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(54) Title: ACCELERATED MIXED GAS INTEGRITY TESTING OF POROUS MATERIALS

(57) Abstract: The invention relates to accelerated mixed gas integrity testing methods, devices, and systems for integrity testing wetted single and multi-layered porous materials., whereby the testing method is non-destructive to the porous materials being tested. The accelerated mixed gas integrity test method includes one or more of the following components: i) a permeate side gas purge component: ii) a permeate side volume reduction component; and iii) a permeate side circulation component. The invention is directed towards reducing the length of time necessary to complete the integrity testing of single and multilayered porous materials, elements and membranes.

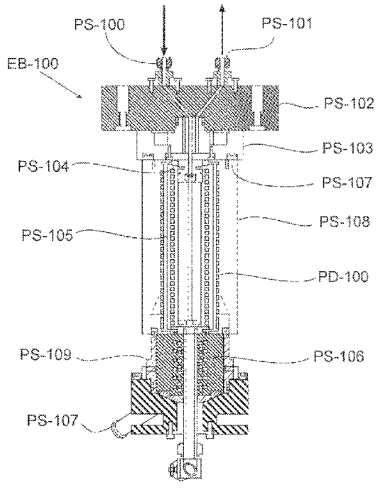

Figure 1

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SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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