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(71) Applicant: **W.L. GORE & ASSOCIATES, INC.**

[US/US]; 555 Paper Mill Road, Newark, DE 19711 (US).

(72) Inventors: **SONG, Zhuonan**; 551 Paper Mill Road, Newark, DE 19711 (US). **STARK, Stephen**; 551 Paper Mill Road, Newark, DE 19711 (US).

(74) Agent: **JONAS, Victor P.**; Faegre Drinker Biddle & Reath LLP, 2200 Wells Fargo Center, 90 South Seventh Street, Minneapolis, Minnesota 55402-3901 (US).

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(54) Title: IMPROVING CATALYTIC EFFICIENCY OF FLUE GAS FILTRATION THROUGH SALT FORMATION BY USING LEAST ONE OXIDIZING AGENT

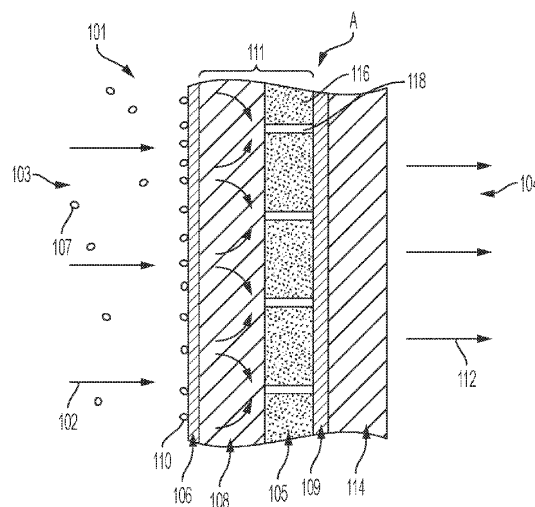


FIG. 1B

(57) Abstract: Systems and methods for increasing removal efficiency of at least one filter medium. In some embodiments, at least one oxidizing agent is introduced into the flue gas stream, so as to react SO₂ with the at least one oxidizing agent to form sulfur trioxide (SO₃), sulfuric acid (H₂SO₄), or any combination thereof. Some of the embodiments further include introducing ammonia (NH₃) and/or dry sorbent into the flue gas stream, so as to react at least some of the sulfur trioxide (SO₃), at least some of the sulfuric acid (H₂SO₄), or any combination thereof, with the ammonia (NH₃) and form at least one salt.

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