

Title (en)  
Textile machine

Title (de)  
Textilmaschine

Title (fr)  
Machine textile

Publication  
**EP 1795478 A1 20070613 (EN)**

Application  
**EP 06024231 A 20061122**

Priority  
JP 2005355302 A 20051208

Abstract (en)  
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

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Citation (applicant)  
• EP 1521085 A1 20050406 - SAURER GMBH & CO KG [DE]  
• EP 1249422 A2 20021016 - SCHLAFHORST & CO W [DE]  
• EP 1553037 A1 20050713 - MURATA MACHINERY LTD [JP]  
• DE 19900581 A1 20000727 - UNIV DRESDEN TECH [DE]  
• US 5592849 A 19970114 - NAKADE KAZUHIKO [JP], et al

Citation (search report)  
• [X] EP 1521085 A1 20050406 - SAURER GMBH & CO KG [DE]  
• [XY] EP 1249422 A2 20021016 - SCHLAFHORST & CO W [DE]  
• [Y] EP 1553037 A1 20050713 - MURATA MACHINERY LTD [JP]  
• [A] US 5592849 A 19970114 - NAKADE KAZUHIKO [JP], et al  
• [A] DE 2918740 A1 19800320 - ZELLWEGE USTER AG  
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