Title (en)

Device for producing coaxial filters for smokeable rod shaped articles

Title (de)

Vorrichtung zur Herstellung von Koaxialfiltern für stabförmige Rauchartikel

Title (fr)

Dispositif de fabrication de filtres coaxiales pour des articles à fumer en forme de tiges

Publication

EP 2449896 B1 20160720 (DE)

Application

EP 11187397 A 20111101

Priority

DE 102010043343 A 20101103

Abstract (en)

[origin: EP2449896A1] The device (18) has a filter strand path along which a filter strand (12) is movable towards a cover device (22) in a direction of a longitudinal extension of the strand. The cover device covers the filter strand with a filter tow strip (16). The tow strip is movable towards the cover device in a direction of longitudinal extension along a tow guide path. One of three cut surfaces (18a, 18b, 22a) is arranged downstream to the cover device for connection to an inlet-sided cut surface (34a) of a filter strand manufacturing machine (34) that is provided for processing the tow strip.

IPC 8 full level

A24D 3/02 (2006.01)

CPC (source: EP)

A24D 3/0204 (2013.01); **A24D 3/0233** (2013.01)

Citation (examination)

US 5012829 A 19910507 - THESING RICHARD A [US], et al

Citation (opposition)

Opponent : G.D S.p.A.

- US 5012829 A 19910507 - THESING RICHARD A [US], et al
- EP 1847186 A1 20071024 - HAUNI MASCHINENBAU AG [DE]
- EP 2159473 A2 20100303 - HAUNI MASCHINENBAU AG [DE]
- WO 2005058079 A1 20050630 - HAUNI MASCHINENBAU AG [DE], et al
- GB 2265298 A 19930929 - KOERBER AG [DE]
- US 3744108 A 19730710 - GREVE H
- EP 1847187 A1 20071024 - HAUNI MASCHINENBAU AG [DE]
- EP 0638248 A1 19950215 - PHILIP MORRIS PROD [US]
- JP S5449398 A 19790418 - MITSUBISHI ACETATE CO LTD
- US 3874030 A 19750401 - KNIGHT JACK B

Cited by

EP2883463A1; CN104621712A

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 2449896 A1 20120509; **EP 2449896 B1 20160720**; CN 102578708 A 20120718; CN 102578708 B 20160210; DE 102010043343 A1 20120503; PL 2449896 T3 20161230

DOCDB simple family (application)

EP 11187397 A 20111101; CN 201110462577 A 20111103; DE 102010043343 A 20101103; PL 11187397 T 20111101