

Title (en)
Textile machine

Title (de)
Textilmaschine

Title (fr)
Machine textile

Publication
EP 1659082 A2 20060524 (EN)

Application
EP 05022608 A 20051017

Priority
JP 2004335663 A 20041119

Abstract (en)
The present invention allows a yarn splicing carriage to efficiently remove a yarn defect and perform a yarn splicing operation without a waste of a yarn, in accordance with the situation in which the yarn defect has occurred. A textile machine comprises a plurality of yarn processing units 2 and a yarn splicing carriage 3 that can run in the direction in which the yarn processing units 2 are arranged. Each of the yarn processing units 2 comprises a yarn clearer 52 that can detect a yarn defect and determine its type. The yarn splicing carriage 3 can acquire information on the presence or absence and type of a yarn defect and the diameter of a winding package 45 for each yarn processing unit 2. The yarn splicing carriage 3 performs a yarn end finding operation on the yarn processing unit 2 in which a yarn defect is occurring. In this case, depending on the type of the detected yarn defect and the diameter of the winding package 45 measured upon the occurrence of the yarn defect, the yarn splicing carriage 3 varies the amount of time from when a suction mouth 46 approaches to the winding package 45 and then starts suction until when the suction mouth 46 guides a yarn to a splicing device 43 as well as the speed of a reverse rotation roller 55 that rotates the winding package 45 in a yarn unwinding direction. Subsequently, the yarn splicing device 43 removes the yarn defect and splices the spun yarn (Fig.2).

IPC 8 full level
B65H 67/08 (2006.01); **B65H 54/26** (2006.01); **B65H 63/06** (2006.01)

CPC (source: EP)
B65H 54/26 (2013.01); **B65H 63/062** (2013.01); **B65H 67/081** (2013.01); **D01H 15/013** (2013.01); **B65H 2701/31** (2013.01)

Cited by
CN111661706A; CH712367A1; EP3524556A1; EP3239370A1; CH712385A1; CN103569792A; EP2690047A3; CN106029540A; CN109715870A; CN112960472A; EP4177195A1; IT202100028001A1; EP3363757A1; CN103014936A; EP2573231A3; EP3385415A1; CN108691049A; US10323340B2; US10246292B2; WO2015049293A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1659082 A2 20060524; **EP 1659082 A3 20070704**; JP 2006143395 A 20060608; JP 4120635 B2 20080716

DOCDB simple family (application)
EP 05022608 A 20051017; JP 2004335663 A 20041119