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- (54) **Title:** PARTICLE DETECTOR HAVING IMPROVED PERFORMANCE AND SERVICE LIFE

(57) **Abstract:** The present invention relates to generally to components of scientific analytical equipment. More particularly, the invention relates to ion detectors of the type which incorporate electron multipliers and modifications thereto for extending the operational lifetime or otherwise improving performance. The invention may be embodied in the form of a particle detector having one or more electron emissive surfaces and/or an electron collector surface therein, the particle detector being configured such that in operation the environment about the electron emissive surface(s) and/or the electron collector surface is/are different to the environment immediately external to the detector.

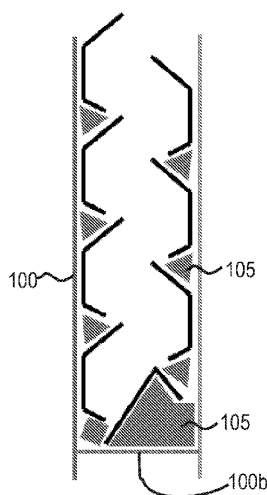


FIG. 8

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