

**Method for reducing molten raw materials, and
device for carrying out said method**

Abstract

The invention relates to a method for reducing molten raw materials, in which method the raw materials, in a solid or molten state, are placed on a bed comprising coke pieces, which bed is at least partially inductively heated, and the reduced melt that runs off the coke bed is collected and the waste gases are discharged, wherein a coke bed is used which is limited on the inside by a tubeshaped element, wherein the tubeshaped element is heated and the reaction gases from the coke bed are drawn off via a plurality of drawoff openings formed in the tubeshaped element. The invention also relates to a device for reducing molten raw materials, said device having a reactor for accommodating a bed comprising coke pieces and having an induction heater comprising at least one induction coil for inductive heating of the coke bed, wherein: the reactor has a loading opening for the solid and molten raw materials and a discharge opening for the treated melt; the reactor is designed to accommodate a coke bed that has a ringshaped cross section, which coke bed is limited on the inside by a tubeshaped element of the reactor; the tubeshaped element consists of a material suitable for inductive coupling to the induction field of the induction coil, in particular graphite, and said element has a plurality of drawoff openings for drawing off reaction gases from the coke bed.

[No Suitable Figure]