

Title (en)
Flat bed knitting machine with movable yarn guide members.

Title (de)
Flachstrichmaschine mit bewegbaren Fadenführungselementen.

Title (fr)
Métier à tricoter rectiligne avec des éléments guide-fil mobiles.

Publication
EP 0672769 A1 19950920 (EN)

Application
EP 95301744 A 19950316

Priority
JP 4919694 A 19940318

Abstract (en)
A flat knitting machine incorporating movable yarn guide members has a pair of needle beds (2) disposed in front and rear alignment and a plurality of needle plates (3) provided for each needle bed (2) at equal intervals. The pair of needle beds (2) are disposed in front and rear alignment so that said tip portions of the needle plates (3) are close to each other. A plurality of knitting needles (4) are aligned in parallel between the needle plates (3). The knitting needles (4) are compound needles in which sliders are projecting and retracting via a carriage (7). There are provided a plurality of movable sinkers (7) each of which is swingably held at a position close to tip end of each needle plate (3) and is provided with an elastically energizing member for generating energizing force by which a knitting yarn held in knitting-yarn pressing portion formed at tip portion of each movable sinker is energized in the direction of pressing knitting yarn. Each yarn guide member is provided between a needle plate and a knitting needle, with each yarn guide member is slidably disposed so that guide surface formed at the tip thereof can project and retract itself from the tip of each needle bed. An operating member is provided at rear-end portion of each yarn guide member and projecting and retracting by a control means secured to a carriage. <IMAGE>

IPC 1-7
D04B 15/06

IPC 8 full level
D04B 15/06 (2006.01); **D04B 15/36** (2006.01); **D04B 15/56** (2006.01)

CPC (source: EP)
D04B 15/06 (2013.01); **D04B 15/10** (2013.01); **D04B 15/362** (2013.01); **D04B 15/90** (2013.01)

Citation (search report)
• [A] EP 0578458 A1 19940112 - SHIMA SEIKI MFG [JP]
• [DA] EP 0441564 A2 19910814 - SHIMA SEIKI MFG [JP]
• [DA] EP 0435690 A2 19910703 - SHIMA SEIKI MFG [JP]

Cited by
US11313058B2; EP2570532A1; US6014874A; EP1522617A1; CN102995285A; EP1942216A4; DE19806548A1; US2020270780A1;
US11639566B2; EP1467010A1; CN100408741C; US7152435B2; EP0937800B1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0672769 A1 19950920; EP 0672769 B1 19980520; DE 69502524 D1 19980625; DE 69502524 T2 19980910; JP 3333304 B2 20021015;
JP H07258946 A 19951009; TW 297413 U 19970201

DOCDB simple family (application)
EP 95301744 A 19950316; DE 69502524 T 19950316; JP 4919694 A 19940318; TW 85203135 U 19950314