

Title (en)

Needle selecting apparatus for circular knitting machines

Title (de)

Nadelauswahlvorrichtung für Rundstrickmaschinen

Title (fr)

Dispositif de sélection d'aiguilles pour des machines à tricoter circulaires

Publication

**EP 0974692 A2 20000126 (EN)**

Application

**EP 99305838 A 19990723**

Priority

JP 20755198 A 19980723

Abstract (en)

A circular knitting machine (20) comprises rotary needle cylinder, knitting needles, spring jacks, selector jacks (24) and a multi-tier electrically controlled needle selecting device (30). The needle selecting device (30) includes piezoelectric elements (32) and pattern fingers (33) for selecting and causing the selector jacks (24) control the movement of the needles (22) between welt, tuck and knit positions. A pre-pusher cam (34) is provided paritally to push the selector jacks (24) inwardly before these selector jacks are engaged by the pattern fingers (33) which increases the range of selection and permits increased speed in fine gauge knitting machines (24 gauge and higher) and which permits a reduction in the number of piezoelectric elements in coarse gauge machines and the inclusion of an interlock jacquard apparatus. <IMAGE>

IPC 1-7

**D04B 15/78**

IPC 8 full level

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

CPC (source: EP)

**D04B 15/78** (2013.01)

Citation (applicant)

- JP H0694619 A 19940408 - SUMITOMO METAL IND
- US 5823015 A 19981020 - SHIBATA TAKAO [JP]
- US 5647230 A 19970715 - SO HIDETOSHI [JP], et al

Cited by

CN107574553A; EP1219741A1; CN103966755A; CN111455545A; US7057329B2; CN112011888A; US6526784B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0974692 A2 20000126; EP 0974692 A3 20001025**; JP 2000045156 A 20000215

DOCDB simple family (application)

**EP 99305838 A 19990723**; JP 20755198 A 19980723