

Title (en)
SWITCHING PLATFORM FOR THE RUNNING OF A TUNNEL FURNACE

Publication
EP 0316527 A3 19900321 (DE)

Application
EP 88114093 A 19880830

Priority
DE 3738527 A 19871113

Abstract (en)
[origin: US4929177A] An especially adapted kiln car transfer apparatus includes a transfer carriage for supporting at least one kiln car. The transfer carriage itself is supported upon transverse tracks (i.e., relative to the longitudinal dimension of the tunnel kilns with which the transfer apparatus is associated) so as to be capable of movements between adjacent ends of a pair of tunnel kilns. A generally inverted U-shaped housing is carried by the transfer carriage and defines an interior space sized and configured to accept a kiln car. A reciprocally movable wall structure is disposed within the housing's interior space. The wall structure may thus move between the opposing open ends of the housing in response to the continual advancement of the kiln car onto the transfer carriage, and hence, into the interior space defined by the housing. In such a manner, the movable wall minimizes heat build-up within the transfer apparatus, since only a minimal region of the transfer apparatus is exposed directly to heat radiating from the ware at any give time during the transfer operation. Preferably, transverse seals are associated with the movable wall structure and are adapted to provide a thermal barrier between the kiln car and the carriage assembly.

IPC 1-7
F27B 9/30; **F27D 3/12**; **B61J 1/10**; **B65G 25/00**

IPC 8 full level
B61J 1/10 (2006.01); **B65G 25/00** (2006.01); **F27B 9/02** (2006.01); **F27B 9/26** (2006.01); **F27B 9/30** (2006.01); **F27B 9/38** (2006.01); **F27D 3/00** (2006.01); **F27D 3/12** (2006.01)

CPC (source: EP US)
F27B 9/023 (2013.01 - EP US); **F27B 9/262** (2013.01 - EP US); **F27B 9/38** (2013.01 - EP US); **F27D 3/00** (2013.01 - EP US); **F27B 2009/264** (2013.01 - EP US); **F27D 2003/0061** (2013.01 - EP US)

Citation (search report)
• [A] DE 3420147 C1 19850718 - KELLER OFENBAU GMBH
• [A] DE 1433848 A1 19681017 - INST ZIEGELFORSCHUNG ESSEN E V
• [A] DE 2354463 A1 19750507 - GRIESE KLAUS P

Cited by
CN105758174A; WO9208940A1

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

DOCDB simple family (publication)
US 4929177 A 19900529; AT E76961 T1 19920615; DE 3738527 C1 19880609; DE 3871724 D1 19920709; EP 0316527 A2 19890524; EP 0316527 A3 19900321; EP 0316527 B1 19920603

DOCDB simple family (application)
US 26969188 A 19881110; AT 88114093 T 19880830; DE 3738527 A 19871113; DE 3871724 T 19880830; EP 88114093 A 19880830