

Title (en)
DEVICE FOR COMBINING GROUPS OF FILTER SEGMENTS FOR PRODUCING MULTI-SEGMENT FILTERS OF THE TOBACCO INDUSTRY,
AND TROUGH DRUM

Title (de)
EINRICHTUNG ZUM ZUSAMMENSTELLEN VON GRUPPEN VON FILTERSEGMENTEN ZUR HERSTELLUNG VON MULTISEGMENTFILTERN
DER TABAKVERARBEITENDEN INDUSTRIE UND MULDENTROMMEL

Title (fr)
DISPOSITIF POUR L'ASSEMBLAGE DE GROUPES DE SEGMENTS DE FILTRE POUR PRODUIRE DES FILTRES MULTISEGMENTS DE
L'INDUSTRIE DU TABAC ET TAMBOUR A AUGES

Publication
EP 1427299 B2 20120725 (DE)

Application
EP 02798702 A 20020831

Priority
• DE 10146019 A 20010918
• DE 10155292 A 20011102
• EP 0209746 W 20020831

Abstract (en)
[origin: DE10155292A1] Each multi-segmented filter (49) has at least two different types of filter segments (6,7). The machine is divided up into a number of independent operating units most of which are arranged in a row so that at least one part of the conveyor elements of two adjacent operating units work together. the conveyor elements are in the form of collector-drums and or transfer drums.

IPC 8 full level
A24C 5/47 (2006.01); **A24D 3/02** (2006.01)

CPC (source: EP US)
A24C 5/478 (2013.01 - EP US); **A24D 3/0287** (2013.01 - EP US)

Citation (opposition)
Opponent :
• EP 1226765 B1 20060412 - HAUNI MASCHINENBAU AG [DE]
• EP 0383970 B1 19931110 - JAPAN TOBACCO INC [JP]
• US 4237778 A 19801209 - BERGER ERICH [DE], et al
• EP 1016350 A2 20000705 - HAUNI MASCHINENBAU AG [DE]

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DE102012215589A1; DE102012201279A1; DE102015110516A1; DE102012106180A1; DE102012224089A1; DE102011085981A1;
EP2713781A2; DE102008010659B3; EP1741350A1; DE102016124052A1; DE102012213338A1; DE102012213338B4; EP2591686A3;
WO2012138241A1; DE102013226296A1; EP2620062A2; EP2745719A1; EP2798967A1; EP3111786A1; US11185106B2; US11937628B2;
EP2591686A2; EP2684472A2; EP2912959A1; DE102014203620A1; DE102017114817A1; EP4000425A1; IT202000027263A1; EP2591686B1;
EP2928327B1; EP2928327A2

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WO 03024256 A2 20030327; WO 03024256 A3 20031204; AT E341231 T1 20061015; AU 2002333779 A1 20030401; CN 1279855 C 20061018;
CN 1555232 A 20041215; DE 10146019 A1 20030403; DE 10155292 A1 20030515; DE 10155292 B4 20140821; DE 50208356 D1 20061116;
EP 1427299 A2 20040616; EP 1427299 B1 20061004; EP 1427299 B2 20120725; ES 2269805 T3 20070401; JP 2005502376 A 20050127;
JP 4630548 B2 20110209; PL 196669 B1 20080131; PL 200020 B1 20081128; PL 367982 A1 20050321; US 2004237972 A1 20041202;
US 8172739 B2 20120508

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DE 10155292 A 20011102; DE 50208356 T 20020831; EP 02798702 A 20020831; ES 02798702 T 20020831; JP 2003528159 A 20020831;
PL 36798202 A 20020831; PL 37783002 A 20020831; US 49016504 A 20040318