Title (en)

CONTINUOUS CASTING OF COPPER ALLOYS

Publication

EP 0499117 A3 19920930 (DE)

Application

EP 92101770 A 19920204

Priority

DE 4103963 A 19910209

Abstract (en)

[origin: EP0499117A2] The invention relates to a process for continuous casting of thin slabs or round ingots, with a diameter of 8-40 mm, of copper alloys which tend to segregate during solidification. <??>To improve the ductility and to prevent segregations, it is provided to electromagnetically stir the melt within the continuous casting mould, the stirring power being about 0.5-100 W/cm<3> and the takeoff speed of the cast strand in the range of 0.05-1.3 m/min. <??>The process according to the invention is preferably suitable for continuous casting of thin slabs of copper-nickel-tin alloys with about 9-18% nickel and 5-10% tin which are to have an extremely fine-grained structure. <IMAGE>

IPC 1-7

B22D 11/10

IPC 8 full level

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CPC (source: EP US)

B22D 11/004 (2013.01 - EP US); **B22D 11/115** (2013.01 - EP US); **B22D 11/122** (2013.01 - EP US)

Citation (search report)

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- [A] EP 0051221 A1 19820512 - CONCAST HOLDING AG [CH]
- [A] EP 0238844 A1 19870930 - SCHLOEMANN SIEMAG AG [DE]
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- [A] PATENT ABSTRACTS OF JAPAN vol. 6, no. 253 (M-178)11. Dezember 1982 & JP-A-57 149 052 (SUMITOMO KEIKINZOKU KOGYO K.K.) 14. September 1982
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 432 (M-874)27. September 1989 & JP-A-1 166 868 (CHUETSU GOKIN CHUKO K.K.)

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EP 0499117 A2 19920819; **EP 0499117 A3 19920930**; **EP 0499117 B1 19950809**; AT E126109 T1 19950815; CA 2060860 A1 19920810; CA 2060860 C 19980623; DE 4103963 A1 19920813; DE 59203148 D1 19950914; ES 2076571 T3 19951101; FI 920521 A0 19920207; FI 920521 A 19920810; FI 97109 B 19960715; FI 97109 C 19961025; JP 3073589 B2 20000807; JP H07164109 A 19950627; US 5265666 A 19931130

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