

Title (en)

Weft stock detector for weft feeders

Title (de)

Fadenreservedetektor für Schussfadensliefer Vorrichtungen

Title (fr)

Détecteur de la réserve de fil pour des fournisseurs de fil de trame

Publication

EP 1801273 B1 20100707 (EN)

Application

EP 06021600 A 20061016

Priority

IT TO20050893 A 20051222

Abstract (en)

[origin: EP1801273A2] The detector is applied to weft feeders provided with a stationary drum (12) on which yarn loops are wound to form a weft stock (RT). Three feeler arms (22, 24, 26) are hinged by side of the drum about respective axes (28, 30, 32) and are biased with their respective contact ends (34a) against the drum for swinging between an active lifted position and a lowered resting position in relation to the presence/absence of loops on the drum. Photoelectric cells (42) arranged to detect the movements of the feeler arms each comprise an emitting diode (47) generating a stream of photons through an elongated narrow slot (48) extending radially, and a photodiode (50) in front of the slot (48). The feeler arm has a shield (52) insertable between the diode and the photodiode and delimited frontally by a rectilinear edge (54) aligned to the outer edge of the slot with the feeler arm in its resting position, in order to obscure the slot.

IPC 8 full level

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