

Title (en)
Yarn conveying system for circular knitting machines

Title (de)
Garnfördervorrichtung für Rundstrickmaschinen

Title (fr)
Système de transport de fil pour machines à tricoter circulaires

Publication
EP 2602366 A1 20130612 (EN)

Application
EP 11191962 A 20111205

Priority
EP 11191962 A 20111205

Abstract (en)
A yarn conveying system for a circular knitting machine (10), includes at least one yarn conveying tray (20) and a control unit (40) electrically connected to the circular knitting machine (10) and the yarn conveying tray (20). The circular knitting machine (10) has a needle cylinder (11) and at least one yarn feeder (12) arranged annularly on the needle cylinder (11). The yarn conveying tray (20) is wound by at least two separate yarns (30) and includes a driving device (23) to drive the yarn conveying tray (20) rotating so that the yarns (30) are supplied via a yarn conveying path (R) to the yarn feeder (12). The control unit (40) generates a yarn feeding signal (S1) to the circular knitting machine (10) to control yarn feeding speed and a driving signal (S2) to the driving device (23) to control rotational speed of the yarn conveying tray (20). Thus users can operate the control unit (40) to control speed of the yarns supplied from the yarn conveying tray (20) to the yarn feeder (12).

IPC 8 full level
D04B 15/44 (2006.01)

CPC (source: EP)
D04B 15/44 (2013.01)

Citation (search report)
• [X] DE 10003184 A1 20010809 - MAYER MALIMO TEXTILMASCHF [DE]
• [X] US 5423197 A 19950613 - ROSER ERICH [DE]
• [X] US 5388747 A 19950214 - CHEN JEN-HUI [TW]
• [A] DE 19500256 A1 19950713 - OJANPERAE HEIMO [FI]

Cited by
CN109252281A

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 2602366 A1 20130612

DOCDB simple family (application)
EP 11191962 A 20111205