

Title (en)

Electromagnetic needle selection device for circular knitting machine.

Title (de)

Elektromagnetische Nadelauswahlvorrichtung für eine Rundstrickmaschine.

Title (fr)

Dispositif électromagnétique pour la sélection des aiguilles dans une machine tricoteuse circulaire.

Publication

**EP 0395383 B1 19950405 (EN)**

Application

**EP 90304459 A 19900425**

Priority

JP 10693589 A 19890425

Abstract (en)

[origin: EP0395383A2] Each yarn feeding and knitting station of the knitting machine is provided with an electromagnetic needle selection device so that the selection of knitting, tucking or welting of the needles is provided at each yarn feeding and knitting station thereby permitting the full range of pattern knitting at each yarn feeding and knitting station. A needle cylinder (1) is provided with grooves supporting knitting needles (2) and a rocking jack supporting cylinder (9) supporting first and second sets of rocking jacks (13, 14) is positioned beneath and in coaxial relationship with the needle cylinder (1). The rocking jack supporting cylinder (9) is of larger diameter than the needle cylinder and a right angle control lever (10) is positioned for rocking movement at the juncture of the smaller needle cylinder (1) and the larger rocking jack supporting cylinder (9). A spring jack (3) is retained below each needle (2) and includes a selecting butt for movement into and out of engagement with spring jack cams (6). First and second electromagnetic needle selection units (A and B) are positioned at each of the yarn feeding and knitting stations and adjacent the rocking jack supporting cylinder (9) and are operable for selectively imparting swinging movements to the rocking jacks (13, 14) so that the corresponding needles (2) may be selected for knitting, tucking or welting at each yarn feeding and knitting station. <IMAGE>

IPC 1-7

**D04B 15/78**

IPC 8 full level

**D04B 15/78** (2006.01); **D04B 15/82** (2006.01)

CPC (source: EP KR)

**D04B 9/24** (2013.01 - KR); **D04B 15/78** (2013.01 - EP)

Cited by

US5205139A; GB2337275A; US6119492A; ES2156726A1; GB2337275B; US9068026B2; WO2007112700A1; WO2015055137A1; WO2011044761A1; WO2011044760A1; WO2015055136A1; WO2022089423A1

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

**EP 0395383 A2 19901031**; **EP 0395383 A3 19920226**; **EP 0395383 B1 19950405**; DE 69018305 D1 19950511; DE 69018305 T2 19950803; ES 2073525 T3 19950816; JP 2816700 B2 19981027; JP H02289154 A 19901129; KR 0122597 B1 19971127; KR 900016525 A 19901113

DOCDB simple family (application)

**EP 90304459 A 19900425**; DE 69018305 T 19900425; ES 90304459 T 19900425; JP 10693589 A 19890425; KR 900005355 A 19900417