

Title (en)  
THREAD DETECTOR

Title (de)  
FADENDETEKTOR

Title (fr)  
DETECTEUR DE FIL

Publication  
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Application  
**EP 02732552 A 20020403**

Priority  
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Abstract (en)  
[origin: US2004188232A1] The invention relates to a thread detector (F) for detecting thread path/halt conditions and/or thread tension. Said detector is provided with a deflector assembly for re-directing the thread, said assembly transmitting the stress on the thread to at least one transducer device (W), which generates a signal and responds to mechanically transmitted stresses. The deflector is also provided with at least one electronic evaluation circuit (6) for deriving output signals, (i1, i2) and with thread guides (8), which are located upstream and downstream of the deflector assembly and define the course of the thread. The deflector assembly comprises a first and second deflector (D1, D2) that lie one behind the other in the course of the thread, one of which transmits the stress from the thread tension and the other the stress from the path/halt conditions to a respective transducer device (W). The deflectors having first and second re-direction surfaces (9, 10), positioned transversely in relation to the thread axis, which together form an angle of <math><180^\circ</math>, (when viewed from the thread axis), whereby said re-direction surface share the deflection of the thread.

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