Title (en)

BELT WITH AN INTEGRATED MONITORING MECHANISM

Title (de)

RIEMEN MIT INTEGRIERTER ÜBERWACHUNG

Title (fr)

COURROIE SURVEILLANCE INTEGREE

Publication

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Application

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Abstract (en)

[origin: WO2004035913A1] The invention relates to a belt (43) comprising at least two fiber strands (41) which are provided with intertwisted synthetic fiber yarns and are aligned in a longitudinal direction for receiving force. Said strands (41) are disposed at a distance from each other along the longitudinal direction of the belt (43) and are embedded in a belt coating (45). At least one of the strands (41) comprises an electrically conductive indicator yarn (44) that is twisted along with the synthetic fiber yarns of the strand (41) and is located outside the center of the fiber bundle (41). The indicator yarn (44) has a breaking elongation (eult,Ind) which is smaller than the breaking elongation (eult,Trag) of individual synthetic fiber yarns of the strand (41) and can be contacted in order to electrically monitor the integrity thereof.

IPC 8 full level

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