

Title (en)
FERROUS METAL ALLOYS, IN PARTICULAR FOR CASTING ROLLING MILL ROLLS

Title (de)
EISENMETALLGUSSWERKSTOFFE, INSBESONDERE FÜR WALZROLLEN

Title (fr)
METAUX FERREUX COULES, EN PARTICULIER POUR CYLINDRES DE LAMINAGE

Publication
EP 0680521 B1 20010314 (EN)

Application
EP 94900231 A 19931119

Priority
• GB 9302380 W 19931119
• GB 9224271 A 19921119
• GB 9315356 A 19930723

Abstract (en)
[origin: WO9411541A1] A method of making an engineering ferrous metal comprising the steps of adding to liquid engineering ferrous metal solid alloy carbide particles and thereafter permitting the ferrous metal to solidify. The alloy carbide particles are coated with iron or an iron alloy to allow wetting to occur between the powder and the liquid ferrous metal and the particles have a density which matches that of the ferrous metal to provide a uniform distribution of the carbide particles in the ferrous metal. A roll may be made having at least a shell made of metal by such a method by centrifugal casting or electroslog remelting.

IPC 1-7
C22C 1/10; B22F 1/02; C22C 32/00; C21C 7/00

IPC 8 full level
B22D 19/14 (2006.01); **B21B 27/00** (2006.01); **B22D 13/02** (2006.01); **B22D 23/10** (2006.01); **B22F 1/17** (2022.01); **C21C 7/00** (2006.01); **C22B 9/18** (2006.01); **C22C 1/05** (2006.01); **C22C 1/10** (2006.01); **C22C 32/00** (2006.01)

CPC (source: EP KR US)
B21B 27/00 (2013.01 - EP); **B22D 23/10** (2013.01 - EP); **B22F 1/17** (2022.01 - EP KR US); **C21C 7/00** (2013.01 - KR); **C21C 7/0006** (2013.01 - EP); **C22B 9/18** (2013.01 - EP); **C22C 1/055** (2013.01 - EP); **C22C 1/10** (2013.01 - KR); **C22C 1/1068** (2013.01 - EP); **C22C 32/0026** (2013.01 - EP US)

Citation (examination)
EP 0550725 A1 19930714 - LONDON SCANDINAVIAN METALL [GB]

Cited by
DE10253577A1; DE10253577B4

Designated contracting state (EPC)
AT BE CH DE DK ES FR GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9411541 A1 19940526; AT E199747 T1 20010315; AU 5530494 A 19940608; BR 9307499 A 19990601; DE 69330035 D1 20010419; DE 69330035 T2 20010621; DK 0680521 T3 20010417; DK 0680521 T5 20010611; EP 0680521 A1 19951108; EP 0680521 B1 20010314; ES 2155087 T3 20010501; GB 2289288 A 19951115; GB 2289288 B 19970416; GB 9510006 D0 19950712; JP H08506143 A 19960702; KR 950704526 A 19951120

DOCDB simple family (application)
GB 9302380 W 19931119; AT 94900231 T 19931119; AU 5530494 A 19931119; BR 9307499 A 19931119; DE 69330035 T 19931119; DK 94900231 T 19931119; EP 94900231 A 19931119; ES 94900231 T 19931119; GB 9510006 A 19931119; JP 51189193 A 19931119; KR 19950702039 A 19950519