

Title (en)

METHOD AND DEVICE FOR PRODUCING CAMBERED SECTIONS OF SPRING BAND

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN GEBOGENER FEDERBANDABSCHNITTE

Title (fr)

PROCEDE ET DISPOSITIF POUR LA PRODUCTION DE SEGMENTS DE RESSORT A RUBAN CINTRES

Publication

EP 1069963 B8 20090218 (DE)

Application

EP 99914428 A 19990224

Priority

- DE 9900492 W 19990224
- DE 19815529 A 19980407

Abstract (en)

[origin: WO9951375A1] The invention relates to a method and a device for producing cambered sections of spring band, the thickness of the material varying over the length of the section. The aim of the invention is to obtain dimensionally stable bending radii with precise tolerances. To this end, the spring band is passed through a bending unit (20) consisting of three bearing points (23-25) set apart from each other and a reverse bending unit (22) situated downstream of the bending unit in the direction of advancement of the spring band and consisting of a fourth bearing point (32). The bent and reverse-bent spring band sections (11) are separated from the spring band (10) in a separating unit (21). The middle bearing point (24) of the bending unit (20) and the fourth bearing point (32) of the reverse bending unit (22) are configured so that they are displaceable and are controlled in terms of their positioning relative to the spring band (10) with an NC control unit (29), in accordance with a predetermined programme.

IPC 8 full level

B21D 5/14 (2006.01); **B21D 53/00** (2006.01); **B21D 53/88** (2006.01)

CPC (source: EP KR)

B21D 53/88 (2013.01 - EP KR); **B21D 53/886** (2013.01 - EP); **B60S 2001/3898** (2013.01 - EP)

Designated contracting state (EPC)

BE ES FR GB IT

DOCDB simple family (publication)

WO 9951375 A1 19991014; BR 9909495 A 20001212; DE 19815529 C1 19991202; DE 59914888 D1 20081211; EP 1069963 A1 20010124; EP 1069963 B1 20081029; EP 1069963 B8 20090218; ES 2313781 T3 20090301; JP 2002527240 A 20020827; JP 4309580 B2 20090805; KR 20010042454 A 20010525; ZA 992540 B 20001006

DOCDB simple family (application)

DE 9900492 W 19990224; BR 9909495 A 19990224; DE 19815529 A 19980407; DE 59914888 T 19990224; EP 99914428 A 19990224; ES 99914428 T 19990224; JP 2000542131 A 19990224; KR 20007011061 A 20001005; ZA 992540 A 19990406