Title (en)

Spring transfer device with servo drive

Title (de)

Federtransporteinrichtung mit Servo-Antrieb

Title (fr)

Dispositif de transport de ressorts avec servo-entraînement

Publication

EP 0774309 B1 20000105 (DE)

Application

EP 96117128 A 19961025

Priority

DE 19542846 A 19951117

Abstract (en)

[origin: EP0774309A1] The device catches a spring in the grip jaw (18) of a multi-arm transporting turntable (1), and taken to further positions from there. Two endless belts (8,9) are used for the further transportation of the springs. There may be a common drive (7) for both belts. The drive may be a servo drive or a stepper motor. The spacing between the sides of the belts facing each other is less than the height of the springs. The belts have a horizontally facing section, a turning section and a vertically facing section.

IPC 1-7

B21F 33/04

IPC 8 full level

B21F 33/04 (2006.01)

CPC (source: EP US)

B21F 33/04 (2013.01 - EP US)

Cited by

US6601902B1; EP2801420A1; CN105188984A; WO2014180586A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0774309 A1 19970521; **EP 0774309 B1 20000105**; DE 19542846 A1 19970522; DE 59604106 D1 20000210; ES 2142533 T3 20000416; TW 410811 U 20001101; US 5868240 A 19990209

DOCDB simple family (application)

EP 96117128 A 19961025; DE 19542846 A 19951117; DE 59604106 T 19961025; ES 96117128 T 19961025; TW 88217755 U 19961116; US 75106696 A 19961115