

Title (en)

Process and installation for remelting of metals to a strand

Title (de)

Verfahren zum Umschmelzen von Metallen zu einem Strang sowie Vorrichtung dafür

Title (fr)

Procédé et dispositif pour la refusion de métaux sous forme de barres

Publication

EP 0786531 B1 20000719 (DE)

Application

EP 96120752 A 19961221

Priority

AT 15196 A 19960129

Abstract (en)

[origin: EP0786531A1] The method concerns melting of metals (in particular, steels and alloys based on nickel and cobalt) to produce a continuous bar, by gradual melting of at least one consumable electrode (16) in an electrically conductive slag bath (18) held in a short casting die (20). The electrode melting rate in kg/hr is set to a value equal to 1.5 to 30 times the bar diameter in mm, with the ratio of the cross-sectional area of one or more electrodes to the cross-sectional area of the bar chosen greater than 0.5. The apparatus used for implementation of the method includes at least one consumable electrode (16) and a continuous casting die (20) joined to a current source (10). The die is provided with an exit section determining the bar cross-section, and a broadened upper section (22) for a slag bath (18). At least one current-carrying element (42) is built into the die wall (28).

IPC 1-7

C22B 9/18; **B22D 23/10**

IPC 8 full level

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CPC (source: EP US)

B22D 23/10 (2013.01 - EP US); **C22B 9/18** (2013.01 - EP US)

Citation (examination)

GB 1413508 A 19751112 - BRITISH STEEL CORP

Cited by

AT410413B; AT410412B; EP0800879A3; AT408528B; CN108136493A; WO0238820A3; WO0240726A1; WO2021135223A1; EP1339885B2

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