

Title (en)

Method and device for producing coil springs by means of coiling machines

Title (de)

Verfahren und Vorrichtung zur Herstellung von Schraubenfedern durch Federwinden

Title (fr)

Procédé et dispositif de fabrication de ressorts cylindriques par enroulements de ressort

Publication

EP 2374551 B1 20121128 (DE)

Application

EP 11001528 A 20110224

Priority

DE 102010014385 A 20100406

Abstract (en)

[origin: EP2374551A1] The method involves defining a target geometry of a helical spring by a numerically controlled (NC) control program, and measuring an actual position of a structural element of the spring relative to a reference element at a measuring time point. The actual position is compared with a target position of the structural element at the time point for determining actual position difference that represents difference between the actual position and the target position at the time point. A position of a pitch tool (130) of a shaping device (120) is controlled based on the position difference. Independent claims are also included for the following: (1) a computer numerical controlled spring winding machine comprising a feeding device for supplying a wire to a shaping device (2) a computer program product for executing a method for manufacturing a helical spring.

IPC 8 full level

B21C 51/00 (2006.01); **B21F 3/02** (2006.01); **B21F 35/00** (2006.01)

CPC (source: EP US)

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