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[Continued on next page]

(54) Title: FURNACE AND PROCESS FOR INCINERATING A DECOKE EFFLUENT IN A TWIN-TUBE-PLANE FURNACE

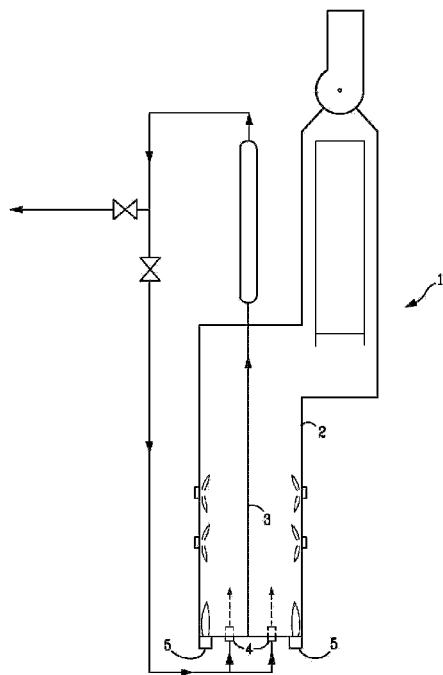


FIG. 1

(57) Abstract: A furnace and method for the cracking of hydrocarbons. The furnace includes a radiant firebox, the radiant firebox comprising a furnace floor having a centerline, a plurality of decoke effluent injection nozzles mounted along or adjacent to the centerline for injecting decoke effluent upward into the radiant firebox, a plurality of burners arranged to form a first line of burners and a second line of burners, each line of burners positioned on opposing sides of the plurality of decoke effluent injection nozzles, a first plane of radiant coils spaced at a distance greater than the distance that the first line of burners is spaced from the centerline of the furnace floor and on the same side of the centerline as the first row of burners, and a second plane of radiant coils spaced at a distance greater than the distance that the second line of burners is spaced from the centerline of the furnace floor and on the same side of the centerline as the second row of burners.



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