

Title (en)

Process and walking-beam furnace for the heating of products used in ferrous metallurgy.

Title (de)

Verfahren und Hubbalkenofen zur Erwärmung von Eisenhüttenerzeugnissen.

Title (fr)

Procédé et four à longerons mobiles pour le réchauffage de produits sidérurgiques.

Publication

EP 0062697 A2 19821020 (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.

Abstract (de)

Zur Erzielung von gleichmässigen Ofenauslaufftemperaturen bei Eisenhüttenerzeugnissen, insbesondere Knüppeln und Brammen, die mit unterschiedlichen Anfangstemperaturen in einen Hubbalkenofen (1) einlaufen, werden die wärmeren Erzeugnisse mit Hilfe eines ofenäusseren Hubbalkenförderers (9, 10) ausserhalb des Ofens in dessen Längsrichtung vorgeschoben und in den Ofen seitlich durch verschiedene, auf Grund der Temperatur der Erzeugnisse bestimmte Ofeneinlauföffnungen (12, 13, 14) eingeführt.

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CPC (source: EP US)

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