Title (en)

POROUS AGGLOMERATES CONTAINING IRON AND AT LEAST ONE FURTHER ELEMENT FROM GROUPS 5 OR 6 OF THE PERIODIC TABLE FOR USE AS AN ALLOYING AGENT

Title (de)

PORÖSE AGGLOMERATE, ENTHALTEND EISEN UND MINDESTENS EIN WEITERES ELEMEMT DER GRUPPEN 5 ODER 6 DES PERIODENSYSTEMS ZUR VERWENDUNGS ALS LEGIERUNGSMITTEL

Title (fr)

AGGLOMERATS POREUX CONTENANT DU FER ET AU MOINS UN AUTRE ELEMENT DES GROUPES 5 OU 6 DE LA CLASSIFICATION PERIODIQUE DES ELEMENTS, A UTILISER COMME ELEMENT D'ALLIAGE

Publication

EP 1252342 A1 20021030 (DE)

Application

EP 00947658 A 20000717

Priority

- AT 0000197 W 20000717
- AT 1792000 A 20000204

Abstract (en)

[origin: WO0157279A1] The invention relates to agglomerates containing iron and at least one other element from groups 5 or 6 of the periodic table, in particular, molybdenum or tungsten. The invention is characterised in that said agglomerates have a porosity in the range from 20 to 65 vol %, in particular, from 30 to 45 vol %. A rapid dissolution in a metal melt is thus achieved. According to the invention, the agglomerates, in particular, contain molybdenum as the further element, preferably in an amount in the range of 60 to 80 wt. %. The particle density of said agglomerates is preferably 4.2 to 6.3 g/cm3. Said agglomerates are produced by reduction of a mixture of iron oxide and molybdenum, whereby the reduced metal is formed into briquettes without the addition of any binders and the Fe-Mo product in briquette form is then sintered.

IPC 1-7

C21C 7/00; C21C 5/52; C22C 35/00; C22C 33/02; C22C 38/12; C22B 1/24; B22F 9/20

IPC 8 full level

B22F 3/11 (2006.01); **C21C 5/52** (2006.01); **C21C 7/00** (2006.01); **C22B 1/24** (2006.01); **C22C 1/04** (2006.01); **C22C 33/02** (2006.01); **C22C 33/04** (2006.01); **C22C 38/00** (2006.01); **C22C 38/04** (2006.01); **C22C 38/12** (2006.01); **C22C 38/18** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/44** (2006.01)

CPC (source: EP KR US)

C21C 5/5264 (2013.01 - EP KR US); **C21C 7/0006** (2013.01 - EP KR US); **C22B 1/24** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); B22F 2998/00 (2013.01 - EP US); C21C 2007/0062 (2013.01 - KR); Y02P 10/20 (2015.11 - EP US)

Citation (search report)

See references of WO 0157279A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0157279 A1 20010809; AT 409271 B 20020725; AT A1792000 A 20011115; AU 6138400 A 20010814; CA 2397524 A1 20010809; CN 1206374 C 20050615; CN 1433483 A 20030730; EP 1252342 A1 20021030; JP 2003529678 A 20031007; KR 100475042 B1 20050310; KR 20020080409 A 20021023; RU 2244025 C2 20050110; TW 491906 B 20020621; US 2003106395 A1 20030612

DOCDB simple family (application)

AT 0000197 W 20000717; AT 1792000 A 20000204; AU 6138400 A 20000717; CA 2397524 A 20000717; CN 00818761 A 20000717; EP 00947658 A 20000717; JP 2001555902 A 20000717; KR 20027010095 A 20020805; RU 2002121485 A 20000717; TW 89116942 A 20000821; US 21053102 A 20020801