

Title (en)
Ash Melting Device

Title (de)
Ascheschmelzvorrichtung

Title (fr)
Dispositif de fusion des cendres

Publication
EP 1288569 A3 20031203 (EN)

Application
EP 01000791 A 20011221

Priority
JP 2001308067 A 20010829

Abstract (en)
[origin: EP1288569A2] An ash melting device employing the means of using a crucible (4) with a three-layer (24,25,26) structure, using an auxiliary burner (27) for prevention of the lowering of temperature in the vicinity of the discharge outlet (13) employing furnace walls with a four-layer (20-23) structure to improve the heat insulating property and thereby improve the durability, providing lids (2) at both the left and right sides to enable the crucible to be taken out readily, etc. This ash melting device is intended to significantly improve durability even after a long period of use at a high temperature of 1600 to 1700 DEG C or more, to resolve the problem of prevention of use of the melting furnace due to clogging of the vicinity of the discharge outlet by the cooling and solidification of the ash melt, to reduce fuel cost by the improvements in thermal efficiency through improvement of the heat insulating property of the furnace walls, and to enable the crucible to be exchanged readily in a short time. <IMAGE>

IPC 1-7
F23G 5/08; **F23G 5/44**; **F23G 7/00**; **F23M 5/00**

IPC 8 full level
F23J 1/00 (2006.01); **F23G 5/08** (2006.01); **F23G 5/44** (2006.01); **F23G 7/00** (2006.01); **F23M 5/00** (2006.01); **F27B 14/10** (2006.01); **F27B 14/14** (2006.01); **F27D 1/00** (2006.01)

CPC (source: EP KR US)
F23G 5/085 (2013.01 - EP US); **F23G 5/44** (2013.01 - EP US); **F23G 7/00** (2013.01 - EP KR US); **F23M 5/00** (2013.01 - EP US); **F23G 2209/30** (2013.01 - EP US); **F23M 2900/05004** (2013.01 - EP US)

Citation (search report)

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EP 1288569 A2 20030305; **EP 1288569 A3 20031203**; CA 2365597 A1 20030228; CN 1407275 A 20030402; JP 2003074828 A 20030312; KR 20030019046 A 20030306; TW 542884 B 20030721; US 2003041788 A1 20030306

DOCDB simple family (application)
EP 01000791 A 20011221; CA 2365597 A 20011217; CN 02106569 A 20020228; JP 2001308067 A 20010829; KR 20020000558 A 20020105; TW 90129919 A 20011204; US 9644702 A 20020312