

Title (en)

WARP-GUARD DEVICE FOR WEAVING MACHINES, WARPING MACHINES AND KNITTING MACHINES

Title (de)

KETTFADENWÄCHTER FÜR WEBMASCHINEN, SCHÄRMASCHINEN UND STRICKMASCHINEN

Title (fr)

DISPOSITIF DE PROTECTION DE CHAÎNE POUR MACHINE À TISSER, MACHINE À TISSER ET MACHINE À TRICOTER

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Application

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Abstract (en)

[origin: WO0153580A1] A warp-guard device for weaving machines, warping machines and knitting machines comprises sensor means (2, 3) for detecting one or more broken yarns (Fr) forming part of a series of yarns (F) lying in the same warp plane (O), monitoring means (10, 12, 13, 14, 15) associated with the sensor means (2, 3) for signalling the broken yarns and stopping the machine. The sensor means (2, 3) are located inside a tubular body (4) located in the vicinity of the yarns (F). The tubular body (4) is connected to suction means (6) and is provided with at least one longitudinal slit (7, 8) for sucking through it at least one of the ends (F1, F2) of one or more broken yarns (Fr) intended to interact with the sensor means (2, 3). The sensor means (2, 3) comprise an array of opto-electronic elements (2) able to emit light beams (B) and facing corresponding opto-electronic elements (3) able to receive the light beams and signal the presence of the end of a broken yarn located between them. The receiving opto-electronic elements (2) are associated with corresponding signalling opto-electronic elements (9) for emitting light signals (W) in the event of broken yarns being detected.

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