

Title (en)  
ARC FURNACE WITH AN ELECTRODE RECEIVING CHAMBER

Title (de)  
LICHTBOGENOFEN MIT ELEKTRODENAUFNAHMERaum

Title (fr)  
FOUR A ARC AVEC LOGEMENT D'ELECTRODE

Publication  
**EP 0909333 A1 19990421 (DE)**

Application  
**EP 97918129 A 19970411**

Priority  
• DE 19626389 A 19960701  
• EP 9701808 W 19970411

Abstract (en)  
[origin: DE19626389A1] An arc furnace has a furnace vessel, a furnace inner chamber and at least one electrode (4) that projects into the furnace inner chamber. The furnace is characterised by an electrode receiving chamber (5) accessible from one side of the furnace vessel, thermally shielded from the furnace inner chamber and provided with at least one passage (9) for the electrode (4) oriented towards the furnace inner chamber. This electrode receiving chamber (5) designed as a depression allows a furnace vessel with a great overall height to be driven with a relatively short electrode (4) which thanks to its small, free and clamped length has a lesser tendency to break.

IPC 1-7  
**C21C 5/52**; **F27B 1/02**; **F27B 3/08**; **H05B 7/10**; **F27D 11/10**

IPC 8 full level  
**C21C 5/52** (2006.01); **F27B 1/02** (2006.01); **F27B 3/00** (2006.01); **F27B 3/08** (2006.01); **F27B 3/18** (2006.01); **H05B 7/10** (2006.01)

CPC (source: EP KR)  
**C21C 5/52** (2013.01 - KR); **F27B 1/02** (2013.01 - KR); **F27B 3/08** (2013.01 - KR); **F27B 3/085** (2013.01 - EP); **F27B 3/186** (2013.01 - EP); **H05B 7/10** (2013.01 - EP KR)

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Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

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