

Title (en)

Process and apparatus for treating strips

Title (de)

Verfahren und Einrichtung zur Bandbehandlung

Title (fr)

Procédé et installation de traitement d'un produit en bande

Publication

EP 1357205 B1 20061213 (FR)

Application

EP 03290996 A 20030423

Priority

FR 0205318 A 20020426

Abstract (en)

[origin: EP1357205A2] Variation in strip velocity in a treatment section (2) of, e.g., a pickling installation is compensated by variation in strip length between the treatment section (2) outlet end and a downstream tensioner, so that constant strip length is maintained between the outlet end and an upstream tensioner (61) without perceptible variation in tractive force applied to the strip (4) between tensioners. A metallic strip (4) moves in a longitudinal direction through an installation comprising at least three successive sections, namely a feed section (1), a section (2) for treatment in at least one extended tank containing processing fluid and having an inlet (23) and an outlet located at an upper level and between which the moving band forms a curve (40) whose lower part (43) is located at a lower level that depends on the length of the strip between the inlet (23) and outlet, and a discharge section. The treatment section (2) is connected to an upstream tensioner (61) and a downstream tensioner located before the inlet end (20) and behind the outlet end of the treatment section (2), respectively. Any variation in strip velocity in the treatment section (2) is compensated immediately, at least during strip acceleration or deceleration, by a corresponding variation in the length of the strip between the outlet end of the treatment section (2) and the downstream tensioner, so as to maintain a substantially constant length of the strip between the outlet end of the treatment section (2) and the upstream tensioner (61) without any perceptible variation in the tractive force applied to the strip (4) between the two tensioners. An Independent claim is given for an installation for implementation of the invented process.

IPC 8 full level

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CPC (source: EP US)

B21C 47/34 (2013.01 - EP US); **B21C 49/00** (2013.01 - EP US); **C23G 3/027** (2013.01 - EP US)

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AT DE ES FR IT

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EP 1357205 A2 20031029; **EP 1357205 A3 20050223**; **EP 1357205 B1 20061213**; AT E347941 T1 20070115; DE 60310294 D1 20070125; DE 60310294 T2 20070712; ES 2278123 T3 20070801; FR 2839085 A1 20031031; FR 2839085 B1 20050204; US 2003230663 A1 20031218

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EP 03290996 A 20030423; AT 03290996 T 20030423; DE 60310294 T 20030423; ES 03290996 T 20030423; FR 0205318 A 20020426; US 42303303 A 20030425