

Title (en)
PERFORATION OF FILTER CIGARETTES

Title (de)
PERFORATION VON FILTERZIGARETTEN

Title (fr)
PERFORATION DE CIGARETTES À FILTRE

Publication
EP 2671460 B1 20171018 (DE)

Application
EP 13170196 A 20130603

Priority
DE 102012209536 A 20120606

Abstract (en)
[origin: EP2671460A1] The method involves producing a perforation pattern (4) with perforation holes (104) rotating in a circumferential direction of filter cigarettes (100) by using a perforation device. Another perforation pattern (5) with perforation holes (105) is produced using another perforation device adjacent to the former perforation pattern in a peripheral zone portion of covering paper strips (9) and envelope strips (103) of filter cigarettes, where the former perforation pattern is formed in the circumferential direction of the filter cigarettes. An independent claim is also included for a device for manufacturing filter cigarettes.

IPC 8 full level
A24C 5/00 (2006.01); **A24C 5/60** (2006.01)

CPC (source: EP)
A24C 5/007 (2013.01); **A24C 5/606** (2013.01)

Citation (opposition)
Opponent : G.D S.p.A.
• JP 2004033097 A 20040205 - OKADA YOSHIKI
• US 6367481 B1 20020409 - NICHOLS WALTER A [US], et al
• GB 461129 A 19370211 - THOMAS LEWIS SHEPHERD
• GB 510067 A 19390726 - HERMAN FUERCHTEGOTT REEMTSMA, et al
• EP 0761107 A1 19970312 - HAUNI MASCHINENBAU AG [DE]
• US 4302654 A 19811124 - BENNETT WILLIAM T, et al
• DE 2751522 A1 19780817 - HAUNI WERKE KOERBER & CO KG
• US 5092350 A 19920303 - ARTHUR HUGH M [GB], et al
• US 4240448 A 19801223 - BUCHEGGER JOACHIM [US], et al

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US10076136B2

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

DOCDB simple family (publication)
EP 2671460 A1 20131211; EP 2671460 B1 20171018; CN 103462217 A 20131225; CN 103462217 B 20170808;
DE 102012209536 A1 20131212

DOCDB simple family (application)
EP 13170196 A 20130603; CN 201310223004 A 20130606; DE 102012209536 A 20120606