

Title (en)

Method and apparatus for burning fuel in stages.

Title (de)

Verfahren und Vorrichtung zum Verbrennen von Brennstoff in Stufen.

Title (fr)

Procédé et dispositif pour brûler du combustible en étapes.

Publication

**EP 0076036 A1 19830406 (EN)**

Application

**EP 82304508 A 19820826**

Priority

US 30641281 A 19810928

Abstract (en)

Burner [10] for a furnace and a method of operating the burner [10] involving a primary [22,38] and secondary [28,46] combustion zone wherein staged fuel and air to both combustion zones [22,38;28,46] is provided. By injection of from about 40% to 60% of the liquid or gaseous hydrocarbon fuel along with about 90% of the total air required to a first reaction zone [22,38] and injection of the remaining fuel with the remaining 10% of the air to a secondary reaction zone [28,46] the formation of NO<sub>x</sub> is significantly suppressed. Such a burner is useful in minimizing NO<sub>x</sub> emissions for a variety of furnace types including both natural draft and forced draft furnaces.

IPC 1-7

**F23C 6/04**; **F23D 15/00**

IPC 8 full level

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Citation (search report)

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