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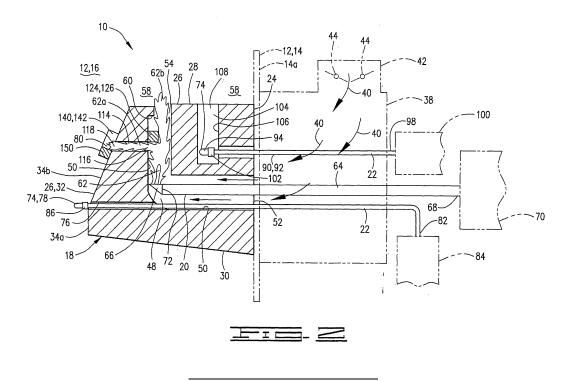
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(54) Burner apparatus and methods

(57) A burner assembly for and method of combusting fuel gas in a furnace is provided. The burner assembly (10) includes a burner tile (18) having a burner throat (48) disposed therethrough. Combustion air is conducted through the burner throat into a combustion zone in the furnace. A pilot assembly (20) is used to generate a pilot flame (62) within the burner throat. Fuel gas is injected into an ignition zone (80) located outside the burner throat

and ignited therein. The pilot flame (62) generated in the burner throat (48) can be used to ignite the fuel gas in the ignition zone (80). The ignited fuel gas is admixed with combustion air in the combustion zone. The burner assembly can be operated without admixing a significant amount of fuel gas with combustion air in the burner throat, which can help control the formation of undesirable nitrogen oxides (NO_X).





EUROPEAN SEARCH REPORT

Application Number EP 09 25 1886

Category	Citation of document with in of relevant passa			evant laim	CLASSIFICATION OF THE APPLICATION (IPC)
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X A	US 5 073 105 A (MAR AL) 17 December 199 * figures 1,7 * * column 1, line 40 * column 3, line 35 * column 4, line 15	* - line 39 *	9,13	2,15 ,6	
X A	US 5 980 243 A (SUR 9 November 1999 (199 * claims 1-4; figure * column 1, line 30 * column 3, line 20 * column 3, line 49	es 1-4 *´ - line 35 * - line 30 *		5 ,6,11	TECHNICAL FIELDS SEARCHED (IPC) F23Q
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