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(54) **Title:** ELECTRON MULTIPLIERS HAVING IMPROVED GAIN STABILITY

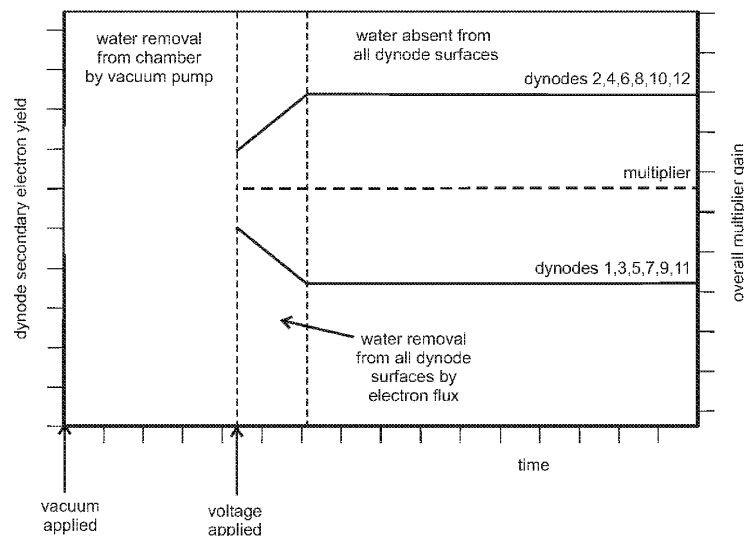


FIG. 1B

(57) **Abstract:** The present invention relates to electron multiplier apparatus of the type used in ion detectors. In one form, the invention is an electron multiplier having two or more electron emissive surfaces, each having a different composition so as to together limit or overcome an acute gain effect on the electron multiplier due to the exposure of the two or more electron emissive surfaces to water molecules. Alternatively, the multiplier may have a single electron emissive surface of mixed composition comprising a first composition component and a second composition component so as to together limit or overcome an acute gain effect on the electron multiplier due to the exposure of the electron emissive surface to water molecules.

[Continued on next page]

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