

Title (en)

WEFT KNITTING MACHINE, AND METHOD FOR DETECTING ABNORMAL VIBRATIONS IN THE WEFT KNITTING MACHINE

Title (de)

KULIERWIRKMASCHINE UND VERFAHREN ZUR ERKENNUNG ABNORMALER VIBRATIONEN BEI EINER KULIERWIRKMASCHINE

Title (fr)

MÉTIER À MAILLES CUEILLIES ET PROCÉDÉ DE DÉTECTION DE VIBRATIONS ANORMALES DANS LE MÉTIER À MAILLES CUEILLIES

Publication

EP 2228475 A4 20130925 (EN)

Application

EP 08864769 A 20081211

Priority

- JP 2008003721 W 20081211
- JP 2007330646 A 20071221

Abstract (en)

[origin: EP2228475A1] To provide a flat knitting machine capable of detecting, at high sensitivity, the abnormal vibration involved in the abnormal contact of the carriage and the knitting needle, and a method of detecting abnormal vibration. The flat knitting machine includes a needle bed 1 in which a plurality of knitting needles is arranged in parallel, and a carriage 2 for moving the knitting needles forward and backward by reciprocating on the needle bed 1. The carriage 2 includes vibration detection means (vibration sensor 4), which vibration detection means detects vibration that occurs in a direction intersecting a traveling direction of the carriage 2. Error judgment means determines presence and absence of abnormal vibration by abnormal contact of the carriage 2 and the knitting needle based on such a detection result. The abnormal vibration can be detected distinguished from the vibration involved in the normal knitting even if the traveling speed of the carriage 2 is high.

IPC 8 full level

D04B 35/18 (2006.01); **D04B 15/96** (2006.01)

CPC (source: EP)

D04B 15/96 (2013.01); **D04B 35/18** (2013.01)

Citation (search report)

- [A] US 3838584 A 19741001 - GRASER A
- [A] DE 2331838 A1 19740117 - DUBIED & CIE SA E
- See references of WO 2009081532A1

Cited by

CN110565259A; DE102019109426A1; WO2018183824A1; US10655254B2; US11286594B2

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DOCDB simple family (publication)

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DOCDB simple family (application)

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