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(54) Title: FLOW FIELD BAFFLE FOR MOLTEN CARBONATE FUEL CELL CATHODE

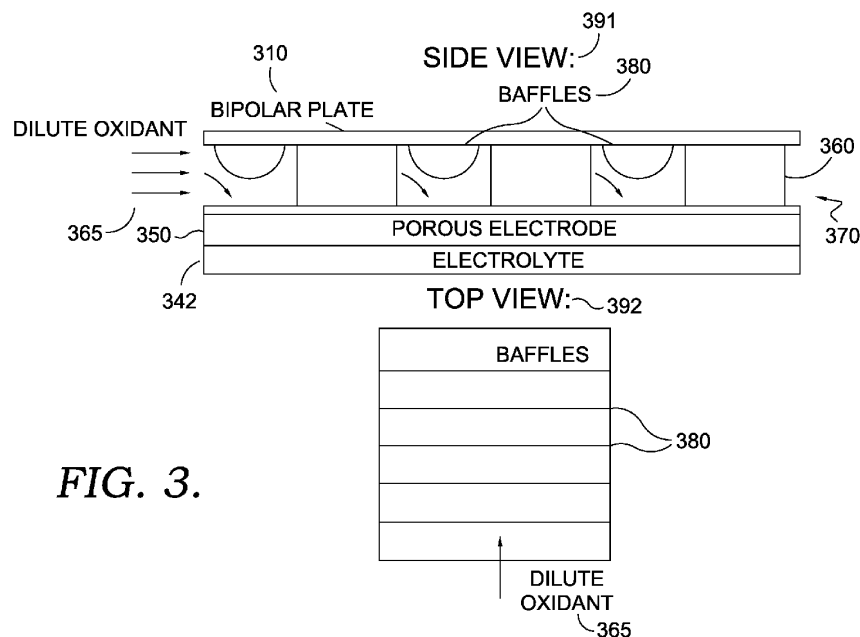


FIG. 3.

(57) Abstract: Molten carbonate fuel cell configurations are provided that include one or more baffle structures within the cathode gas collection volume. The baffle structures can reduce the unblocked flow cross-section of the cathode gas collection volume by 10% to 80%. It has been discovered that when operating a molten carbonate fuel cell under conditions for elevated CO₂ utilization, the presence of baffles can provide an unexpected benefit in the form of providing increased transference and/or increased operating voltage.

[Continued on next page]

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