

Title (en)

Straightening apparatus for wire, multiple wire or tubular products

Title (de)

Richtapparat für drahtförmiges, mehrdrahtförmiges oder rohrförmiges Richtgut

Title (fr)

Appareil pour le dressage de produits en fil, plusieurs fil ou tubulaires

Publication

**EP 0619155 B1 19970604 (DE)**

Application

**EP 94105174 A 19940331**

Priority

DE 4311299 A 19930406

Abstract (en)

[origin: DE4311299C1] The straightening appts. includes a main frame formed by body components (2, 3) mounted on guide elements and provided with a closing mechanism. The frame holds several straightening rolls installed in the components (2, 3) - which are movable relative to one another - and arranged in two parallel planes. The appts. is characterized by the following facts: (a) the components (2, 3) are kept in a definite open state by means of springs (7); (b) they are brought into a closed state with a given definite zero setting by means of the closing mechanism; and (c) the closed state with a definite zero setting is secured by means of a releasable catch mechanism. USE/ADVANTAGE - For straightening wire and tube products. Zero setting of the appts. is retained longer without adjustment or part replacement.

IPC 1-7

**B21F 1/02**

IPC 8 full level

**B21D 3/05** (2006.01); **B21F 1/02** (2006.01)

CPC (source: EP US)

**B21D 3/05** (2013.01 - EP US); **B21F 1/02** (2013.01 - EP US)

Cited by

CN107511438A; CN105215234A; DE10149415A1; DE10149415B4; EP3812060A1; US11590556B2; EP3812060B1

Designated contracting state (EPC)

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**DE 4311299 C1 19940224**; EP 0619155 A1 19941012; EP 0619155 B1 19970604; ES 2105390 T3 19971016; US 5467629 A 19951121

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**DE 4311299 A 19930406**; EP 94105174 A 19940331; ES 94105174 T 19940331; US 22284594 A 19940405