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(71) Applicant: **GASSECURE AS** [NO/NO]; Hoffsveien 70C, N-0377 Oslo (NO).

(71) Applicant *(for MG only)*: **SAMUELS, Adrian James** [GB/GB]; St Bride's House, 10 Salisbury Square, London, EC4Y 8JD (GB).

(72) Inventors: **SAGBERG, Håkon**; Brettevilles gate 7, N-0481 Oslo (NO). **GRENNBERG FISMEN, Britta**; Ekraveien 65 G, N-0757 Oslo (NO). **HESTNES BAKKE, Kari Anne**; Komnesveien 281, N-3647 Hvittingfoss (NO). **TSCHUDI, Jon**; Brinken 18, N-0654 Oslo (NO). **JOHANSEN, Ib-Rune**; Svensenga 174, N-0882 Oslo (NO).

(74) Agent: **DEHNS**; St Bride's House, 10 Salisbury Square, London, EC4Y 8JD (GB).

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(54) Title: GAS SENSORS

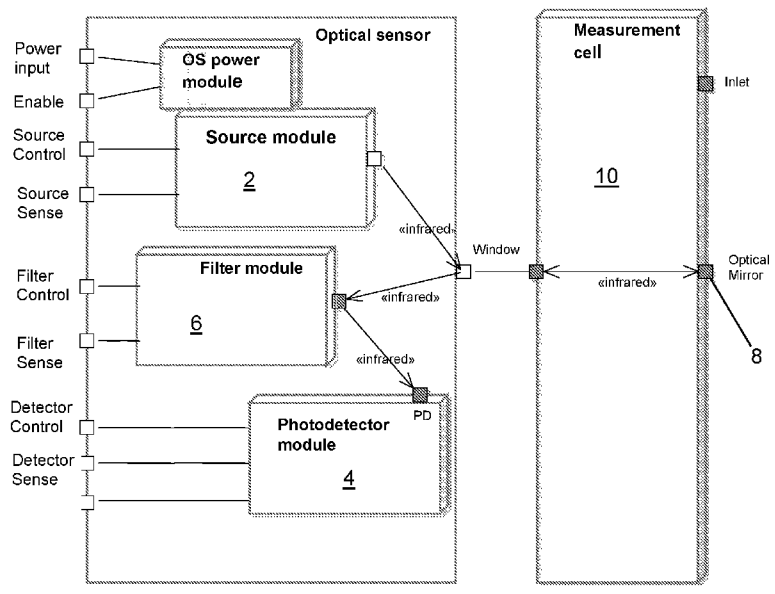


Fig. 5

(57) Abstract: A gas sensor for measuring concentration of a predetermined gas comprises a light source(2)arranged to emit pulses of light, a measurement volume(10), a detector(4)arranged to receive light that has passed through the measurement volume(10), and an adaptable filter(6)disposed between the light source(2) and the detector(4).The gas sensor has a measurement state in which it passes at least one wavelength band which is absorbed by the gas and a reference state in which said wavelength band is attenuated relative to the measurement state. The adaptable filter(6) is arranged to change between one of said measurement state and said reference state to the other at least once during each pulse.

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