US], et al
- US 6117455 A 20000912 - TAKADA SHIGEYUKI [JP], et al
- US 6325859 B1 20011204 - DE ROOS KRIS BART [CH], et al
- US 6482433 B1 20021119 - DEROOS KRIS BART [CH], et al
- US 6612429 B2 20030902 - DENNEN ROBERT P [US]
- US 6929814 B2 20050816 - BOUWMEESTERS JOHNNY FRANCISCUS [CH], et al
- US 2006174901 A1 20060810 - KARLES GEORGIOS [US], et al
- US 2007095357 A1 20070503 - BESSO CLEMENT [CH], et al
- WO 2007037962 A1 20070405 - REYNOLDS TOBACCO CO R [US], et al
- US 3339558 A 19670905 - WATERBURY NELSON J [US]
- US 3390686 A 19680702 - IRBY JR RICHARD M, et al
- US 3685521 A 19720822 - DOCK MORTIMER RUSSELL
- US 3916914 A 19751104 - BROOKS GEOFFREY O, et al
- US 6631722 B2 20031014 - MACADAM KEVIN GERARD [GB], et al
- US 7115085 B2 20061003 - DEAL PHILIP ANDREW [US]
- US 2006272663 A1 20061207 - DUBE MICHAEL F [US], et al
- US 2006130861 A1 20060622 - LUAN ZHAOHUA [US], et al
- US 2006144412 A1 20060706 - MISHRA MUNMAYA K [US], et al
- US 2007012327 A1 20070118 - KARLES GEORGIOS D [US], et al
- WO 03009711 A1 20030206 - KIM JINHEE [KR]
- WO 2006136197 A1 20061228 - MANE FILS V [FR], et al
- WO 2006136199 A1 20061228 - MANE FILS V [FR], et al
- WO 2007010407 A2 20070125 - MANE FILS V [FR], et al
- WO 2007060543 A2 20070531 - PHILIP MORRIS PROD [CH]
- US 5223185 A 19930629 - TAKEI NARIMICHI [JP], et al
- US 5387093 A 19950207 - TAKEI NARIMICHI [JP]
- US 5882680 A 19990316 - SUZUKI TOSHIYUKI [JP], et al
- US 6719933 B2 20040413 - NAKAMURA TAKESHI [JP], et al
- US 6949256 B2 20050927 - FONKWE LINUS G [US], et al
- US 2004224020 A1 20041111 - SCHOENHARD GRANT L [US]
- US 2005123601 A1 20050609 - MANE JEAN [FR], et al
- US 2005196437 A1 20050908 - BEDNARZ CHRISTINA A [US], et al
- US 2005249676 A1 20051110 - SCOTT ROBERT [GB], et al
- US 6887307 B1 20050503 - SCOTT ROBERT [BE], et al
- US 6923981 B2 20050802 - LEUNG SAU-HUNG SPENCE [US], et al
- US 4660577 A 19870428 - SENSABAUGH ANDREW J [US], et al
- US 6730832 B1 20040504 - DOMINGUEZ LUIS MAYAN [US], et al
- US 6895974 B2 20050524 - PEELE DAVID MCCRAY [US]
- US 7025066 B2 20060411 - LAWSON JERRY WAYNE [US], et al
- US 69641607 A 20070404
- US 4882128 A 19891121 - HUKVARI ISTVAN S [US], et al
- US 5121757 A 19920616 - WHITE JACKIE L [US], et al
- US 5370139 A 19941206 - SHU CHI-KUEN [US], et al
- US 5343879 A 19940906 - TEAGUE RICHARD A [US]
- US 5413122 A 19950509 - SHU CHI-KUEN [US], et al
- US 5962662 A 19991005 - SHU CHI-KUEN [US], et al
- US 6048404 A 20000411 - WHITE JACKIE LEE [US]
- US 6298858 B1 20011009 - COLEMAN III WILLIAM MONROE [US], et al
- US 6325860 B1 20011204 - COLEMAN III WILLIAM MONROE [US]
- US 6428624 B1 20020806 - COLEMAN III WILLIAM MONROE [US], et al
- US 6591841 B1 20030715 - WHITE JACKIE LEE [US], et al
- US 6695924 B1 20040224 - DUBE MICHAEL FRANCIS [US], et al
- US 2004173228 A1 20040909 - COLEMAN WILLIAM MONROE [US]
- US 2004250821 A1 20041216 - PERFETTI THOMAS ALBERT [US], et al
- US 5234008 A 19930810 - FAGG BARRY S [US]

