Title (en)

PROCESS FOR PRODUCING THIN METAL BAR

Publication

EP 0311602 B1 19910724 (DE)

Application

EP 86903224 A 19860527

Priority

DE 8600219 W 19860527

Abstract (en)

[origin: WO8707192A1] In a process for producing thin metal bar, in particular steel bar, having a thickness of less than 20 mm, an uncooled clean metal section having a low energy potential is placed in contact with a melt, which is made to crystallize on the format, the fitness of the metal bar being determined by the duration of contact. An economical process and a metallurgically usable product can be obtained by placing in contact a metal section (5) having a fitness of between 0.1 and 0.4 mm with a melt (4) for a certain maximum time which depends on the difference in energy potential between the low energy potential of the uncooled metal section (5) and the higher energy potential of the melt (4) before contact is made with the section (5). Depending on this maximum permissible contact time, a metal bar having a total thickness (12) of between 6 and 10 times the thickness of the section (5) is withdrawn from the melt; the bar consists of crystals which are deposited without interphase on the section and of other materials from the melt (4).

IPC 1-7

B22D 11/00

IPC 8 full level

B22D 11/00 (2006.01); **B22D 23/04** (2006.01)

CPC (source: EP KR)

B22D 11/00 (2013.01 - KR); **B22D 11/008** (2013.01 - EP)

Cited by

EP0915181A1; DE19545259A1; DE4426705C1; DE19509681C1; DE19519068C1; DE19814988A1; DE19814988C2; DE19731124C1; DE19638905C1; US6051278A; US5722151A; US5881441A; CN1043317C; WO9429048A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 8707192 A1 19871203; AT E65436 T1 19910815; DE 3680547 D1 19910829; DE 3690741 D2 19890817; DK 165581 B 19921221; DK 165581 C 19930503; DK 36688 A 19880322; DK 36688 D0 19880126; EP 0311602 A1 19890419; EP 0311602 B1 19910724; JP 2655143 B2 19970917; JP H01503046 A 19891019; KR 880701148 A 19880725; KR 950002966 B1 19950329

DOCDB simple family (application)

DE 8600219 W 19860527; AT 86903224 T 19860527; DE 3680547 T 19860527; DE 3690741 T 19860527; DK 36688 A 19880126; EP 86903224 A 19860527; JP 50297186 A 19860527; KR 880700089 A 19880127