

Title (en)

METHOD AND APPARATUS FOR DETECTING DIRT IN A MOVING FIBRE STREAM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERFASSUNG VON SCHMUTZ IN EINEM BEWEGTEN FASERSTROM

Title (fr)

PROCEDE ET DISPOSITIF DE DÉTECTION DE L'ENCRASSEMENT DANS UN ECOULEMENT DE FIBRES EN DEPLACEMENT

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Abstract (en)

[origin: WO2007051335A1] A method for detecting dirt (S) is proposed in a fibre strand (FS) which is moved in its longitudinal direction (LR), for example a fibre ribbon, a roving or a yarn, in which primary light (PL) is radiated onto the fibre strand (FS), secondary light (SL) which is produced by reflections is detected by means of a line sensor (8) which is oriented transversely with respect to the running direction, line-shaped reproductions (Z1...Z12) of a section (A1...A12) of the fibre strand (FS) which is situated in each case in the detection region of the line sensor (8) are generated one after another at a predefinable clock frequency (TF) in a manner which is based on the detected secondary light (SL), and the line-shaped reproductions (Z1...Z12) are evaluated by means of an evaluation unit (10) for detecting dirt (S). The method is distinguished by the fact that the speed (G) of the fibre strand (FS) is detected continuously and is taken into consideration in the defining of the clock frequency (TF) and/or in the evaluation of the line-shaped reproductions (Z1...Z12). At the same time, a corresponding apparatus is proposed.

IPC 8 full level

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