

Title (en)
METHOD AND APPARATUS FOR OPERATING A MELTING GASIFIER

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Application
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DE 3742156 A 19871210

Abstract (en)
[origin: EP0319836A1] A process for operating a fusion gasifier (4) is described, in which iron ore-containing raw materials or iron sponge obtained therefrom by direct reduction are fused by addition of carbon carriers and supply of an oxygen-containing gas via oxygen nozzles (6) in a moving bed thus established and are (fully) reduced to molten crude iron or steel raw material. In the event of failure or a reduction in the oxygen supply below a predetermined rate and in the event of a failure of the water-cooling of the oxygen nozzles, the oxygen supply which may still persist is interrupted for the protection thereof and, instead, an inert gas is introduced via the oxygen nozzles into the fusion gasifier. This prevents molten fluid-bed mass from entering the oxygen nozzles and solidifying therein. In the event of failure of the water cooling of the oxygen nozzles, the inert gas serves at the same time as a coolant. <IMAGE>

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