

Title (en)

PROCESS AND WALKING-BEAM FURNACE FOR THE HEATING OF PRODUCTS USED IN FERROUS METALLURGY

Publication

EP 0062697 A3 19830803 (DE)

Application

EP 81108909 A 19811026

Priority

IT 1248281 A 19810331

Abstract (en)

[origin: US4420145A] In the walking beam furnaces, in order to heat metallurgical materials such as billets, bars and the like, having different temperatures of introduction into the furnace and/or different cross sections, so as to discharge materials at uniform temperatures from the furnace, said materials are selected according to their temperature and/or cross section, and are introduced into the furnace through a plurality of side inlet doors while said materials are conveyed along the furnace by means of an external side conveyor, and/or they are discharged from the furnace through a plurality of side outlet doors and are then advanced outside along the furnace by means of an external side conveyor. The external side conveyor can be formed by a walking beam conveyor, timed with the internal walking beam conveyor as to the length and rate of steps, and/or timed in relation therewith so that at each occupied position on the external walking beam conveyor always corresponds an unoccupied position on the internal walking beam conveyor, and vice versa. The external conveyor can be enclosed in a chamber which, if desired, is insulated and is associated with heating means such as the exhaust gases discharged from the furnace.

IPC 1-7

F27B 9/20

IPC 8 full level

F27B 9/20 (2006.01)

CPC (source: EP US)

F27B 9/207 (2013.01 - EP US)

Citation (search report)

- [A] GB 2031564 A 19800423 - ITOH IRON & STEEL WORKS CO LTD
- [A] LA METALLURGIE, Band 99, Nr. 10, Oktober 1967, Zeilen 657-672

Cited by

EP0453329A3; FR2659582A1; US5139418A

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0062697 A2 19821020; EP 0062697 A3 19830803; EP 0062697 B1 19860910; AT E22171 T1 19860915; BR 8201706 A 19830222; DE 3175310 D1 19861016; IT 1145959 B 19861112; IT 8112482 A0 19810331; US 4420145 A 19831213

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