

Title (en)  
TOBACCO EXPANSION SYSTEM (TES)

Title (de)  
TABAEXPANSIONSSYSTEM (TES)

Title (fr)  
SYSTÈME D'EXPANSION DE TABAC (TES)

Publication  
**EP 3771349 A1 20210203 (EN)**

Application  
**EP 19404004 A 20190730**

Priority  
EP 19404004 A 20190730

Abstract (en)  
An apparatus and method for increasing specific volume and moisture content of shredded tobacco material by steam and/or water. Apparatus consists of a cone-shaped horizontal (5) and vertical tubes (2). Material (T) is introduced into upright steam jet flow (7/7') and consequently, tobacco (T) is accelerated towards to lie down tube (5). At the end of the vertical tube (2), the tobacco (T) is contacted by horizontal steam jet flow (12). Deflected flow path of tobacco results in impregnation of steam into the tobacco homogeneously and increase the water content. Furthermore, high exit temperature of the material increases the performance of a dryer.

IPC 8 full level  
**A24B 5/16** (2006.01); **A24B 3/18** (2006.01)

CPC (source: EP)  
**A24B 5/16** (2013.01); **A24B 3/182** (2013.01)

Citation (applicant)

- US 4523598 A 19850618 - WEISS ARNO [DE], et al
- US 6397851 B1 20020604 - PLUCKHAHN FRANK [DE], et al
- US 4513758 A 19850430 - HENZELIN BERNARD [CH], et al
- US 4407306 A 19831004 - HIBBITTS CHARLES H [US]
- US 4211243 A 19800708 - AKAO TAKESHI [JP], et al

Citation (search report)

- [AD] US 4523598 A 19850618 - WEISS ARNO [DE], et al
- [A] US 4235249 A 19801125 - PSARAS JOHN D [US], et al
- [A] EP 0484899 A1 19920513 - JAPAN TOBACCO INC [JP]
- [A] GB 2155302 A 19850925 - KOREA GINSENG & TOBACCO RES

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3771349 A1 20210203; EP 3771349 B1 20240417**

DOCDB simple family (application)  
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