

Title (en)

DEVICE FOR COOLING A SHAFT FURNACE DISTRIBUTION CHUTE SUPPORT TRUNNIONS

Title (de)

VORRICHTUNG ZUM KÜHLEN DER LAGERZAPFEN DES VERTEILERSCHACHTES EINES SCHACHTOFENS

Title (fr)

DISPOSITIF DE REFROIDISSEMENT DES TOURILLONS DE SUPPORT D'UNE GOULOTTE DE DISTRIBUTION D'UN FOUR À CUVE

Publication

**EP 3209962 B1 20180404 (FR)**

Application

**EP 15790049 A 20151021**

Priority

- LU 92581 A 20141022
- EP 2015074302 W 20151021

Abstract (en)

[origin: WO2016062740A1] Device for cooling the support journals (4) of a distribution chute of an installation for charging a shaft furnace, such as a blast furnace, the chute being mounted with the ability to pivot about a horizontal axis (A2) on a ring (1) coaxial with the furnace, the chute being connected in rotation to the journals which are rotated by drive means, being for example connected directly in terms of rotation via their ends (42) to output shafts of reduction gear (3) and comprising internal cooling ducts (43). The cooling device comprises feed and return pipes (5) for the cooling water circulating through the internal ducts, the feed and return pipes (5) being connected to the journals (4) by couplings (51) fixed to the cylindrical surface of the journals, and the feed and return pipes (5) are designed to allow the rotary movement of the couplings (51) about the axis of pivoting of the chute when the chute pivots, notably by passing through oblong slots (22) extending circumferentially in the wall of bearings (2) supporting the driving reduction gear.

IPC 8 full level

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CPC (source: CN EP KR US)

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