

Title (en)  
Textile machine

Title (de)  
Textilmaschine

Title (fr)  
Machine textile

Publication  
**EP 1795478 B1 20110330 (EN)**

Application  
**EP 06024231 A 20061122**

Priority  
JP 2005355302 A 20051208

Abstract (en)  
[origin: EP1795478A1] The present invention relates to a textile machine that eliminates yarn defects present in a traveling yarn. When configured to determine a yarn speed utilizing a speed such as a drum rotation speed which is not proportional to the real yarn speed, the textile machine may determine a value deviating from the actual yarn speed to be the correct yarn speed. When determining a yarn length on the basis of this yarn speed information, a yarn defect detecting device erroneously determines for a yarn defect. A winding unit 1 includes a yarn speed sensor 7 that directly detects the yarn speed of a traveling yarn 3, a yarn defect detecting device 8 that detects a yarn defect in the traveling yarn 3, and a traverse drum 10 that winds the yarn 3 having passed through the yarn sensor 7 and yarn defect detecting device 8. The yarn defect detecting device 8 includes a data converting section 82b that converts yarn thickness time varying data DT obtained in a time-oriented manner into yarn thickness length varying data DL on the basis of the detected value of the yarn speed and a yarn defect determining section 82b that determines for a yarn defect on the basis of the yarn thickness length varying data DL.

IPC 8 full level  
**B65H 61/00** (2006.01); **B65H 63/06** (2006.01)

CPC (source: EP)  
**B65H 61/005** (2013.01); **B65H 63/062** (2013.01); **B65H 2701/31** (2013.01)

Citation (examination)  
DE 19900581 A1 20000727 - UNIV DRESDEN TECH [DE]

Cited by  
CN105263837A; CN113727928A; US9845220B2; WO2014198733A1

Designated contracting state (EPC)  
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**EP 1795478 A1 20070613**; **EP 1795478 B1 20110330**; DE 602006020975 D1 20110512; JP 2007153607 A 20070621

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