

## Title (en)

FIRE-RETARDANT, FIRE-RETARDANT BANDED CIGARETTE PAPER, AND MANUFACTURING METHOD FOR SAME

## Title (de)

FEUERFESTES MATERIAL, FEUERFESTES GEBÄNDERTES ZIGARETTENPAPIER UND HERSTELLUNGSVERFAHREN DAFÜR

## Title (fr)

AGENT IGNIFUGE, PAPIER À CIGARETTES À BANDE IGNIFUGE ET PROCÉDÉ DE FABRICATION DU PAPIER À CIGARETTES

## Publication

**EP 2679722 A4 20150610 (EN)**

## Application

**EP 12749689 A 20120420**

## Priority

- CN 201110393662 A 20111202
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## Abstract (en)

[origin: EP2679722A2] The present invention relates to a fire retardant, a cigarette paper with the fire retardant strip and the method for manufacturing the cigarette paper. The fire retardant comprises 10%-30% film-forming material by weight, 10%-30% filling material by weight and 40%-80% solvent. At least one fire retardant strip is provided on a front side and/or back side of the cigarette paper by printing a fire retardant, and the width of the fire retardant strip is 2-8mm. The present invention relates to the technology of manufacturing a cigarette paper with fire retardant strip, and strip coatings with a distance with each other are printed on the cigarette base paper so that gas permeability is reduced in the area of the strip coatings. When the cigarette naturally burns to the area of the fire retardant strip, the cigarette is self-extinguished as the fire retardant strip absorbs the heat and reduces the entry of the oxygen; when the cigarette burns to the area of the fire retardant strip, if the cigarette is smoked, the oxygen would enter into the cigarette, and the cigarette would continue to burn.

## IPC 8 full level

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## Citation (search report)

- [XYI] US 2004020502 A1 20040205 - TOSAS FUENTES AGUSTIN [ES], et al
- [XYI] WO 2008146159 A2 20081204 - PHILIP MORRIS PROD [CH]
- [XYI] CA 2765295 A1 20101229 - DELFORTGROUP AG [AT]
- [XYI] WO 2009006570 A2 20090108 - SCHWEITZER MAUDUIT INT INC [US], et al
- See references of WO 2012113357A2

## Cited by

WO2019031823A1; EP3636831B1

## Designated contracting state (EPC)

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## DOCDB simple family (application)

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