

Title (en)

Method and apparatus for applying triacetin on a filter material web

Title (de)

Verfahren und Einrichtung zum Auftragen von Triacetin auf eine Filtermaterialbahn

Title (fr)

Méthode et appareil pour appliquer du triacétine sur une bande de matériau filtrant

Publication

EP 1709878 A3 20080528 (DE)

Application

EP 06004607 A 20060307

Priority

DE 102005015877 A 20050406

Abstract (en)

[origin: EP1709878A2] The method involves using spray nozzles (3) to apply triacetin on a conveyed filter material strip used in tobacco processing. The sprayed triacetin are heated with controlled heating amount of provided heaters (31) before being applied onto the filter material strip. The controlled heating amount is determined by comparing the actual heating amount of the heaters with the maximum and minimum heating values of every heater. Independent claims are included for the following: (1) Triacetin application device; and (2) Use of heaters in triacetin application process.

IPC 8 full level

A24D 3/02 (2006.01); **B31C 99/00** (2009.01)

CPC (source: EP US)

A24D 3/022 (2013.01 - EP US); **A24D 3/0295** (2013.01 - EP US)

Citation (search report)

- [DX] DE 4003051 A1 19910808 - HAUNI WERKE KOERBER & CO KG [DE]
- [X] US 3390039 A 19680625 - CAUGHMAN ROSCOE S, et al
- [DA] DE 19959034 A1 20010613 - HAUNI MASCHINENBAU AG [DE]
- [DA] US 4511420 A 19850416 - ARTHUR HUGH M [GB]
- [DA] US 5060664 A 19911029 - SIEMS WOLFGANG [DE], et al
- [DA] DE 4209606 A1 19930930 - HAUNI WERKE KOERBER & CO KG [DE]
- [A] EP 1389433 A1 20040218 - HAUNI MASCHINENBAU AG [DE]
- [A] DE 10157760 A1 20030605 - HAUNI MASCHINENBAU AG [DE]
- [A] US 4447706 A 19840508 - EDER WERNER [DE], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1709878 A2 20061011; **EP 1709878 A3 20080528**; **EP 1709878 B1 20091111**; AT E447861 T1 20091115; CN 1843238 A 20061011; CN 1843238 B 20110518; DE 102005015877 A1 20061012; DE 502006005313 D1 20091224; JP 2006288393 A 20061026; JP 4781869 B2 20110928; PL 1709878 T3 20100430; US 2006229178 A1 20061012

DOCDB simple family (application)

EP 06004607 A 20060307; AT 06004607 T 20060307; CN 200610073251 A 20060406; DE 102005015877 A 20050406; DE 502006005313 T 20060307; JP 2006084517 A 20060327; PL 06004607 T 20060307; US 39757506 A 20060405