

Title (en)

Flat bed knitting machine with at least one needle bed

Title (de)

Flachstrickmaschine mit mindestens einem Nadelbett

Title (fr)

Métier à tricoter rectiligne pourvu d'au moins un lit d'aiguilles

Publication

EP 1072710 A1 20010131 (DE)

Application

EP 00107204 A 20000401

Priority

DE 19936067 A 19990730

Abstract (en)

The flatbed knitter has at least one needle bed, and a lock slide (50) moving along the needle bed. At least one functional unit, and especially the yarn guide, also moves along the needle bed and it is powered through the drive (30) for the lock slide so that its movements are synchronized with the lock slide (50). The lock slide drive (30) has at least one driver (2) which is not linked to the lock slide (50), to engage a functional unit and synchronize its movements with the lock slide (50). At least one driver (2) rides in a rail (1), parallel to at least one needle bed, with a chain or belt (3) or cable transmission from the lock slide drive (30). The driver (2) is at a continuous chain or toothed belt (3), which passes around two deflection rollers (6,7). At least one deflection roller (6,7) is rotated by the motor shaft (30) of the lock slide drive. The synchronized movements of the driver (2) with the lock slide (50) ensure that its vertical center axis (55) coincides with the vertical center axis (55) of the knitting system lock of the slide (50). At least one driver (2) can be engaged with a number of functional units. The driver (2) has one or more controlled and adjustable slides (22) which, in the functioning position, engage limit surfaces of at least one functional unit.

Abstract (de)

Eine Flachstrickmaschine mit mindestens einem Nadelbett und mindestens einem längs des mindestens einen Nadelbetts bewegbaren Schlitten sowie mindestens einem längs des mindestens einen Nadelbetts bewegbar gelagerten Funktionselement, wobei das mindestens eine Funktionselement durch den Schlittenantrieb (30) synchron zu dem mindestens einen Schlitten (50) antreibbar ist. <IMAGE>

IPC 1-7

D04B 15/96

IPC 8 full level

D04B 15/36 (2006.01); **D04B 15/38** (2006.01); **D04B 15/56** (2006.01); **D04B 15/96** (2006.01)

CPC (source: EP)

D04B 15/56 (2013.01); **D04B 15/90** (2013.01); **D04B 15/96** (2013.01)

Citation (search report)

- [A] EP 0709506 A1 19960501 - SHIMA SEIKI MFG [JP]
- [A] EP 0139926 A1 19850508 - SCHELLER GMBH GEBR [DE]
- [A] DE 4207414 A1 19921015 - SHIMA SEIKI MFG [JP]
- [A] GB 2269826 A 19940223 - WIRKBAU TEXTILMASCH GMBH [DE]

Cited by

CN101967727A; FR2874221A1; WO2006018693A1

Designated contracting state (EPC)

DE ES IT PT

DOCDB simple family (publication)

EP 1072710 A1 20010131; **EP 1072710 B1 20040721**; CN 1161508 C 20040811; CN 1282809 A 20010207; DE 19936067 A1 20010201; DE 50007109 D1 20040826; ES 2222127 T3 20050201; JP 2001115366 A 20010424; JP 3965594 B2 20070829; PT 1072710 E 20041130

DOCDB simple family (application)

EP 00107204 A 20000401; CN 00122222 A 20000729; DE 19936067 A 19990730; DE 50007109 T 20000401; ES 00107204 T 20000401; JP 2000211918 A 20000609; PT 00107204 T 20000401