

Title (en)
METHOD FOR INCREASING THE TEMPERATURE HOMOGENEITY IN A PIT FURNACE

Title (de)
VERFAHREN ZUR ERHÖHUNG DER TEMPERATURHOMOGENITÄT IN EINEM SCHACHTOFEN

Title (fr)
PROCÉDÉ POUR AUGMENTER L'HOMOGÉNÉITÉ DE LA TEMPÉRATURE DANS UN FOUR PIT

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Application
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Abstract (en)
[origin: WO2011138013A1] Method for increasing the temperature homogeneity in a pit furnace (200; 300), in which at least two ingots (201; 301) to be heated are caused to lean against a respective one of first and second opposite inner walls of the pit furnace (200; 300) so that the ingots (201; 301) form an elongated space (203; 303) having a V-shaped cross-section between them as seen along the first and second walls. The invention is characterised in that at least one separate lance (211, 212, 221, 222; 311, 312, 321, 322) for an oxidant with an oxygen content of at least 85 percentages by weight and at least one separate lance (210, 220; 310, 320) for fuel are caused to be arranged in a furnace wall with their orifices arranged opening out into the furnace (200; 300) at a distance from each other and so that oxidant and fuel, respectively, are caused to be supplyable to said V-shaped space (203; 303) and to be combustible therein, and in that the orifice of the lance (211, 212, 221, 222; 311, 312, 321, 322) for oxidant is caused to be arranged above the orifice of the fuel lance (210, 220; 310, 320) and to be directed so that the oxidant flows obliquely downwards and along the longitudinal direction of said V-shaped space (203; 303).

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