Title (en)
BELL AND HOPPER FOR SHAFT FURNACES

Title (de)
GICHTVERSCHLUSS FÜR SCHACHTÖFEN

Title (fr)
FERMETURE DE GUEULARD POUR FOURS VERTICAUX

Publication
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Application
EP 99959405 A 19991211

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Abstract (en)
[origin: US6540958B1] In order to configure a bell and hopper for shaft furnaces, in particular, blast furnaces, comprising a charging bin with a feed tube, a rotating chute carrier with rotary drive, a swiveling chute in the interior of the furnace with drive means arranged external to a housing, in a less failure-prone and a wear resistant way, the drive means for the swivel movement of the chute are to comprise: at least one motor (7) which drives by a respective pinion (8) a crown gear (9), wherein the crown gear (9) engages the spindle gear wheels (11) of at least two spindles (13) distributed about the periphery of the bell and hopper external to the rotating chute carrier (3) for generating a lifting and lowering movement of the spindles, as well as means (14, 15, 17, 21) for transmitting this vertical movement of the spindles onto the tilting shafts (22), which penetrate the inner wall (24) of the chute carrier (3) and from which the chute can be suspended, for generating a swivel and tilting movement of the chute.

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