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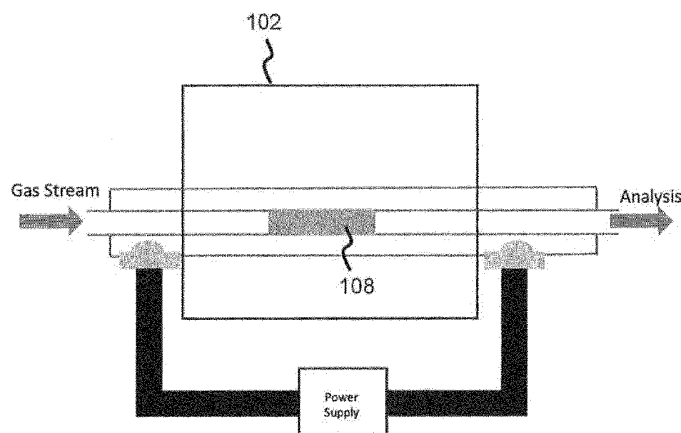


Figure 1

(57) Abstract: The present invention provides a method for catalytic oxidation of alkanes, where the catalyst comprises a photoactive material that is activated when the catalyst is irradiated with UV light. In particular, the method is for the catalytic oxidation of a C1-C5 alkane using an oxidation catalyst comprising a photoactive material, said method comprising the steps of a) activating the photoactive material by irradiating the catalyst with UV light and b) contacting the activated catalyst with a gaseous feedstream comprising an amount of C1-C5 alkane at a temperature of from 150 °C to 600 °C.



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