

Title (en)

DEVICE FOR PRODUCING COILS FROM SPRING STEEL MATERIAL.

Title (de)

VORRICHTUNG ZUM HERSTELLEN VON WICKELN AUS FEDERSTAHLGEWIRK.

Title (fr)

DISPOSITIF DE FABRICATION DE ROULEAUX EN UN TISSU D'ACIER A RESSORTS.

Publication

EP 0515581 B1 19940504

Application

EP 91914185 A 19910205

Priority

- DE 4004187 A 19900212
- EP 9100218 W 19910205

Abstract (en)

[origin: WO9112100A1] A device for the automatic production of spring steel coils comprises a cutting station (14), a winding spindle (16) and a conveyor arm (20) reciprocating between the cutting station and the winding spindle (16) and fitted with material gripping wires (36) on the underside which are inclined obliquely forward.

IPC 1-7

B21F 33/00; **B21C 47/32**; **B65H 19/28**

IPC 8 full level

B21C 47/32 (2006.01); **B21F 33/00** (2006.01); **B65H 19/28** (2006.01)

CPC (source: EP US)

B21C 47/32 (2013.01 - EP US); **B21F 33/002** (2013.01 - EP US); **B65H 19/28** (2013.01 - EP US); **Y10T 29/5198** (2015.01 - EP US)

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DOCDB simple family (publication)

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