

Title (en)

Apparatus and method for making coil springs

Title (de)

Verfahren und Vorrichtung zur Herstellung von Schraubenfedern

Title (fr)

Procédé et dispositif pour la fabrication de ressorts hélicoïdaux

Publication

**EP 0950445 A2 19991020 (EN)**

Application

**EP 99104825 A 19990311**

Priority

IT MI980815 A 19980417

Abstract (en)

An apparatus for making coil springs comprises a wire feeding assembly (1), a supporting assembly (6) for supporting at least a forming foot element (3) for forming the spring turns, a coil spring axial pitch forming tool, and a cutting assembly (2a,2b). The main feature of the invention is that the foot element supporting assembly (6) comprises a plurality of slides, driven by respective driving servomotors, controlled by a digitally controlled processor, and which can be oriented according to directions adapted to provide a proper geometrical configuration of the turns of the spring, to arrange the foot elements opposite to the wire feeding direction in order to cause the coil wire to yield depending on the technological properties thereof. <IMAGE>

IPC 1-7

**B21F 3/02**

IPC 8 full level

**B21F 3/02** (2006.01)

CPC (source: EP)

**B21F 3/02** (2013.01)

Cited by

JP2013226584A; EP3677360A1; JP5403841B1

Designated contracting state (EPC)

DE ES FR GB

DOCDB simple family (publication)

**EP 0950445 A2 19991020; EP 0950445 A3 20010117; IT 1303020 B1 20001020; IT MI980815 A1 19991017**

DOCDB simple family (application)

**EP 99104825 A 19990311; IT MI980815 A 19980417**