

Title (en)

PROCESS AND DEVICE FOR THE CONTINUOUS PRODUCTION OF SHEET METAL STRIPS

Title (de)

VERFAHREN UND ANLAGE ZUR KONTINUIERLICHEN ERZEUGUNG BANDFÖRMIGER BLECHE

Title (fr)

PROCEDE ET INSTALLATION DE PRODUCTION CONTINUE DE TOLES EN FORME DE FEUILLARDS

Publication

**EP 0814925 A1 19980107 (DE)**

Application

**EP 96902223 A 19960205**

Priority

- DE 9600210 W 19960205
- DE 19509681 A 19950307

Abstract (en)

[origin: WO9627464A1] The invention concerns a process and a device for the continuous production of sheet metal strips, in particular of steel. A mother strip (1) with a metallically pure surface is drawn through a metal melt bath (14) and the resulting coating is smoothed by rolling immediately after leaving the melt bath. In order to design a process and device for carrying out this operation and facilitating controlled pre-heating of the mother strip to a temperature well above ambient temperature (more specifically, above 200 DEG C) without complex apparatus and without any risk of re-oxidation of the mother strip surface, it is proposed that the mother strip should be introduced into the metal melt bath (14) after being pre-heated to a temperature well above ambient temperature (more specifically, above 200 DEG C); the pre-heating should be done by indirect heat exchange with the melt bath in an oxygen-free environment, and the melt freshly introduced into the melt bath should be at a raised temperature corresponding to the heat loss involved in the pre-heating.

IPC 1-7

**B22D 11/00**

IPC 8 full level

**B22D 11/06** (2006.01); **B22D 11/00** (2006.01); **B22D 11/04** (2006.01); **B22D 11/10** (2006.01); **B22D 19/00** (2006.01); **B22D 23/04** (2006.01); **C23C 2/00** (2006.01)

CPC (source: EP KR US)

**B22D 11/00** (2013.01 - KR); **B22D 11/008** (2013.01 - EP US); **C23C 2/0035** (2022.08 - EP KR US); **C23C 2/00362** (2022.08 - EP KR US)

Citation (search report)

See references of WO 9627464A1

Designated contracting state (EPC)

AT DE FR GB IT

DOCDB simple family (publication)

**WO 9627464 A1 19960912**; AT E180189 T1 19990615; DE 19509681 C1 19960502; DE 59601950 D1 19990624; EP 0814925 A1 19980107; EP 0814925 B1 19990519; JP 2914585 B2 19990705; JP H10511313 A 19981104; KR 100264945 B1 20000901; KR 19980702596 A 19980805; RU 2146984 C1 20000327; US 5855238 A 19990105; ZA 961531 B 19960828

DOCDB simple family (application)

**DE 9600210 W 19960205**; AT 96902223 T 19960205; DE 19509681 A 19950307; DE 59601950 T 19960205; EP 96902223 A 19960205; JP 52651596 A 19960205; KR 19970706001 A 19970828; RU 97116501 A 19960205; US 89446697 D 19971107; ZA 961531 A 19960226