

Title (en)

Roll hearth heat-treating furnace, especially one suitable for small metal and ceramic parts.

Title (de)

Rollenherdofen zur Wärmebehandlung, insbesondere von Kleinteilen aus Metall und Keramik.

Title (fr)

Four de traitement thermique à sole à rouleaux, en particulier pour des petits articles céramiques et métalliques.

Publication

EP 0342343 A2 19891123 (DE)

Application

EP 89105863 A 19890404

Priority

DE 3816503 A 19880514

Abstract (en)

Roll hearth heat-treating furnace, especially one suitable for small metal and ceramic parts. <??>The exchange of rolls, which are mounted in the side walls, leads to difficulties in known roll hearth heat-treating furnace constructions in the case of narrow separation. Due to the carrying capacity, the roll diameter cannot be selected as small as required either. <??>It is thus envisaged that the roll bed be constructed of roll table components which each consist of a number of rolls with very small diameters and of two bearing beams which receive the ends of these rolls. By means of this arrangement, the bearing of the rolls is independent of the side walls, because the rolls are received in separate bearing beams which, together with the rolls, form modular elements for the production of the roll bed. <??>Use for roll hearth heat-treating furnaces for the treatment of small parts. <IMAGE>

Abstract (de)

Rollenbett (3) aus Rolltischbauelementen (4), die jeweils aus mehreren Rollen mit sehr kleinen Durchmessern und aus zwei die Enden dieser Rollen (2) aufnehmenden Lagerbalken (5) bestehen wodurch die Lagerung der Rollen unabhängig von den Seitenwänden ist, weil die Rollen in gesonderten Tragbalken aufgenommen sind, die mit den Rollen (2) zusammen modulartige Bausteine zur Herstellung des Rollenbettes (3) bilden.

IPC 1-7

B65G 13/00; F27B 9/24

IPC 8 full level

B65G 13/00 (2006.01); **F27B 9/24** (2006.01)

CPC (source: EP US)

F27B 9/2407 (2013.01 - EP US)

Cited by

US7413436B2; DE102007050934A1; DE102007050932A1; EP1715268A3; FR2718001A1; ES2125749A1; EP1715268A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

DE 3816503 C1 19890216; DD 283865 A5 19901024; DE 58905302 D1 19930923; EP 0342343 A2 19891123; EP 0342343 A3 19900328; EP 0342343 B1 19930818; ES 2046359 T3 19940201; US 5007826 A 19910416

DOCDB simple family (application)

DE 3816503 A 19880514; DD 32857089 A 19890512; DE 58905302 T 19890404; EP 89105863 A 19890404; ES 89105863 T 19890404; US 35179489 A 19890515