

Title (en)

Articles handling process and rotary hearth furnace therefor

Title (de)

Verfahren zum Manipulieren von Werkstücken sowie Drehherdofen hierfür

Title (fr)

Procédé pour le maniement d'articles ainsi qu'un four à sole tournante à cet effet

Publication

EP 1089045 A3 20030716 (DE)

Application

EP 00121081 A 20000928

Priority

DE 19947482 A 19991001

Abstract (en)

[origin: EP1089045A2] Process for manipulating workpieces to be carburized comprises inserting the workpieces or a workpiece magazine on pallets into a rotary furnace in rows corresponding to a prescribed number of workpiece rows, removing from the furnace after carburizing and feeding to a press. The pallets are arranged in the furnace in the number of rows so that the row number is a multiple of the press number. Preferred Features A free place is provided next to the pallets to be removed from the furnace.

IPC 1-7

F27D 3/00; **F27B 9/16**; **C21D 9/00**

IPC 8 full level

C21D 9/00 (2006.01); **F27B 9/16** (2006.01); **F27D 3/00** (2006.01)

CPC (source: EP US)

C21D 9/0018 (2013.01 - EP US); **C21D 9/0037** (2013.01 - EP US); **F27B 9/16** (2013.01 - EP US); **F27D 3/0024** (2013.01 - EP US)

Citation (search report)

- [XA] US 4602904 A 19860729 - JEFFREYS LYMAN W [US]
- [A] DE 29608569 U1 19960814 - HEES KARL MASCHINEN [DE]
- [A] US 2499926 A 19500307 - LLOYD DONALD W
- [A] WIENSTROTH T ET AL: "DREHHERDOFENANLAGE ZUM GAS-AUFKOHLEN MIT ANSCHLIESSENDRER PRESSENHARTUNG", HAERTEREI TECHNISCHE MITTEILUNGEN, CARL HANSER VERLAG. MUNCHEN, DE, vol. 44, no. 2, 1 March 1989 (1989-03-01), pages 121 - 124, XP000008559, ISSN: 0341-101X

Cited by

CN110835721A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1089045 A2 20010404; **EP 1089045 A3 20030716**; **EP 1089045 B1 20070103**; AT E350635 T1 20070115; DE 19947482 A1 20010719; DE 19947482 C2 20020711; DE 50013923 D1 20070215; US 6336808 B1 20020108

DOCDB simple family (application)

EP 00121081 A 20000928; AT 00121081 T 20000928; DE 19947482 A 19991001; DE 50013923 T 20000928; US 67677300 A 20001002