

Title (en)
Method and apparatus for depleting tobacco ribs of nitrate

Title (de)
Verfahren und Vorrichtung zum Abreichern von Nitrat aus Tabakrippen

Title (fr)
Méthode et appareil pour appauvrir en nitrate les côtes de tabac

Publication
EP 0764408 A3 19980204 (DE)

Application
EP 96111618 A 19960718

Priority
DE 19535587 A 19950925

Abstract (en)
[origin: EP0764408A2] A process and assembly denitrifies dried tobacco leaf (R, R') in Burley rib form which is: (a) inserted into the chamber within a housing (9), (b) brought into contact with a solvent (12), and (c) then discharged from the housing (9). The novelty is that: (d) the housing chamber is pressurised and; (e) the tobacco leaf (R, R') is transported through the chamber and solvent bath (12) by a helical conveyor (2). Also claimed is that the solvent (12) is water and that the chamber is heated to between 100-130 degrees C., pref. 118 degrees C. The tobacco is passed through the chamber (9) in a continuous process in which there is constant exchange of the water (12) which consists in the chamber of a liq. phase (12), and the gaseous phase (13) which is introduced to the chamber. The tobacco residence period in the chamber is adjusted by regulation of the conveyor rotation speed. The ratio of the mass flow of dry tobacco in Kg to that of the solvent in Kg is in the range 0.5-0.031, pref. 0.25. The tobacco is subsequently subjected to a further rinsing under a water shower. The pressure maintained in the chamber is 1.5 to 3.0 bar, pref. approx. 1.9 bar.

IPC 1-7
A24B 15/24

IPC 8 full level
A24B 15/24 (2006.01)

CPC (source: EP US)
A24B 15/24 (2013.01 - EP US)

Citation (search report)

- [X] US 5360022 A 19941101 - NEWTON DONALD A [US], et al
- [X] US 3575178 A 19710420 - STEWART GRANT MATHEWS
- [X] GB 914473 A 19630102 - FMC CORP
- [A] EP 0057979 A2 19820818 - TABAC FAB REUNIES SA [CH]
- [A] US 5230354 A 19930727 - SMITH LEIGH A B [US], et al
- [A] GB 2140270 A 19841128 - BROWN & WILLIAMSON TOBACCO & DE 3419655 C2 19880721

Cited by
CN104886752A

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 0764408 A2 19970326; EP 0764408 A3 19980204; EP 0764408 B1 20010905; AT E205057 T1 20010915; AU 6580696 A 19970327; AU 705244 B2 19990520; BR 9604293 A 19980526; DE 19535587 A1 19970327; DE 19535587 C2 19980122; DE 59607619 D1 20011011; ES 2162963 T3 20020116; US 5791353 A 19980811

DOCDB simple family (application)
EP 96111618 A 19960718; AT 96111618 T 19960718; AU 6580696 A 19960924; BR 9604293 A 19960924; DE 19535587 A 19950925; DE 59607619 T 19960718; ES 96111618 T 19960718; US 71321596 A 19960912