

Title (en)  
TUNNEL FURNACE WITH FURNACE CARS COOLED AT THE UNDERSIDE

Publication  
**EP 0227927 B1 19890125 (DE)**

Application  
**EP 86115658 A 19861111**

Priority  
DE 3541015 A 19851119

Abstract (en)  
[origin: US4722682A] Transverse sub-chambers are defined beneath a train of kiln cars. Pressure equalization is permitted with respect to the firing chamber thereabove but very little air will actually pass therebetween because there is no other substantial air passageway leading into or out of the sub-chamber. Rather, heat exchange cooling apparatus is employed in each sub-chamber so as to set up convention air currents within the sub-chamber to cool the underside of the kiln car. The heat exchanger units in different sub-chambers are preferably individually controllable so as to provide a controllable degree of undercar cooling as a function of location along the tunnel kiln.

IPC 1-7  
**F27B 9/12**; **F27B 9/26**; **F27B 9/30**; **F27D 9/00**

IPC 8 full level  
**F27B 9/12** (2006.01); **F27B 9/26** (2006.01); **F27B 9/30** (2006.01); **F27D 9/00** (2006.01)

CPC (source: EP US)  
**F27B 9/262** (2013.01 - EP US); **F27D 9/00** (2013.01 - EP US)

Cited by  
DE9103904U1

Designated contracting state (EPC)  
AT BE CH FR GB IT LI NL

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**US 4722682 A 19880202**; AT E40461 T1 19890215; AU 579267 B2 19881117; AU 6551486 A 19870521; DE 3541015 C1 19860911; EP 0227927 A1 19870708; EP 0227927 B1 19890125; EP 0227927 B2 19921119

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**US 93092486 A 19861117**; AT 86115658 T 19861111; AU 6551486 A 19861119; DE 3541015 A 19851119; EP 86115658 A 19861111