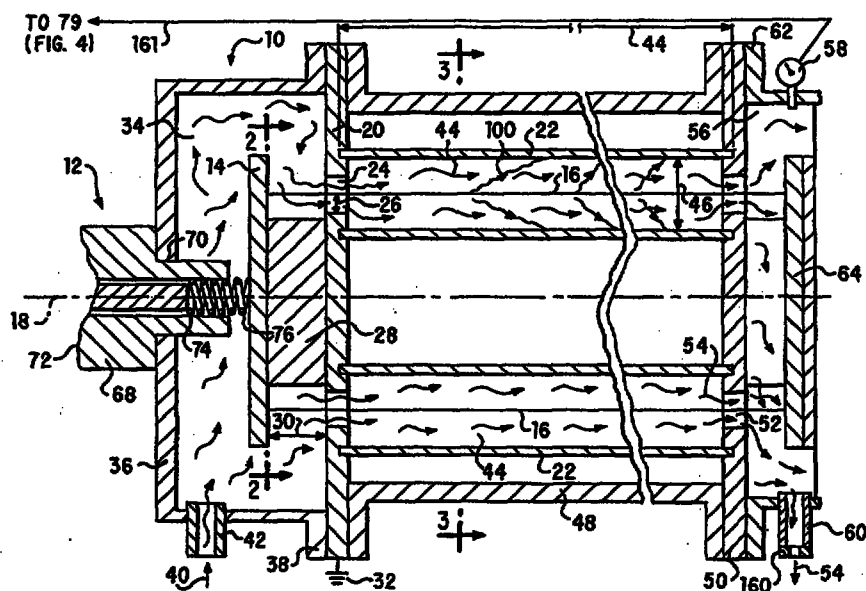




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(54) Title: PULSED CORONA DISCHARGE APPARATUS WITH RADIAL DESIGN



(57) Abstract

An apparatus for remediating a contaminated fluent material, such as a gas, utilizes a pulsed corona discharge. The apparatus includes a reactor section (10) and a power supply section (12). The reactor section (10) has a plurality of first electrodes (16) electrically interconnected to a header plate (14) and a plurality of second electrodes (22) concentrically disposed about each first electrode (16) and electrically interconnected to a reactor plate (20). The placement of the inner electrode (102) within the outer electrode (120) substantially increases the exposed overlapping surface area of the electrodes. The increase in surface area of the electrodes results in a proportional increase in the operational life of the apparatus.