

Title (en)

METHOD FOR MEASURING THE CONSUMPTION OF YARN FOR ACCUMULATION WEFT FEEDERS

Title (de)

VERFAHREN ZUR MESSUNG DES FADENVERBRAUCHS FÜR SPEICHERSCHUSSFADENZUFÜHRVORRICHTUNGEN

Title (fr)

PROCÉDÉ DE MESURE DE LA CONSOMMATION DE FIL POUR FOURNISSEURS DE TRAME À ACCUMULATION

Publication

EP 3613884 A1 20200226 (EN)

Application

EP 19183859 A 20190702

Priority

IT 201800007909 A 20180807

Abstract (en)

A method for measuring the consumption of yarn for accumulation weft feeders wherein a control unit (CU) of an accumulation weft feeder (10) calculates the amount of consumed yarn C_m in a time interval comprised between an instant t_1 and an instant t_2 on the basis of the following formula: $C_m = ERQ1 - ERQ2 + IPC \cdot C$ where ERQ1 is the estimated reserve amount on the drum (12) of the feeder at the instant t_1 , ERQ2 is an estimated reserve amount that is present on the drum (12) at the instant t_2 , IPC is the number of winding pulses (WP) counted in the time interval between the instant t_1 and the instant t_2 , and C is the length of the loop or fraction of loop wound on the drum. The estimated reserve amounts at the instants t_1 and t_2 are calculated on the basis of the number of winding pulses (WP) and of unwinding pulses (UWP), the latter being counted by an unwinding sensor (S3) and being generated from the instant when the weft reserve sensor (S2) switches its own state.

IPC 8 full level

D04B 15/48 (2006.01)

CPC (source: EP)

D04B 15/486 (2013.01)

Citation (applicant)

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Citation (search report)

- [A] EP 2907906 A1 20150819 - LGL ELECTRONICS SPA [IT]
- [A] EP 2592032 A1 20130515 - B TSR INT SPA [IT]

Designated contracting state (EPC)

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Designated extension state (EPC)

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