

Title (en)

Measurement method and measurement assembly for detecting the position of an object in a filter rod conveyed along the longitudinal axis, and machine for the tobacco processing industry

Title (de)

Messverfahren und Messanordnung zur Erfassung der Lage eines Objekts in einem längsaxial geförderten Filterstrang, und Maschine der Tabak verarbeitenden Industrie

Title (fr)

Procédé de mesure et dispositif de mesure pour l'enregistrement de la position d'un objet dans une tige de filtre transportée en direction axiale longitudinale et machine de l'industrie de traitement du tabac

Publication

EP 2769632 B1 20171101 (DE)

Application

EP 14155364 A 20140217

Priority

DE 102013203140 A 20130226

Abstract (en)

[origin: EP2769632A1] The method involves arranging three optical axes mutually around each other around a filter rod (40). The filter rod is irradiated on a casing side. Three separate measuring signals are obtained. Location of an object is determined in two directions perpendicular to the filter rod by the combination of the measurement signals. Deviation of a determined layer to a target layer is determined. Property bad rating of the layer of an object is performed on the basis of comparison of the determined deviation with a threshold value. An independent claim is also included for a measuring arrangement.

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 (opposition)

Opponent : G.D S.p.A.

- EP 1702524 A1 20060920 - HAUNI MASCHINENBAU AG [DE]
- WO 2011083406 A2 20110714 - AIGER GROUP AG [CH], et al
- WO 2012130402 A1 20121004 - HAUNI MASCHINENBAU AG [DE], et al
- US 4986285 A 19910122 - RADZIO ANDRZEJ [US], et al
- EP 1091203 A2 20010411 - BAT CIGARETTENFAB GMBH [DE]
- DE 2732520 A1 19790104 - BAUMGARTNER PAPIERS SA
- EP 1557100 A1 20050727 - HAUNI MASCHINENBAU AG [DE]
- US 4212541 A 19800715 - DUCOMMUN JOEL [CH], et al
- US 4001579 A 19770104 - LEBET JEAN-PIERRE, et al
- DE 102009017963 A1 20101028 - HAUNI MASCHINENBAU AG [DE]
- WO 2009099793 A2 20090813 - REYNOLDS TOBACCO CO R [US], et al
- GB 2149913 A 19850619 - MOLINS PLC

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CN104965495A; US10721959B2; EP3918928B1

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)

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DOCDB simple family (application)

EP 14155364 A 20140217; CN 201410063718 A 20140225; DE 102013203140 A 20130226; PL 14155364 T 20140217