

Title (en)

Method and apparatus for dynamic surface cleaning and straightening for steel wire rod and/or bars

Title (de)

Verfahren und Vorrichtung für dynamische Oberflächenreinigung und Ausrichtung für Stahlwalzdraht und/oder Stäbe

Title (fr)

Procédé et appareil pour le nettoyage dynamique de la surface et redressement de tiges et/ou de barres de fil d'acier

Publication

**EP 1892048 A1 20080227 (EN)**

Application

**EP 07015876 A 20070813**

Priority

IT UD20060202 A 20060824

Abstract (en)

A method and a corresponding apparatus for dynamic straightening and surface cleaning : of steel wire rods and/or bars. The rolled-element (1) is subjected to a dynamic action, caused by the spindle-like orbital rotation (1.1) in the region between the two eccentric rotating bushes (3, 4). Upstream (2) and downstream (3) there are optional roller traction assemblies to produce the advancement of the rolled element. These assemblies are actuated, controlled and adjusted with respect to each other by virtue of a suitable transmission of motion with a differential device. Likewise, the two eccentric rotating bushes (3, 4) are moved by the motor (8) and by the corresponding drive with differential device (9). The iron scale and other impurities (7), which separate from the outer surface of the rolled element (1.1), due to the bending deformation (centrifugal effect) and to an aerodynamic effect, are collected in the container (6). The rolled element, when it exits from the region of spindle-like orbital rotation, exits in a straightened condition and with a clean outer surface.

IPC 8 full level

**B21C 43/04** (2006.01)

CPC (source: EP)

**B21C 43/04** (2013.01)

Citation (search report)

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- [A] EP 0100236 A1 19840208 - PARAMEC CHEMICALS LTD [GB]
- [A] DATABASE WPI Week 198829, Derwent World Patents Index; AN 1988-203754, XP002458967

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