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(54) Title: METHODS OF OPERATING GAS DISTRIBUTORS

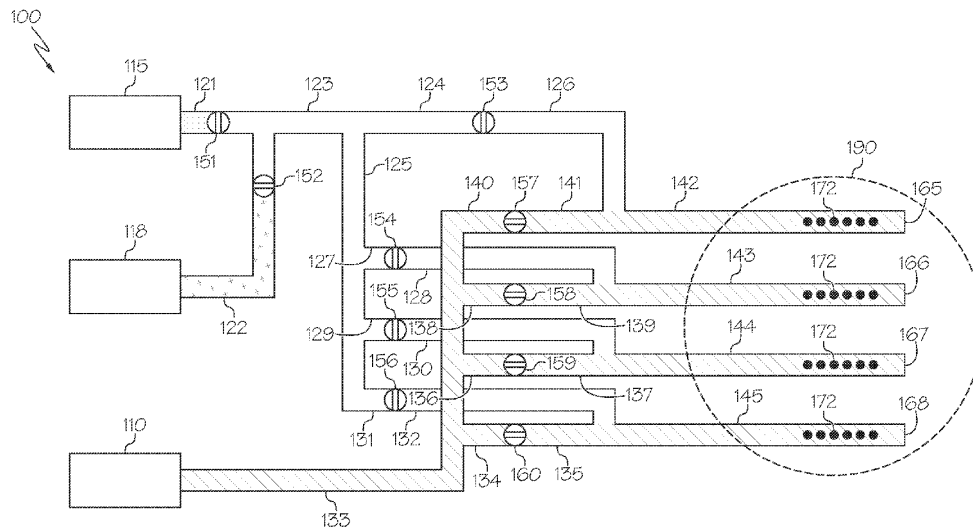


FIG. 1

(57) **Abstract:** According to embodiments disclosed herein, a method of operating gas distributors may include passing a solid particulate to a processing unit, where the processing unit includes at least a first distributor and a second distributor, wherein the first distributor and second distributor is operable to pass a combustible gas and a decoking gas into the processing unit, passing the combustible gas into the processing unit through the first distributor, wherein the combustible gas is contacted with the solid particulate and coke forms on the first distributor, halting the passing of the combustible gas through the first distributor while the combustible gas is passed through the second distributor, passing the decoking gas through the first distributor while the combustible gas is passed through the second distributor, wherein the decoking gas removes coke formed on the first distributor, and resuming the passing of the combustible gas through the first distributor.

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