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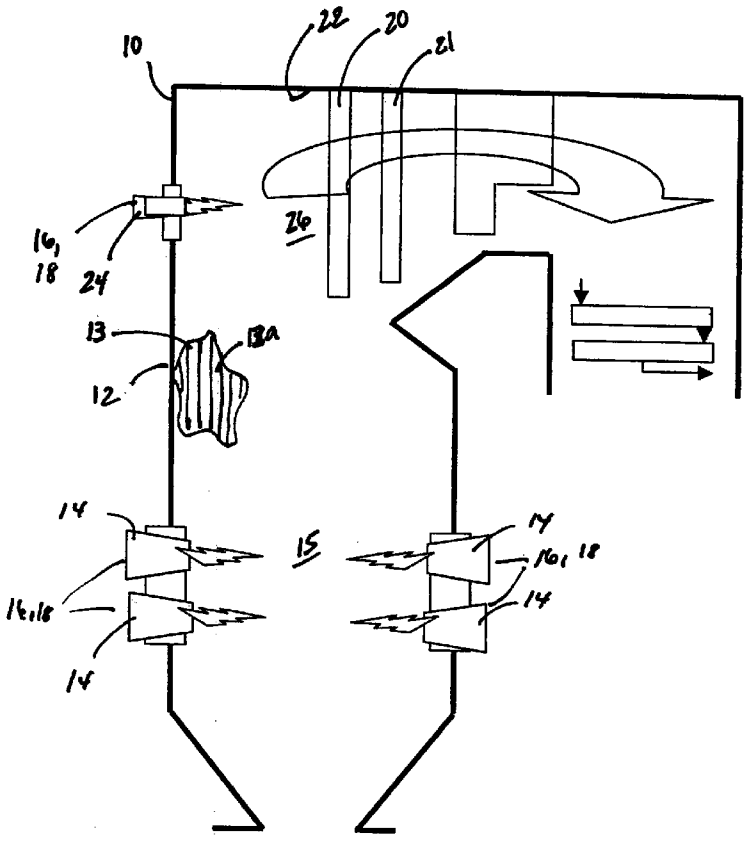
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(54) Title: DEVICE AND METHOD FOR BOILER SUPERHEAT TEMPERATURE CONTROL



(57) Abstract: A boiler (10) designed or retrofitted to produce less greenhouse gasses by using a substantially pure oxygen atmosphere in which to burn fuel. The boiler having a primary burner (14) and water tubes (13a) is provided. The boiler further comprises at least one secondary burner (24) located as needed in a zone (26) above the primary burner area (15) and below the boiler steam outlet. The secondary burner providing heat or energy to increase the temperature and quality of the steam. The secondary burner providing the heat or energy lost through the diminished flow rate of exhaust gases through the boiler as a result of the use of oxygen rather than pressurized air.

WO 2006/054990 A1