

Title (en)
YARN PRODUCTION SYSTEM

Title (de)
GARNHERSTELLUNGSSYSTEM

Title (fr)
SYSTÈME DE PRODUCTION DE FIL

Publication
EP 3666701 A1 20200617 (EN)

Application
EP 19207674 A 20191107

Priority
JP 2018230651 A 20181210

Abstract (en)
Static electricity generated due to contact of yarns with a metal member is suppressed during yarn threading in a yarn production system. A yarn production system in which yarns Y made of synthetic resin and spun out from a spinning apparatus are wound by a winding device includes: a metal member 32 which is used in yarn threading of threading the yarns Y spun out from the spinning apparatus to the winding device and members along a yarn path and makes contact with the yarns Y; and an insulator 33 which prevents static electricity generated in the metal member 32 due to contact with the yarns Y from escaping from the metal member 32 to a ground plane.

IPC 8 full level
B65H 57/00 (2006.01); **D01D 5/02** (2006.01); **D01D 5/11** (2006.01)

CPC (source: CN EP)
B65H 57/14 (2013.01 - CN); **B65H 57/16** (2013.01 - EP); **B65H 57/24** (2013.01 - CN); **D01D 5/02** (2013.01 - EP); **D01D 13/02** (2013.01 - EP); **B65H 2701/3132** (2013.01 - EP)

Citation (applicant)

- JP 6291049 B2 20180314
- JP 2018066088 A 20180426 - TMT MACHINERY INC

Citation (search report)

- [A] WO 2018193803 A1 20181025 - TMT MACHINERY INC [JP] & EP 3613687 A1 20200226 - TMT MACHINERY INC [JP]
- [AD] JP 6291049 B2 20180314
- [AD] JP 2018066088 A 20180426 - TMT MACHINERY INC & EP 3312121 A1 20180425 - TMT MACHINERY INC [JP]

Cited by
EP4169860A1; EP4190734A1; EP4378869A1

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 3666701 A1 20200617; **EP 3666701 B1 20210331**; CN 111285184 A 20200616; CN 111285184 B 20230321; JP 2020094290 A 20200618; JP 7136676 B2 20220913

DOCDB simple family (application)
EP 19207674 A 20191107; CN 201911111693 A 20191114; JP 2018230651 A 20181210