

Title (en)

Needle selection device for circular knitting machine, specially for stockings.

Title (de)

Nadelauswahlvorrichtung für Rundstrickmaschine, insbesondere für Strümpfe.

Title (fr)

Dispositif de sélection des aiguilles pour machine à tricoter circulaire, en particulier pour les bas.

Publication

**EP 0503216 B1 19950125 (FR)**

Application

**EP 91830105 A 19910315**

Priority

EP 91830105 A 19910315

Abstract (en)

[origin: EP0503216A1] To carry out the selection of the needles in a circular knitting machine, especially for stockings, comprising for each needle (2) an oscillating pusher jack (4) with two butts, one, the upper, (7) cooperating, in the selection position, with a lowering cam (9) and the other, the lower, (8) cooperating, in the selection position, with a cam (10) for pressing in a centripetal direction in relation to the cylinder and with a lifting cam (11), and a horizontal elastic selector jack (12) seated in a radial groove (13) of a horizontal ring (14) made of non-magnetic material and fastened round the needle cylinder (1) both with its foot (16) fastened to said ring (14) and its head (18) projecting into the groove (3) of the corresponding pusher jack (4) and underneath the foot (6) of the latter in the position of rest, there are used: - a permanently magnetised collar (20) fastened underneath the ring (14) and opposite the selector jacks (12) and at such a distance from these that it effects their retention only when they are remote from their horizontal position of rest, that is to say when they are inclined downwards; - a permanent magnet (25) fastened to the stationary structure of the machine in correspondence with each pressure cam (10) and immediately in front of the selection position, in order to make it possible to move the selector jacks (12) away from the position of rest, that is to say to incline them towards and as far as said retaining collar (20); - a vertical pusher (30) which is mounted on means (31-33) for actuation to vertical oscillation between the moving-away magnet (25) and the ramp of said lifting cam (11), in a position below the plane of the selector jacks (12) and at such a distance from these that the upward stroke of the pusher (30) brings or does not bring about the release of the selector jacks (12) from the retaining collar (20) and thus makes it possible respectively to maintain or modify the position of the corresponding pusher jacks (4) in the grooves (3) during their passage over the pressure cam (10), this corresponding respectively to the inoperative position and the operative position of the corresponding needles (2). <IMAGE>

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**D04B 15/78**

IPC 8 full level

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CPC (source: EP US)

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