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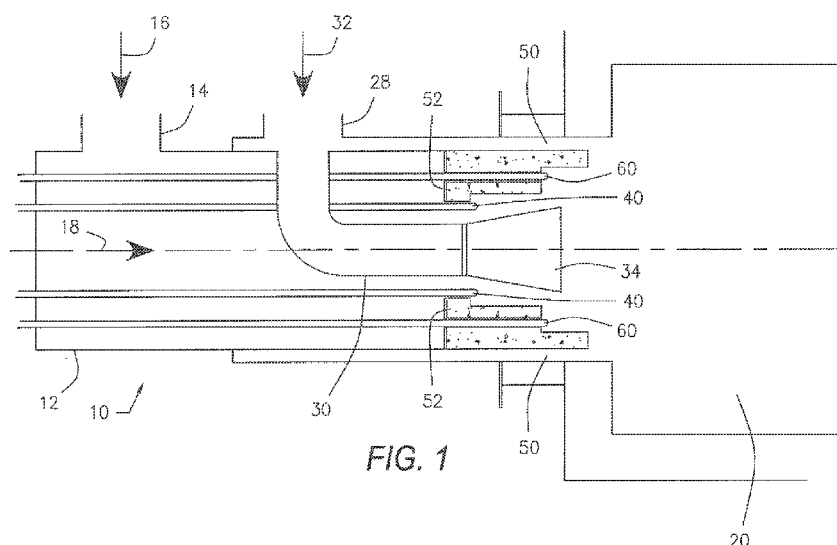
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(54) Title: HIGH EFFICIENCY LOW NO_x EMISSION BURNER APPARATUS



(57) Abstract: A high efficiency low NO_x emission thermal oxidizer burner apparatus. The apparatus includes a plenum chamber having an inlet for introduction of combustion air and includes a combustion chamber in fluid communication with the plenum chamber. A primary waste gas pipe terminates in a lobed tip nozzle through the plenum chamber for introduction of waste gas into the combustion chamber. A primary fuel gas line is in communication with the plenum chamber for introduction of primary fuel gas.