

Title (en)
METHOD FOR THE INSOLUBILISATION AND CONSOLIDATION OF USED BRASQUES FROM HALL-HEROULT ELECTROLYTE VESSELS

Title (de)
VERFAHREN ZUM UNLOESLICHMACHEN UND KONSOLIDIEREN VON VERBRAUCHTEN AUSKLEIDUNGENDER ELEKTROLYTISCHEN HALL- HEROULT ZELLEN

Title (fr)
PROCEDE D'INSOLUBILISATION ET DE CONSOLIDATION DE BRASQUES USEES PROVENANT DES CUVES D'ELECTROLYSE HALL-HEROULT

Publication
EP 0946449 A1 19991006 (FR)

Application
EP 97947133 A 19971125

Priority
• FR 9702123 W 19971125
• FR 9614723 A 19961126

Abstract (en)
[origin: FR2756198A1] The invention concerns a method for the insolubilisation and consolidation in the form of pellets of used brasques from electrolyte vessels for producing aluminium comprising the grinding of said brasques and mixing them closely with various refractory pulverulent additives before burning characterised in that it consists in: introducing a first additive selected from the group of aluminium silicates for fixing the alkaline metals during burning; introducing a second additive which, during burning, will combine with the saturating fluorine-containing compounds to form new stable and insoluble compounds and by its non-combined supernatant fraction, will ensure the consolidation of the mixture, and this additive is selected from the group of calcium oxides and salts and preferably of lime cements and mortars; carrying out a forming by agglomerating in the form of pellets the close mixture of used ground brasques with said first and second pulverulent additives before burning at a temperature between 700 DEG C and 950 DEG C.

IPC 1-7
C04B 18/02; B09B 3/00

IPC 8 full level
A62D 3/33 (2007.01); **C04B 18/02** (2006.01); **A62D 101/40** (2007.01); **A62D 101/45** (2007.01); **A62D 101/49** (2007.01)

CPC (source: EP US)
A62D 3/33 (2013.01 - EP US); **C04B 18/023** (2013.01 - EP US); **A62D 2101/40** (2013.01 - EP US); **A62D 2101/45** (2013.01 - EP US); **A62D 2101/49** (2013.01 - EP US); **Y02W 30/91** (2015.05 - EP US)

Citation (search report)
See references of WO 9823551A1

Designated contracting state (EPC)
DE ES GB IT

DOCDB simple family (publication)
FR 2756198 A1 19980529; **FR 2756198 B1 19981218**; AU 5229298 A 19980622; AU 726174 B2 20001102; CA 2273004 A1 19980604; CA 2273004 C 20070515; EP 0946449 A1 19991006; NO 325224 B1 20080303; NO 992511 D0 19990525; NO 992511 L 19990726; US 5947888 A 19990907; WO 9823551 A1 19980604

DOCDB simple family (application)
FR 9614723 A 19961126; AU 5229298 A 19971125; CA 2273004 A 19971125; EP 97947133 A 19971125; FR 9702123 W 19971125; NO 992511 A 19990525; US 97753797 A 19971125