

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 A2 19901031 (EN)

Application

EP 90304459 A 19900425

Priority

JP 10693589 A 19890425

Abstract (en)

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>

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IPC 8 full level

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CPC (source: EP KR)

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Cited by

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

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