

Title (en)

Device for providing filter tow material and device for producing filters

Title (de)

Vorrichtung zum Aufbereiten von Filtertowmaterial sowie Vorrichtung zur Herstellung von Filtern

Title (fr)

Dispositif de préparation d'une mèche de filtre et dispositif de fabrication de filtres

Publication

EP 2292107 B2 20190731 (DE)

Application

EP 10011454 A 20041116

Priority

- DE 10354924 A 20031125
- EP 04797908 A 20041116
- EP 2004012946 W 20041116

Abstract (en)

[origin: US2007157938A1] A device for processing filter tow material used for producing filters for rod-shaped smoking articles such as cigarettes. The device includes a filter tow supply to provide at least two filter tow strips to at least two filter tow guideways. Each of the at least two filter tow strips is directed within the at least two filter tow guideways, respectively. Apparatuses are also provided for processing the filter tow strips. The device includes a separately controllable independent processing apparatus assigned to each filter tow guideway.

IPC 8 full level

A24D 3/02 (2006.01)

CPC (source: EP US)

A24D 3/0204 (2013.01 - EP US); **A24D 3/022** (2013.01 - EP US); **A24D 3/027** (2013.01 - EP US); **A24D 3/0295** (2013.01 - EP US)

Citation (opposition)

Opponent :

- EP 1314363 A1 20030528 - JAPAN TOBACCO INC [JP]
- GB 2265296 A 19930929 - KOERBER AG [DE]
- DE 10155292 A1 20030515 - HAUNI MASCHINENBAU AG [DE]
- US 4507107 A 19850326 - BERGER RICHARD M [US]
- DE 10010176 A1 20010913 - REEMTSMA H F & PH [DE]

Cited by

DE102016205630A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

US 2007157938 A1 20070712; US 7811220 B2 20101012; AT E487394 T1 20101115; CN 102626259 A 20120808; CN 102626259 B 20150603; CN 102626260 A 20120808; CN 102626260 B 20150909; CN 1886070 A 20061227; CN 1886070 B 20120530; DE 10354924 A1 20050630; DE 10354924 B4 20240118; DE 502004011886 D1 20101223; EP 1694146 A1 20060830; EP 1694146 B1 20101110; EP 2213182 A1 20100804; EP 2213182 B1 20130109; EP 2213183 A1 20100804; EP 2213183 B1 20130109; EP 2213184 A1 20100804; EP 2213184 B1 20130109; EP 2292107 A1 20110309; EP 2292107 B1 20130109; EP 2292107 B2 20190731; JP 2007512010 A 20070517; JP 4657218 B2 20110323; PL 1694146 T3 20110429; PL 2213182 T3 20130628; PL 2213183 T3 20130628; PL 2213184 T3 20130628; PL 2292107 T3 20130531; WO 2005058079 A1 20050630

DOCDB simple family (application)

US 58041204 A 20041116; AT 04797908 T 20041116; CN 200480034822 A 20041116; CN 201210071942 A 20041116; CN 201210071945 A 20041116; DE 10354924 A 20031125; DE 502004011886 T 20041116; EP 04797908 A 20041116; EP 10004625 A 20041116; EP 10004626 A 20041116; EP 10004627 A 20041116; EP 10011454 A 20041116; EP 2004012946 W 20041116; JP 2006540280 A 20041116; PL 04797908 T 20041116; PL 10004625 T 20041116; PL 10004626 T 20041116; PL 10004627 T 20041116; PL 10011454 T 20041116