

Title (en)

GLASS MELTING FURNACE, ESPECIALLY FOR THE VITRIFICATION OF WASTE

Publication

EP 0465688 B1 19930915 (DE)

Application

EP 90113030 A 19900707

Priority

EP 90113030 A 19900707

Abstract (en)

[origin: EP0465688A1] The invention relates to a glass melting furnace, especially for the vitrification of waste, - having a lower furnace (10) which is constructed from refractory material and, during the operation of the furnace (1), contains a glass melt (12) and a glass gall layer (13) on top of the latter, - having an upper furnace (11), likewise constructed from refractory material - having electrodes (3) for electric heating of the glass melt (12), - having a charging device for introducing material to be melted into the furnace (1) and - having one withdrawal device in each case for melted glass and for glass gall. The new glass melting furnace is characterised in that - the electrodes (3) are attached to a hollow electrode holder (2) carrying a cooling medium and ending above the glass gall level (13') and are passed from above through the glass gall layer (13) into the glass melt (12) and - the electrodes (3) are of two-part design, with an electrode top part (30') lying in the glass gall layer (13) and composed of pure chromium or steel strengthened by oxide dispersion and with an electrode bottom part (30) lying in the glass melt (12) and composed of molybdenum, platinum, tungsten or alloys thereof. <IMAGE>

IPC 1-7

H05B 3/03

IPC 8 full level

H05B 3/03 (2006.01)

CPC (source: EP)

H05B 3/03 (2013.01)

Cited by

EP1613131A1; DE102004031241A1; DE102004031241B4; DE102006041106B4; DE102006041106A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0465688 A1 19920115; EP 0465688 B1 19930915; AT E94715 T1 19931015; DE 59002761 D1 19931021; DK 0465688 T3 19940314; ES 2045666 T3 19940116

DOCDB simple family (application)

EP 90113030 A 19900707; AT 90113030 T 19900707; DE 59002761 T 19900707; DK 90113030 T 19900707; ES 90113030 T 19900707