

Title (en)

FILTER CIGARETTE PRODUCING METHOD, FILTER AND FILTER CIGARETTE

Title (de)

FILTERZIGARETTENHERSTELLUNGSVERFAHREN, FILTER UND FILTERZIGARETTE

Title (fr)

PROCÉDÉ DE PRODUCTION DE CIGARETTES À FILTRE, FILTRE ET CIGARETTE À FILTRE

Publication

**EP 3254570 B1 20230621 (EN)**

Application

**EP 17172762 A 20121126**

Priority

- EP 17172762 A 20121126
- EP 12888733 A 20121126
- JP 2012080465 W 20121126

Abstract (en)

[origin: EP2893820A1] A filter cigarette producing method includes a core forming fiber processing step of adding a plasticizer to core forming fibers (4) having a total fineness of 23000 denier to 70000 denier so as to attain an additive rate of 13% to 40%; a sheath forming fiber processing step of adding a plasticizer to sheath forming fibers (5) having a total fineness of 10000 denier to 47000 denier so as to attain an additive rate of 15% or less, or adding no plasticizer to the sheath forming fibers so as to attain an additive rate of 0%; a hollow filter forming step of forming a hollow filter (11) subsequent to the core forming fiber processing step and the sheath forming fiber processing step in such a manner that the core forming fibers (4) are hardened into a core (11a) including a hole (10) extending from one end surface toward the other end surface, and an outside of the core (11a) is covered with the sheath forming fibers (5) so as to form a sheath (11b), thereby forming the hollow filter (11); and a post-treatment step of conveying the hollow filter (11) through a narrower section that is smaller than a diameter of the hollow filter (11), and greater than a diameter of the core (11a) subsequent to the hollow filter forming step.

IPC 8 full level

**A24D 3/02** (2006.01); **A24D 3/04** (2006.01)

CPC (source: EP US)

**A24D 3/0204** (2013.01 - EP); **A24D 3/0233** (2013.01 - EP); **A24D 3/0279** (2013.01 - EP); **A24D 3/0287** (2013.01 - EP); **A24D 3/0291** (2013.01 - EP US); **A24D 3/04** (2013.01 - EP US)

Citation (examination)

JP 3022624 B2 20000321

Cited by

WO2020089075A1; WO2020089049A1

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 2893820 A1 20150715**; **EP 2893820 A4 20160601**; **EP 2893820 B1 20220720**; EP 3254570 A1 20171213; EP 3254570 B1 20230621; JP 5877570 B2 20160308; JP WO2014080516 A1 20170105; WO 2014080516 A1 20140530

DOCDB simple family (application)

**EP 12888733 A 20121126**; EP 17172762 A 20121126; JP 2012080465 W 20121126; JP 2014548410 A 20121126