

Title (en)

Assembly and method for checking rod-shaped articles from the tobacco processing industry

Title (de)

Anordnung und Verfahren zur Überprüfung von stabförmigen Artikeln der Tabak verarbeitenden Industrie

Title (fr)

Système et procédé de contrôle d'articles en forme de tige de l'industrie de traitement du tabac

Publication

EP 2865282 B1 20180418 (DE)

Application

EP 14182569 A 20140828

Priority

DE 102013217485 A 20130903

Abstract (en)

[origin: JP2015047164A] PROBLEM TO BE SOLVED: To provide an apparatus and method for inspecting a capsule filled with liquid in a filter of cigarettes with filters, in which quality assurance of a rod-shaped article of a tobacco processing industry after completion of processing is ensured, and the article is transferred at a right angle to its axis.SOLUTION: At least one capacitive high-frequency measuring instrument 30 has at least one through passage 40 of sideways-facing with one side or both sides opened extending in the longitudinal direction for a protruded portion 15 across each trough of a rod-shaped article 14 along a transfer path of the article 14. The at least one through passage 40 passes across at least one measurement capacitor 34. Accordingly, the protruded portion 15 of the rod-shaped article 14 crosses a high frequency measurement electromagnetic field of the at least one measurement capacitor 34 on a transfer path passing along the through passage 40.

IPC 8 full level

A24C 5/34 (2006.01)

CPC (source: CN EP)

A24C 5/34 (2013.01 - CN); **A24C 5/3412** (2013.01 - EP)

Citation (opposition)

Opponent : G.D S.p.A.

- DE 2343668 A1 19750306 - HAUNI WERKE KOERBER & CO KG
- DE 2441832 A1 19760311 - HAUNI WERKE KOERBER & CO KG
- DE 3626071 A1 19880211 - HAUNI WERKE KOERBER & CO KG [DE]
- WO 2009099793 A2 20090813 - REYNOLDS TOBACCO CO R [US], et al
- US 2008084220 A1 20080410 - SCHRODER DIERK [DE]
- US 5767686 A 19980616 - KESPOHL PETER [DE]
- WO 0005593 A1 20000203 - LIFE MEASUREMENT INSTR INC [US]
- WO 0247497 A1 20020620 - PHILIP MORRIS PROD [US], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 102013217485 A1 20150305; DE 102013217485 B4 20240926; CN 104413544 A 20150318; EP 2865282 A1 20150429; EP 2865282 B1 20180418; EP 2865282 B2 20240724; JP 2015047164 A 20150316; JP 6442195 B2 20181219; PL 2865282 T3 20181031

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