

Title (en)

Method for inspecting an elongated element made of fibrous material

Title (de)

Verfahren zur Inspektion eines langgestreckten Elements aus Fasermaterial

Title (fr)

Procédé pour inspecter un élément allongé constitué de matière fibreuse

Publication

**EP 2687111 A2 20140122 (EN)**

Application

**EP 13176710 A 20130716**

Priority

- IT BO20120394 A 20120720
- IT BO20120395 A 20120720

Abstract (en)

A method for inspecting an elongated element for smoking articles comprises the steps of: obtaining at least a first profile (2) of a first measurable physical quantity, for example density, and a second profile (4) of a second measurable physical quantity, for example humidity, by means of at least one sensor interacting with the elongated element along the same elongated element; processing at least one of the first profile (2) and the second profile (4) to determine the presence of at least one capsule made of non-fibrous material, for example an aromatising additive inserted inside the elongated element; if the capsule is present, evaluating the intactness of the capsule, comparing the first (2) and the second profile (4) respectively with a first (16, 17) and second threshold reference (21, 22). The method further comprises the steps of moving the first profile (2) and the second profile (4) to an ideal reference position of the capsule along the elongated element; establishing, during the operational functioning, the first threshold reference (16, 17) by statistical processing of the first profile (2); establishing the second threshold reference (21, 22) by statistical processing of the second profile (4), the first and the second statistical processing being performed respectively on moved profiles of a preceding inspection cycle, defined by a predetermined number of inspected elements.

IPC 8 full level

**A24C 5/34** (2006.01); **A24D 3/02** (2006.01)

CPC (source: EP)

**A24C 5/3412** (2013.01); **A24D 3/0295** (2013.01)

Citation (applicant)

WO 2011083406 A2 20110714 - AIGER GROUP AG [CH], et al

Cited by

CN115420759A; KR20180129417A; CN110542398A; CN103954576A; CN105866140A; EP3172976A1; CN106880078A; US9743689B2

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Designated extension state (EPC)

BA ME

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**EP 2687111 A2 20140122**; **EP 2687111 A3 20180214**; **EP 2687111 B1 20190515**; JP 2014059291 A 20140403; JP 6253908 B2 20171227; PL 2687111 T3 20191129

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