

Title (en)

Electro magnetical needle selection system for knitting machines

Title (de)

Elektromagnetisches Nadelauswahlsystem für Strickmaschinen

Title (fr)

Système de sélection d'aiguilles électromagnétique dans des machines à tricoter

Publication

**EP 0712952 B1 19990428 (DE)**

Application

**EP 95117676 A 19951109**

Priority

IT FI940209 A 19941117

Abstract (en)

[origin: EP0712952A1] System for the lifting of needles on a knitting machine by needle butts to produce a fabric pattern comprises the following system in combination: (a) electromagnetic unit(s) (11) with a permanent magnet and electromagnets to produce a homogeneous magnetic field, the pole faces of the electromagnets equal or smaller than the needle gauge; (b) an electronic control unit which sends synchronised selected impulses to the electromagnets to weaken or cancel the field of the permanent magnet; (c) a swinging lower needle (5) which transfers the magnetic action by rotating about a point (5B) as the end (5D) attracted to the pole face to disengage the lifting ledge (5C); (d) a spring (15) which rotates the lower needle (5) as it passes over subsequent pole faces; and (e) a sinker cam (13) to lower the lower needle, a radial cam (17) to deflect the swinging lower needle (5) and a lifting cam (9). Also claimed is the knitting machine.

IPC 1-7

**D04B 15/78**

IPC 8 full level

**D04B 15/78** (2006.01)

CPC (source: EP)

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Cited by

CZ304913B6; EP0814187A3; GB2337531A; GB2337531B; ES2168037A1; ES2168036A1; GB2337532B; GB2337532A; US6167730B1; US6178786B1

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