

Title (en)

IN-FURNACE GAS INJECTION PORT

Title (de)

ÖFFNUNG ZUR EINSPRITZUNG VON GAS IN EINEN OFEN

Title (fr)

ORIFICE D'INJECTION DE GAZ DANS UN FOUR

Publication

EP 1995517 A1 20081126 (EN)

Application

EP 06822958 A 20061027

Priority

- JP 2006322040 W 20061027
- JP 2006068870 A 20060314

Abstract (en)

Tertiary nozzle (3) of port (31) for gas injection into furnace (34) comprising a contracted flow producing channel provided obliquely toward central axis (C) from the upstream side of gas flow so that the gas flow has a velocity component heading from the outer circumferential side of the port (31) toward the central axis (C) and a velocity component heading along the central axis (C) toward the interior of the furnace, and comprising louver (32) disposed for guiding so that the gas flows along the surface of throat wall (26) of enlarged pipe configuration wherein the gas channel is enlarged at a furnace wall opening disposed at an outlet area of the contracted flow producing channel. Accordingly, there can be provided a gas injection port that not depending on conditions, such as the flow rate of gas injected from the port, without inviting any complication of apparatus structuring or cost increase, enables preventing of the growth in lump form of clinker caused by ash adhesion and fusion on the wall surface of throat enlarged pipe portion of the furnace.

IPC 8 full level

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CPC (source: EP US)

F23C 7/008 (2013.01 - EP US); **F23C 7/02** (2013.01 - EP US); **F23C 99/00** (2013.01 - EP US); **F23L 9/02** (2013.01 - EP US);
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