

Title (en)
METHOD AND APPARATUS FOR PRODUCING IRON

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON EISEN

Title (fr)
METHODE ET APPAREIL POUR LA PRODUCTION DE FER

Publication
EP 0686204 A1 19951213 (EN)

Application
EP 94905111 A 19940121

Priority
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Abstract (en)
[origin: WO9419497A1] Method and apparatus for producing iron by melt reduction of concentrate or prereduced concentrate in a melt bath in a reactor, e.g. a converter (10). Concentrate and carbonaceous reducing agent are supplied to the melt bath consisting of a layer (28) of molten iron and a layer (30) of slag floating thereon. Oxygen-containing gas, such as hot air, is blown by blowpipes (38) into a so-called post-combustion zone (37) towards the slag layer so as to combust the reducing gases being discharged and to heat the melt bath. The hot exhaust gases produced in the combustion process are led out through an outlet (12) in the roof of the reactor. The oxygen-containing gas is blown into a post-combustion zone shielded from the walls of the reactor by cooling panels (42) so as to prevent the slag and metal drops splashing up during the blowing from reaching the uncooled walls (11) of the reactor in the gas phase.

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C21B 11/00; **F27D 1/12**

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