

Title (en)
YARN WINDING SYSTEM

Title (de)
GARNWICKELSYSTEM

Title (fr)
SYSTÈME DE BOBINAGE DE FIL

Publication
EP 3753888 A1 20201223 (EN)

Application
EP 20180496 A 20200617

Priority
JP 2019114057 A 20190619

Abstract (en)
A yarn winding system (1) includes: one spinning frame (3) including a plurality of spinning units (42) aligned in one direction; a plurality of automatic winders (4) each including a plurality of winding units (42) and a machine control device (41) configured to control the winding units (42); and a conveying device (5) configured to convey yarn feeding bobbins (11) formed in the one spinning frame (3) to the automatic winders (4) and convey used yarn feeding bobbins (11) used in the automatic winders (4) to the spinning frame (3). The one spinning frame (3) and the automatic winders (4) are aligned along an alignment direction (D1). The conveying device (5) conveys yarn feeding bobbins (11) from the one spinning frame (3) to each one of the automatic winders (4) without conveying the yarn feeding bobbins (11) through others of the automatic winders (4).

IPC 8 full level
B65H 67/06 (2006.01); **D01H 9/18** (2006.01)

CPC (source: CN EP)
B65H 67/06 (2013.01 - CN EP); **B65H 67/064** (2013.01 - CN); **B65H 67/068** (2013.01 - CN); **D01H 9/18** (2013.01 - EP);
B65H 2701/31 (2013.01 - CN EP)

Citation (applicant)
JP H06191734 A 19940712 - SCHLAFHORST & CO W

Citation (search report)
• [A] US 4846618 A 19890711 - MATSUI ISAMU [JP]
• [A] JP H0248369 A 19900219 - MURATA MACHINERY LTD
• [A] US 5509614 A 19960423 - NISHIKAWA KAZUO [JP], et al
• [A] EP 0392278 A1 19901017 - ZINSER TEXTILMASCHINEN GMBH [DE]
• [A] US 4576341 A 19860318 - MATSUI ISAMU [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3753888 A1 20201223; **EP 3753888 B1 20220427**; CN 112110290 A 20201222; CN 112110290 B 20230929; JP 2021001405 A 20210107

DOCDB simple family (application)
EP 20180496 A 20200617; CN 202010523981 A 20200610; JP 2019114057 A 20190619