

Title (en)  
DRYING APPARATUS

Title (de)  
TROCKNUNGSVORRICHTUNG

Title (fr)  
APPAREIL DE SÉCHAGE

Publication  
**EP 2991509 A2 20160309 (EN)**

Application  
**EP 14711576 A 20140313**

Priority  
• GB 201307860 A 20130501  
• GB 2014050763 W 20140313

Abstract (en)  
[origin: GB2513609A] A rotary drying apparatus 100 for drying a fibrous or granular material (e.g. tobacco leaves) is described. The apparatus provides a first cylindrical drum 5 having an inlet for introducing material into the drum and an outlet, a second cylindrical drum 6 having an inlet and an outlet through which process gas and dried material is discharged after passing through the first and then the second drum, the first drum and the second drum each having an axis of rotation at an angle to the horizontal and each being arranged to rotate about their respective axes. There is provided an air inlet fan 11 between the first and second cylindrical drums arranged to urge process gas into the first and second cylindrical drums; for the first drum in a counter-current direction 12 relative to the product flow and for the second drum in a concurrent direction 14. Preferably, the inclination angle of the drums is 2-8 degrees and parameters like air flow, rotation and temperature are independently regulated for each respective drum. The apparatus may be mechanically sealed to minimize leakage of air, e.g. by a rotary air lock, a labyrinth seal or a metering tube seal.

IPC 8 full level  
**A24B 3/04** (2006.01)

CPC (source: EP GB)  
**A24B 3/04** (2013.01 - EP GB); **A24B 9/00** (2013.01 - GB); **F26B 17/205** (2013.01 - GB)

Citation (search report)  
See references of WO 2014177833A2

Cited by  
WO2020245378A1

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)  
**GB 201307860 D0 20130612; GB 2513609 A 20141105**; CN 105120693 A 20151202; EP 2991509 A2 20160309; EP 2991509 B1 20170503; HU E034026 T2 20180129; PL 2991509 T3 20171229; WO 2014177833 A2 20141106; WO 2014177833 A3 20141224

DOCDB simple family (application)  
**GB 201307860 A 20130501**; CN 201480021810 A 20140313; EP 14711576 A 20140313; GB 2014050763 W 20140313; HU E14711576 A 20140313; PL 14711576 T 20140313