

Title (en)

COMBUSTION METHOD WITH CYCLIC SUPPLY OF OXIDANT

Title (de)

VERBRENNUNGSVERFAHREN MIT ZYKLISCHER OXIDATIONSMITTELZUFUHR

Title (fr)

PROCEDE DE COMBUSTION AVEC ALIMENTATION CYCLIQUE DU COMBURANT

Publication

**EP 1828679 A1 20070905 (FR)**

Application

**EP 05824047 A 20051205**

Priority

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- FR 0452949 A 20041213

Abstract (en)

[origin: WO2006064144A1] The invention concerns a combustion method for industrial furnace comprising an arrangement of two substantially parallel and symmetrical burner assemblies (G, D). Each burner assembly comprises a fuel injector (1<SUB>G</SUB>, 10<SUB>D</SUB>) and three oxidant injectors (1<SUB>G</SUB>, 2<SUB>G</SUB>, 3<SUB>G</SUB>, 1<SUB>D</SUB>, 2<SUB>D</SUB>, 3<SUB>D</SUB>) arranged at increasing distances from the fuel injector. An oxidant supply system cyclically distributes a specific flow of oxidant among some at least of the second and third injectors of the burner assemblies (2<SUB>G</SUB>, 3<SUB>G</SUB>, 2<SUB>D</SUB>, 3<SUB>D</SUB>). The amount of nitrogen monoxide produced upon combustion is thus reduced, while ensuring a good distribution of the heating power in the furnace.

IPC 8 full level

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