

Title (en)

Device for the pneumatic stabilisation of a continuously running metallic strip

Title (de)

Vorrichtung zur pneumatischen Stabilisierung eines kontinuierlich laufenden Metallbandes

Title (fr)

Dispositif pour la stabilisation pneumatique d'une bande métallique en défilement continu

Publication

EP 1728888 A1 20061206 (FR)

Application

EP 06447053 A 20060413

Priority

BE 200500277 A 20050602

Abstract (en)

The pneumatic stabiliser, designed to deliver a gas such as air, nitrogen or carbon dioxide under pressure to at least one side of a continuously-running metal strip (1), especially a steel strip leaving a hot galvanising bath of molten zinc (2), consists of a housing (5) with at least two transverse gas outlet slits (6) covering the width of the strip with the space between the slits covered by a perforated plate (8). The plate covers a housing cavity (7) with side walls (17) and a back (27), containing a moving plate (9) connected to a passive damper (10) essentially in the form of a damped harmonic oscillator. The gas flows from the slits can be delivered perpendicular or at an oblique angle to the moving strip's surface.

IPC 8 full level

C23C 2/16 (2006.01); **C23C 2/36** (2006.01)

CPC (source: EP US)

C23C 2/003 (2013.01 - EP US); **C23C 2/20** (2013.01 - EP); **C23C 2/5245** (2022.08 - EP US)

Citation (applicant)

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- JP S5684452 A 19810709 - NIPPON STEEL CORP
- JP H10298728 A 19981110 - NIPPON KOKAN KK
- JP H051362 A 19930108 - NIPPON KOKAN KK
- JP H09143652 A 19970603 - KAWASAKI STEEL CO
- JP H1087755 A 19980407 - MITSUBISHI CHEM CORP
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Citation (search report)

- [A] GB 2334351 A 19990818 - BRITISH STEEL PLC [GB]
- [XA] PATENT ABSTRACTS OF JAPAN vol. 004, no. 173 (C - 032) 29 November 1980 (1980-11-29)
- [XDA] PATENT ABSTRACTS OF JAPAN vol. 005, no. 152 (C - 073) 25 September 1981 (1981-09-25)
- [AD] PATENT ABSTRACTS OF JAPAN vol. 006, no. 036 (M - 115) 5 March 1982 (1982-03-05)
- [AD] PATENT ABSTRACTS OF JAPAN vol. 006, no. 186 (C - 126) 22 September 1982 (1982-09-22)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 05 12 May 2003 (2003-05-12)

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CN114411079A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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DOCDB simple family (application)

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