

Title (en)

YARN WINDING SYSTEM, AUTOMATIC WINDER, SPINNING FRAME AND YARN WINDING METHOD

Title (de)

GARNWICKELSYSTEM, AUTOMATISCHER WICKLER, SPINNRAHMEN UND GARNWICKELVERFAHREN

Title (fr)

SYSTÈME DE BOBINAGE DE FIL, BOBINOIR AUTOMATIQUE, MÉTIER À FILER ET PROCÉDÉ DE BOBINAGE DE FIL

Publication

EP 3305700 A4 20190306 (EN)

Application

EP 16802921 A 20160412

Priority

- JP 2015115216 A 20150605
- JP 2016061783 W 20160412

Abstract (en)

[origin: EP3305700A1] A yarn winding system 1 includes an automatic winder 4 configured to wind yarn from a yarn supply bobbin to form a package, and a roving frame 2 and a spinning frame 3 each configured to perform a spinning process at a previous step for the automatic winder 4. The automatic winder 4 includes a yarn monitoring unit 45 configured to detect a state of the yarn travelling and a transmission unit 41x configured to transmit information on a monitoring result of the yarn monitoring unit 45 to the roving frame 2 and the spinning frame 3. The roving frame 2 and the spinning frame 3 include a receiving unit 21x and 31x, respectively, configured to receive the information on the monitoring result of the yarn monitoring unit 45 from the automatic winder 4.

IPC 8 full level

B65H 67/06 (2006.01); **B65H 63/06** (2006.01); **D01H 9/18** (2006.01); **D01H 13/14** (2006.01)

CPC (source: EP)

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Citation (search report)

- [XYI] EP 2108723 A2 20091014 - MURATA MACHINERY LTD [JP]
- [Y] EP 2455318 A1 20120523 - MURATA MACHINERY LTD [JP]
- [Y] JP 2011020836 A 20110203 - MURATA MACHINERY LTD
- See references of WO 2016194484A1

Cited by

EP4163242A1; WO2023057835A1; CN112204179A; EP3587637A1; EP3587632A1; CN110629335A; EP4306694A1; US11319649B2; WO2019227241A1; EP3984935A1; IT202000024097A1; EP3581687A1

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DOCDB simple family (publication)

EP 3305700 A1 20180411; **EP 3305700 A4 20190306**; **EP 3305700 B1 20210609**; CN 107531444 A 20180102; CN 107531444 B 20200731; JP 2017001781 A 20170105; WO 2016194484 A1 20161208

DOCDB simple family (application)

EP 16802921 A 20160412; CN 201680023457 A 20160412; JP 2015115216 A 20150605; JP 2016061783 W 20160412