

Title (en)

AFTERGLOW EMISSION SPECTROSCOPY MONITOR

Title (de)

NACHGLÜHEMISSIONSSPEKTROSKOPIEÜBERWACHUNGS-VORRICHTUNG

Title (fr)

MONITEUR DE SPECTROSCOPIE D'EMISSION A LUEUR DE POST-DECHARGE

Publication

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Application

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Abstract (en)

[origin: WO0223160A1] Afterglow spectroscopy allows observing light emission of gaseous species in absence of direct plasma light. This absence avoids the creation of a background spectrum obscuring weak emission from trace species. The geometry of the invention prevents direct plasma light (3) from reaching the observation window (10) while a lens (10) focuses afterglow emission light on the entrance of a photo multiplier (11). The invention describes a flowing afterglow version monitoring in-situ the cleanup of vacuum tools during pump/purge cycles. The invention also describes an intermittent afterflow version suitable for trace gas analysis at atmospheric pressure.

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