

Title (en)

Process for producing a clad moulded body.

Title (de)

Verfahren zum Herstellen eines plattierten Formkörpers.

Title (fr)

Procédé de fabrication d'une pièce plaquée.

Publication

EP 0366646 B1 19931124 (DE)

Application

EP 89890278 A 19891023

Priority

AT 266688 A 19881028

Abstract (en)

[origin: EP0366646A1] In a process for producing a clad, in particular roll-bonding clad, moulded body consisting of a base material and at least one high- alloy, rustproof cladding material, the cladding material consists of 0.001 to 0.1% by weight of C, 0.001 to 2.0% by weight of Si, 0.01 to 5.0% by weight of Mn, 0.5 to 40.0% by weight of Cr, 35.0 to 80.0% by weight of Ni, 7.0 to 30.0% by weight of Mo, up to 5.0% by weight of Cu, up to 1.0% by weight of Ti, up to 1.0% by weight of Nb, up to 0.04% by weight of P, up to 5.0% by weight of W, up to 0.025% by weight of S, and the remainder of iron and impurities due to melting. After the cladding, the materials are heated to a temperature of between 1,000 and 1,150 DEG C, then quenched to a temperature of between 700 and 450 DEG C, preferably between 620 and 550 DEG C, at a cooling rate of between 10 DEG C/s and 1 DEG C/s and subsequently cooled using still air at a cooling rate of between 15 DEG C/min and 5 DEG C/min.

IPC 1-7

C21D 6/00; **C22C 19/05**; **C22C 38/44**; **B32B 15/01**

IPC 8 full level

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CPC (source: EP)

C21D 6/004 (2013.01)

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VOLK: NICKEL UND NICKELLEGIERUNGEN 1970, Seiten 392-395, Springer-Verlag Berlin, DE

Cited by

US6280540B1; EP0521774A1; FR2678642A1; US10112254B2; US11400542B2; US10882277B2; WO2017186112A1; WO2017186113A1; US10894388B2

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