

Title (en)

A CHARGING DEVICE FOR A METALLURGICAL REACTOR

Title (de)

LADEVORRICHTUNG FÜR EINEN METALLURGISCHEN REAKTOR

Title (fr)

DISPOSITIF DE CHARGEMENT POUR RÉACTEUR MÉTALLURGIQUE

Publication

EP 2529037 B1 20140212 (EN)

Application

EP 11701398 A 20110125

Priority

- LU 91645 A 20100127
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Abstract (en)

[origin: WO2011092165A1] A charging device for a metallurgical reactor comprises a stationary housing having a lower housing part (104) with an annular rotor (108) therein and an upper housing part (106) having at least one charge material inlet (112; 114) that is offset from the axis of rotation of the rotor (108). The rotor (108) supports a distribution member (116) for distributing charge material circumferentially about its axis of rotation. A feeder spout (120) inside the stationary housing has a longitudinal axis and channels charge material through a central passage (110) in the rotor (108) onto the distribution member (116). A conduit-connecting rotary joint (130) has a stationary part (134) and a rotary part (132) and connects a stationary conduit (154; 155) to a rotary conduit (152; 153) for fluid supply to the rotor (108) and/or to the distribution member (116). The feeder spout (120) has an inlet section (122) arranged in the upper housing part (106) and an outlet section (124) arranged at least partially in the lower housing part (104). The feeder spout (120) is rotatably supported and coupled in rotation to the rotor (108) to rotate together therewith. According to the invention, the rotary joint (130) has a joint diameter that is smaller than the width of the central passage (110) in the rotor. The feeder spout (120) further comprises a support (140) having at least one spoke member (142) fixed to the feeder spout (120) and supporting the rotary part (132) of the rotary joint (130) coaxially with the longitudinal spout axis and above the outlet section (124). The rotary conduit (152; 153) passes from the rotary part (132) of the rotary joint (130) via the support (140) and via the outside of the feeder spout (120) to the rotor (108) and/or to the distribution member (116).

IPC 8 full level

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