

Title (en)
APPARATUS FOR AND PROCESS OF WATER GRANULATING MATTE OR SLAG

Title (de)
VERFAHREN UND VORRICHTUNG ZUM GRANULIEREN VON SCHLACKEN IN WASSER

Title (fr)
PROCEDE ET DISPOSITIF DE GRANULATION A L'EAU DE MATTE OU DE SCORIES

Publication
EP 0988256 A1 20000329 (EN)

Application
EP 98923836 A 19980528

Priority
• US 9810882 W 19980528
• US 86648497 A 19970530

Abstract (en)
[origin: WO9854103A1] Molten matte or slag is water granulated by feeding molten matte or slag through a launder (10a, 10b) to a granulator tank (11a, 11b). Tank (11a, 11b) comprises sloping walls and is equipped with adjustable overflow weirs (22b) and one or more spray nozzles (19a, 19b). Nozzles (19a, 19b) are positioned so water that they emit impacts substantially all of the molten matte or slag that is fed to granulator tank (11a, 11b). Granulation tank (11a, 11b) is optionally coated with a polymeric material to reduce the potential for phreatic explosions. The granulator is optionally equipped with a gas offtake (16b) which can be connected directly to quench tower (14b) which in turn can be connected to an induced ventilation system (15). The granulator is preferably fitted with an explosion relief opening (27b) consisting of durable channels (28b) with explosion relief opening (27b) preferably covered with a polymeric material (29b).

IPC 1-7
C03B 37/00; B22F 9/06; B01J 2/00; C04B 5/02

IPC 8 full level
B02C 19/00 (2006.01); **B01J 2/00** (2006.01); **C03B 19/10** (2006.01); **C03B 37/00** (2006.01); **C04B 5/02** (2006.01); **C21B 3/06** (2006.01); **C21B 3/08** (2006.01)

CPC (source: EP KR)
C03B 19/1045 (2013.01 - EP); **C03B 37/00** (2013.01 - KR); **C21B 3/06** (2013.01 - EP); **C21B 3/08** (2013.01 - EP); **C21B 2400/024** (2018.07 - EP); **C21B 2400/062** (2018.07 - EP); **C21B 2400/072** (2018.07 - EP); **C21B 2400/074** (2018.07 - EP); **Y02W 30/50** (2015.05 - EP)

Designated contracting state (EPC)
DE ES SE

DOCDB simple family (publication)
WO 9854103 A1 19981203; AU 730145 B2 20010301; AU 7603398 A 19981230; BG 103935 A 20000731; BG 64257 B1 20040730; BR 9809195 A 20000801; CA 2290500 A1 19981203; CA 2290500 C 20070320; CN 1114565 C 20030716; CN 1259108 A 20000705; EP 0988256 A1 20000329; EP 0988256 A4 20000719; JP 2002501471 A 20020115; KR 100507883 B1 20050817; KR 20010013038 A 20010226; PL 186835 B1 20040331; PL 337082 A1 20000731; RU 2203864 C2 20030510; TR 199902919 T2 20000221; YU 62099 A 20001228

DOCDB simple family (application)
US 9810882 W 19980528; AU 7603398 A 19980528; BG 10393599 A 19991130; BR 9809195 A 19980528; CA 2290500 A 19980528; CN 98805669 A 19980528; EP 98923836 A 19980528; JP 50090899 A 19980528; KR 19997011014 A 19980528; PL 33708298 A 19980528; RU 99128049 A 19980528; TR 9902919 T 19980528; YU 62099 A 19980528