

Title (en)

DEVICE FOR COOLING THE OPENING OF A ROTARY KILN BY MEANS OF COOL AIR-BLOWING

Title (de)

VORRICHTUNG ZUR KÜHLUNG DER ÖFFNUNG EINES DREHROHROFENS MITTELS KÜHLLUFTBLASUNG

Title (fr)

DISPOSITIF DE REFROIDISSEMENT D'UNE EMBOUCHURE D'UN FOUR TUBULAIRE ROTATIF PAR SOUFFLAGE D'AIR FRAIS

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2013093212A1] The invention relates to a device (100) for cooling the opening of a rotary kiln by means of cool air-blowing, said kiln comprising a metal cylinder (3) lined internally with a refractory material (73) and being rotatably mounted relative to the frame of the kiln, into which materials are intended to be inserted and fired. The cooling device (100) comprises: the aforementioned cylinder (3) of the rotary kiln and a metal cylinder end part (4) covered with a refractory material (74) and secured to the cylinder (3); two concentric metal casings (5, 6), known as the inner casing (5) and the outer casing (6), which surround the cylinder (3) of the kiln (2) and form two annular channels (50, 60); and ventilation means that allow cool air to flow through said annular channels (50, 60). According to the invention, the device comprises: an annular distribution chamber (8) which surrounds the cylinder (3) of the kiln, is secured to said cylinder (3) and supplies the first channel (50) with air; ventilation means comprising at least one fan (9) and an electric motor actuating said at least one fan (9), said ventilation means being installed on the metal cylinder (3) of the kiln, rotatably mounted therewith, and supplying the distribution chamber (8) in an air-tight manner; and rotating electrical connectors (10, 11) that allow electricity to be supplied to the electric motor(s) of the ventilation means.

IPC 8 full level

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