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(54) Title: SELECTIVE CATALYTIC REDUCTION VIA ELECTROLYSIS OF UREA

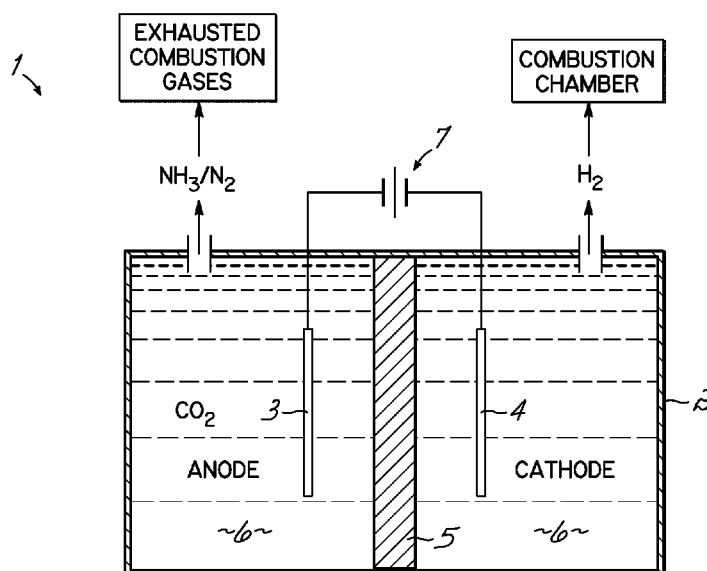


FIG. 2

(57) Abstract: A method and apparatus for producing ammonia suitable for use as a reductant in a selective catalytic reduction (SCR), a selective non-catalytic reduction (SNCR), or a flue gas conditioning system is provided. A method for treating combustion exhaust gas with ammonia is provided that includes the electrolytic hydrolysis of urea under mild conditions. The electrolysis apparatus includes an electrolytic cell 1 including an anode 3, a cathode 4, and an alkaline electrolytic composition of urea 6, which may be operatively coupled to an exhaust gas treatment system to provide an apparatus for reducing nitrogen oxides (NOx) and/or particulate in exhaust gases.