- US 4534372 A 19850813 - WHITE JACKIE L [US]
- US 4596259 A 19860624 - WHITE JACKIE L [US], et al
- US 23339905 A 20050922
- US 35191906 A 20060210
- US 6083527 A 20000704 - THISTLE ROBERT [US]
- US 2006210488 A1 20060921 - JAKUBOWSKI HENRYK P [US]
- US 2006228308 A1 20061012 - CUMMINS BARRY W [US], et al
- US 4148325 A 19790410 - SOLOMON GRAEME R, et al
- US 6510855 B1 20030128 - KORTE KEVIN [US], et al
- US 6834654 B2 20041228 - WILLIAMS JONNIE R [US]
- US 2006198873 A1 20060907 - CHAN SHING Y [US], et al
- US 4821749 A 19890418 - TOFT HOWARD C [US], et al
- US 787611 A 19050418 - DANIELS JOHN L JR [US]
- US 1086306 A 19140203 - OELENHEINZ THEODOR [DE]
- US 1437095 A 19221128 - ALWIN DELLING
- US 1757477 A 19300506 - SAMUEL ROSENHOCH
- US 2122421 A 19380705 - HAWKINSON ALFRED T
- US 2148147 A 19390221 - HERMANN BAIER
- US 2170107 A 19390822 - HERMANN BAIER
- US 2274649 A 19420303 - HERMANN BAIER
- US 2770239 A 19561113 - ROMERO PRATS JOSE, et al
- US 3612065 A 19711012 - ROSEN WILLIAM E
- US 3851653 A 19741203 - ROSEN W
- US 3889689 A 19750617 - ROSEN WILLIAM E
- US 4143666 A 19790313 - RAINER NORMAN B, et al
- US 4194514 A 19800325 - CAMPBELL RAMSEY G [US]
- US 4366824 A 19830104 - RAINER NORMAN B, et al
- US 4388933 A 19830621 - RAINER NORMAN B, et al
- US 4641667 A 19870210 - SCHMEKEL GERALD [DE], et al
- WO 9631255 A1 19961010 - GIOLVAS GEORGE [GR]
- US 2004118422 A1 20040624 - LUNDIN JORGEN [SE], et al
- US 4607479 A 19860826 - LINDEN GUENTHER [SE]
- US 4631899 A 19861230 - NIELSEN BERGE D [DK]
- US 5346734 A 19940913 - WYDICK JR RICHARD A [US]
- US 6162516 A 20001219 - DERR DEDRIC M [US]
- US 2005061339 A1 20050324 - HANSSON HENRI [SE], et al
- US 5167244 A 19921201 - KJERSTAD RANDY E [US]
- US 7014039 B2 20060321 - HENSON JANE COTTRELL [US], et al
- US 2007095356 A1 20070503 - WINTERSON WARREN D [US], et al
- US 2007062549 A1 20070322 - HOLTON DARRELL E JR [US], et al
- WO 2007057789 A2 20070524 - PHILIP MORRIS PROD [CH]
- WO 2007057791 A2 20070524 - PHILIP MORRIS PROD [CH]
- US 46162806 A 20060801
- LEFFINGWELL; R. J. REYNOLDS ET AL.: "Tobacco Flavoring for Smoking Products", 1972, TOBACCO COMPANY
- SANTHOSH ET AL., PHYTOMEDICINE, vol. 12, 2005, pages 216 - 220
- RADZUAN ET AL., PORIM BULLETIN, vol. 39, 1999, pages 33 - 38
- GUTCHO, MICROCAPSULES AND MICROENCAPSULATION TECHNIQUES, 1976
- GUTCHO, MICROCAPSULES AND OTHER CAPSULES ADVANCES SINCE 1975, 1979
- KONDO, MICROCAPSULE PROCESSING AND TECHNOLOGY, 1979
- IWAMOTO ET AL., AAPS PHARM. SCI. TECH., vol. 3, no. 3, 2002, pages 25
- THE EFSA JOURNAL, vol. 85, 2004, pages 1 - 32
- DAVIS ET AL.: "Tobacco Production, Chemistry and Technology", 1999
- NESTOR ET AL., BEITRAGE TABAKFORSCH. INT., vol. 20, 2003, pages 467 - 475
- ROTON ET AL., BEITRAGE TABAKFORSCH. INT., vol. 21, 2005, pages 305 - 320
- STAAF ET AL., BEITRAGE TABAKFORSCH. INT., vol. 21, 2005, pages 321 - 330
- TAKAHASHI ET AL., ORAL MICROBIOLOGY AND IMMUNOLOGY, vol. 19, no. 1, 2004, pages 61 - 64

Cited by

WO2016162420A1; US10736350B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009015142 A2 20090129; WO 2009015142 A3 20090827; WO 2009015142 A8 20090611; WO 2009015142 A8 20100128;
 CN 101873809 A 20101027; CN 101873809 B 20141112; DK 2377413 T3 20170501; EP 2173200 A2 20100414; EP 2173200 B1 20171115;
 EP 2179666 A2 20100428; EP 2179666 A3 20100922; EP 2179666 B1 20120829; EP 2377413 A1 20111019; EP 2377413 B1 20170301;
 JP 2010534475 A 20101111; JP 5339635 B2 20131113

DOCDB simple family (application)

US 2008070755 W 20080722; CN 200880100282 A 20080722; DK 11157884 T 20080722; EP 08796428 A 20080722; EP 10152287 A 20080722;
 EP 11157884 A 20080722; JP 2010518333 A 20080722