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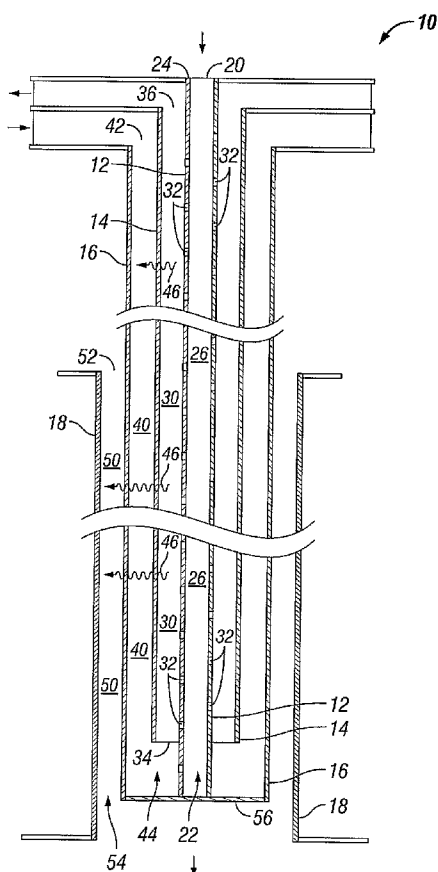
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(54) Title: A MULTI-TUBE HEAT TRANSFER SYSTEM FOR THE COMBUSTION OF A FUEL AND HEATING OF A
PROCESS FLUID AND THE USE THEREOF



(57) Abstract: A four-tube heating system for combusting a fuel and trans-
ferring the heat released therefrom to a process fluid. The heating system
includes, a fuel introduction zone, a combustion zone, an oxidant introduc-
tion zone, and a process fluid zone, wherein the fuel introduction zone is
defined by fuel introduction means for introducing fuel into the combustion
zone that is defined by a reaction tube external to and surrounding the fuel
introduction means, and wherein the oxidant introduction zone is defined by
an oxidant introduction tube external to and surrounding the reaction tube,
and wherein the process fluid zone is defined by a process tube external to
and surrounding the oxidant tube.



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