

Title (en)

WATER COOLED TRANSPORT ROLLER FOR A ROLLER-HEARTH KILN

Title (de)

WASSERGEKÜHLTE TRANSPORTROLLE FÜR EINEN ROLLENHERDOFEN

Title (fr)

ROULEAU DE TRANSPORT REFROIDI PAR EAU DESTINE A UN FOUR A ROULEAUX

Publication

EP 1285209 A1 20030226 (DE)

Application

EP 01955281 A 20010515

Priority

- DE 10024556 A 20000518
- EP 0105516 W 20010515

Abstract (en)

[origin: WO0188452A1] The invention relates to a water cooled transport roller for a roller-hearth kiln, comprising a cylindrical base body (1), a thermal insulation (2) on the outer periphery of the base body and a cooling water conduit (3) placed in a central position in the base body. The cooling water can be fed through the conduit (3) at an end of the base body which is rotationally arranged; it then passes through the conduit and flows back through an annular chamber (4) located between the conduit and the base body after a change in direction on the exit side of the conduit. A shaft (5) which is fixed to the base body exhibits a cavity for receiving the water input end of the conduit, a central bore (7) aligned with the rotation axis of the base body, for feeding the cooling water, as well as drain channels for draining the water backflow, which run into a water collecting chamber. The shaft (5) is rotationally connected to a water distributing head (11) for feeding the central bore (7) with cooling water and extracting the water backflow from the collecting chamber.

IPC 1-7

F27D 3/02

IPC 8 full level

F27D 3/02 (2006.01)

CPC (source: EP KR)

F27B 3/24 (2013.01 - KR); **F27D 3/026** (2013.01 - EP)

Citation (search report)

See references of WO 0188452A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0188452 A1 20011122; CA 2409024 A1 20021115; CN 1429330 A 20030709; DE 10024556 A1 20011129; DE 10024556 C2 20030109; EP 1285209 A1 20030226; KR 20030028740 A 20030410

DOCDB simple family (application)

EP 0105516 W 20010515; CA 2409024 A 20010515; CN 01809702 A 20010515; DE 10024556 A 20000518; EP 01955281 A 20010515; KR 20027015415 A 20021115