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(54) Title: PLASMA REACTOR FOR GAS TO LIQUID FUEL CONVERSION

(57) Abstract: A non-thermal, repetitively-pulsed gliding discharge reactor includes a high-voltage power source configured to provide a pulsed high-voltage potential; a gas inlet; a liquid sorbent inlet; a product outlet; a plurality of first electrodes connected to the high-voltage power source; a plurality of second electrodes that are grounded; and a trough; the plurality of first electrodes being separated from the plurality of second electrodes by a discharge region.



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