

Title (en)

Method for controlling work vehicles in yarn processing apparatus, and yarn processing apparatus

Title (de)

Verfahren zur Steuerung von Arbeitsfahrzeugen bei Garnverarbeitungsverfahren und Garnverarbeitungsgerät

Title (fr)

Procédé de contrôle de véhicules de travail dans un appareil de traitement de fil, et appareil de traitement de fil

Publication

**EP 1840250 A3 20110427 (EN)**

Application

**EP 07003667 A 20070222**

Priority

JP 2006088081 A 20060328

Abstract (en)

[origin: EP1840250A2] A method for controlling work vehicles in a yarn processing apparatus allows work vehicles to travel and move efficiently to execute service processes on units with a high work efficiency even if two units located at an mutually interfering position issue service processes, respectively. The area in which approaching work vehicles 4a, 4b may interfere with each other and fail to simultaneously execute an operational process is defined as the "interfering area" on the basis of the width dimensions of the unit 2 and the work vehicles 4a, 4b. When the two units 2 simultaneously issue service process requests, respectively, the method determines, before traveling movement of the work vehicles 4a, 4b, whether the units 2 are in the mutual interference state, on the basis of the interfering area. Upon determining that the units 2 are in the mutual interference state, the method measures the distances from the current positions of the work vehicles 4a, 4b to the respective process requesting units 2, 2. Then, one of the work vehicles 4a, 4b which is closer to the corresponding process requesting unit 2 is preferentially allowed to execute a service process.

IPC 8 full level

**D01H 4/48** (2006.01); **B65H 54/26** (2006.01); **D01H 9/10** (2006.01); **D01H 15/013** (2006.01); **D01H 13/14** (2006.01)

CPC (source: EP)

**B65H 54/26** (2013.01); **D01H 13/005** (2013.01); **D01H 13/145** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [I] EP 1600413 A2 20051130 - MURATA MACHINERY LTD [JP]
- [A] DE 10137081 A1 20030213 - RIETER INGOLSTADT SPINNEREI [DE]
- [A] US 4901246 A 19900213 - MEYER URS [CH], et al
- [A] DE 3717803 A1 19881208 - ZINSER TEXTILMASCHINEN GMBH [DE]
- [A] JP S63152426 A 19880624 - HOWA MACHINERY LTD

Cited by

CN108796689A

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1840250 A2 20071003**; **EP 1840250 A3 20110427**; **EP 1840250 B1 20120425**; JP 2007262607 A 20071011

DOCDB simple family (application)

**EP 07003667 A 20070222**; JP 2006088081 A 20060328