

Title (en)
METHOD FOR SUPERSONICALLY INJECTING OXYGEN INTO A FURNACE

Title (de)
VERFAHREN ZUR ÜBERSCHALLINJEKTION VON SAUERSTOFF IN EINEN OFEN

Title (fr)
PROCEDE D'INJECTION SUPERSONIQUE D'OXYGENE DANS UN FOUR

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Application
EP 06831276 A 20061023

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Abstract (en)
[origin: WO2007057588A1] The invention relates to a method and device for supersonically injecting oxygen into a furnace, in particular a cupola furnace, in which the total oxygen required for the furnace operation is injected with the aid of two distinct circuits, i.e., the first circuit comprising at least one supersonic oxygen injecting nozzle and a second circuit which comprises additionally oxygen injecting means and is connected to the first circuit by pressure-sensitive means, such as a discharging device (or upstream pressure adjuster), in such a way that a stable pressure is obtained in the first circuit upon the attainment of the maximum flowrate thereof, wherein the first circuit can consist of several supersonic nozzle groups.

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