

Title (en)

Process for production of austenitic stainless steel thin cast strip and strip obtained thereby.

Title (de)

Verfahren zur Herstellung dünner gegossener rostfreier austenitischer Stahlbänder und derart hergestellte Bänder.

Title (fr)

Procédé de production d'une bande mince coulée en acier inoxydable austénitique et bande ainsi obtenue.

Publication

**EP 0481481 A1 19920422 (EN)**

Application

**EP 91117741 A 19911017**

Priority

JP 27909790 A 19901019

Abstract (en)

Disclosed is a process for the production of an austenitic stainless steel thin cast strip having an excellent surface quality, which comprises casting an austenitic stainless steel, in which delta -Fecal. (%), defined by  $3(\text{Cr} + 1.5\text{Si} + \text{Mo}) - 2.8(\text{Ni} + 0.5\text{Mn} + 0.5\text{Cu}) - 84(\text{C} + \text{N}) - 19.8$ , is controlled to 5 to 9%, by a continuous casting machine, in which a thin cast strip is moved synchronously with the wall surface of a cooling drum, on which many dimples having a diameter of 0.1 to 1.2 mm and a depth of 50 to 100  $\mu\text{m}$  and having a circular or ellipsoidal opening are distributed so that the distance between every two adjacent dimple edges is smaller than 0.35 mm, into a thin cast strip having a thickness smaller than 10 mm. <IMAGE>

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CPC (source: EP KR)

**B22D 11/06** (2013.01 - KR); **B22D 11/0651** (2013.01 - EP); **C21D 8/0205** (2013.01 - EP)

Citation (search report)

- [Y] EP 0378705 B1 19960131 - NIPPON STEEL CORP [JP]
- [A] EP 0309247 A2 19890329 - NIPPON STEEL CORP [JP], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 13, no. 289 (M-845)(3637) 5 July 1989 & JP-A-1 083 342 ( NIPPON STEEL CORP. ) 29 March 1989
- [A] PATENT ABSTRACTS OF JAPAN vol. 6, no. 261 (C-141)(1139) 21 December 1982 & JP-A-57 155 322 ( SHIN NIPPON SEITETSU KK ) 25 September 1982
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 353 (C-457)(2800) 18 November 1987 & JP-A-62 124 220 ( NIPPON STEEL CORP. ) 5 June 1987

Cited by

CN113741337A; CN113263162A; EP0679114A4; US6044895A; US6568462B1; EP0709151A1; FR2726209A1; AU689632B2; EP0796685A1; FR2746333A1; US5807444A; CN1067306C; WO9515233A1

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