

Title (en)

Dual-purpose plant for producing cold rolled steel sheet and hot-dip galvanized steel sheet.

Title (de)

Anlage mit zweifacher Funktion zur Herstellung von kalt gewalztem und feuerverzinkt überzogenem Stahlblech.

Title (fr)

Installation à double fonction pour la fabrication d'une tôle d'acier laminée à froid et revêtue à chaud.

Publication

**EP 0072874 A1 19830302 (EN)**

Application

**EP 81106598 A 19810825**

Priority

EP 81106598 A 19810825

Abstract (en)

A dual-purpose production plant for cold rolled steel sheets and hot-dip galvanized steel sheets comprising, successively disposed in series, a heating zone (5), a soaking zone (6), a primary cooling zone (7), an overaging zone (8) equipped with a controlled cooling facility, a molten galvanizing zone (9), an intermediate cooling means (10), a secondary cooling zone (11), a temper rolling means (14), and a chemical treatment means (16), said overaging zone (8) and said secondary cooling zone (11) being equipped with a bypass means (22) for directly connecting the two zones with each other.

IPC 1-7

**C23C 1/14**; B21B 15/00; B21B 1/26

IPC 8 full level

**C21D 9/56** (2006.01); **C23C 2/02** (2006.01); **C23C 2/40** (2006.01)

CPC (source: EP US)

**C21D 9/56** (2013.01 - EP); **C23C 2/0038** (2022.08 - EP US); **C23C 2/02** (2013.01 - EP US); **C23C 2/0222** (2022.08 - EP US); **C23C 2/0224** (2022.08 - EP US); **C23C 2/024** (2022.08 - EP US); **C23C 2/40** (2013.01 - EP)

Citation (search report)

- GB 1565874 A 19800423 - ARBED
- US 4143184 A 19790306 - PAULUS PHILIPPE, et al
- US 1753268 A 19300408 - LANE JOHNSON
- GB 1011951 A 19651201 - UNITED STATES STEEL CORP
- PATENT ABSTRACTS OF JAPAN, unexamined applications, section C, vol. 3, no. 7, January 24, 1979 THE PATENT OFFICE JAPANESE GOVERNMENT Page 165 C 34 \* JP - A - 53-132 437 (SHIN NIPPON SEITETSU K.K.) \*

Cited by

WO2020221977A1; EP0216044A3; GB2277701A; EP0176109A1; EP0254633A1; FR2601700A1; FR2817876A1; EP0233944A4; EP1325163A4; RU2563909C9; FR3095452A1; CN113811627A; EP3795716A1; US6764641B2; WO8800619A1; WO0246487A1; WO8800983A1; DE102016011047A1; WO2018050857A1; US10584407B2; US11248287B2; DE102015001438A1; EP0255466A1; US4884525A; JP2018506644A; JP2020169388A

Designated contracting state (EPC)

BE DE FR GB IT

DOCDB simple family (publication)

**EP 0072874 A1 19830302**; **EP 0072874 B1 19850529**; DE 3170723 D1 19850704

DOCDB simple family (application)

**EP 81106598 A 19810825**; DE 3170723 T 19810825