

Title (en)
APPARATUS FOR SCREENING OVERSIZED HOT SPONGE IRON PRODUCED IN A ROTARY KILN IN THE GASEOUS REDUCTION OF IRON ORE

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Application
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Priority
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Abstract (en)
[origin: US4680009A] The discharge end of the rotary kiln (24) is surrounded by and gas-tightly sealed to a stationary kiln head (2), which contains a rigid, cooled, inclined grate (1). A container (3) for collecting oversize is mounted on the kiln head (2) and is provided at its discharge end with a gate valve (4). The collecting container (3) is surrounded by and gas-tightly sealed to an outer container (5) and is provided with a gas-tight flap valve (6) and with a fitting (7) for a gas-tight connection to a transport container (8). Under the grate (1) the kiln head (2) constitutes a buffer bin (9) for the particles falling through the grate. The buffer bin (9) is succeeded by a batching bin (10), which is provided with a gas-tight upper shutoff valve (11). On its discharge side, the batching bin (10) is provided with a gas-tight lower shutoff valve (12) and with a fitting (13) for a gas-tight connection to a transport container (14). The volume of the batching bin (10) is smaller than the volume of the transport container (14).

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