

Title (en)
Flat bed knitting machine

Title (de)
Flachstrickmaschine

Title (fr)
Métier à tricoter rectiligne

Publication
EP 1041183 A2 20001004 (DE)

Application
EP 00101553 A 20000127

Priority
DE 19914080 A 19990327

Abstract (en)
The flatbed knitter, with at least one needle bed and a moving slide with at least one lock (100), has a looper (160,170) at each knock-over cam (130,140) to give looping surfaces of a different size and/or shape according to the setting of the knock-over ca (130,140). The looping surfaces are narrow or wide, according to the setting of the knock-over cams (130,140) and/or loopers (160,170) The knock-over cams (130,130) and/or loopers (160,170) have positive guide surfaces. A guide surface for the needle butt is at the looper which, after looping a stitch, gives the needle an advance movement into a defined gap from the looping surface. A guide surface for the needle butt, at the looper, can be set to give a drawing-in depth of certain needles against the drawing-in dept exerted by the knock-over cam/looping surfaces, to give a stepless needle drawing-in depth adjustment. The loopers (160,170) hav swing movement on the knock-over cams (130,140), and can be adjusted during knitting. At least one lock (100) works as a pressur lock.

Abstract (de)
Eine Flachstrickmaschine mit mindestens einem Nadelbett und einem entlang der Nadelbetten gleitenden Schlitten, der mindestens ein Schloss (100) mit Nadelauswahlvorrichtungen und Nadelsenkern (130, 140) aufweist, wobei mit den Nadelsenkern (130, 140) jeweils ein beweglich am Nadelsenker angeordnetes Kulierelement (160, 170) zusammenwirkt, das unabhängig vom Nadelsenker (130, 140) ansteuerbar ist und das gemeinsam mit dem Nadelsenker (130, 140) je nach seiner Stellung Kulierflächen unterschiedlicher Größe und/oder Form bildet. <IMAGE>

IPC 1-7
D04B 15/36

IPC 8 full level
D04B 15/32 (2006.01); **D04B 15/36** (2006.01)

CPC (source: EP US)
D04B 15/327 (2013.01 - EP US); **D04B 15/36** (2013.01 - EP US)

Citation (third parties)
Third party :

- EP 0060888 A1 19820929 - SHIMA IDEA CENTER CO LTD [JP]
- EP 0518582 A2 19921216 - GEN MOTORS CORP [US]
- EP 0698679 A1 19960228 - SHIMA SEIKI MFG [JP]
- US 4554802 A 19851126 - GOLLER ERNST [DE], et al
- A leaflet of SHIMA SEIKI Manufacturing 'SEC-K1 Four System Computerized Jacquard Knitting Machine'
- An Instruction Manual for flat knitting machine SEC-4K, SHIMA SEIKI Manufacturing
- SEC-4K Parts List for flat knitting machines, SHIMA SEIKI Manufacturing

Cited by
CN101851825A; CN101892551A; CN102776695A

Designated contracting state (EPC)
AT BE CH DE ES IT LI

DOCDB simple family (publication)
US 6240749 B1 20010605; AT E280255 T1 20041115; CN 1201039 C 20050511; CN 1269435 A 20001011; DE 19914080 A1 20000928; DE 50008283 D1 20041125; EP 1041183 A2 20001004; EP 1041183 A3 20010117; EP 1041183 B1 20041020; ES 2224923 T3 20050316; JP 2000314060 A 20001114; JP 3931290 B2 20070613

DOCDB simple family (application)
US 53301900 A 20000322; AT 00101553 T 20000127; CN 00104806 A 20000327; DE 19914080 A 19990327; DE 50008283 T 20000127; EP 00101553 A 20000127; ES 00101553 T 20000127; JP 2000123321 A 20000322