

Title (en)

HIGH-TEMPERATURE CHEMICAL SENSOR

Title (de)

CHEMISCHER SENSOR FÜR HOHE TEMPERATUR

Title (fr)

CAPTEUR CHIMIQUE HAUTE TEMPERATURE

Publication

**EP 0764270 A1 19970326 (FR)**

Application

**EP 96912072 A 19960405**

Priority

- FR 9600520 W 19960405
- FR 9504176 A 19950407

Abstract (en)

[origin: WO9631773A1] A chemical sensor comprising a combination of a sensitive layer (C) and an acoustic wave transducer that is stable at very high temperatures. The acoustic wave transducer includes a piezoelectric GaPO<sub>4</sub> crystal, and the sensitive layer (C) may be a semiconductor oxide layer such as an SnO<sub>2</sub>, TiO<sub>2</sub> or ZrO<sub>2</sub> layer sensitive to gas molecules such as CO and NOX. Said sensor is useful in motor vehicles for sensing exhaust gases.

IPC 1-7

**G01N 29/02**

IPC 8 full level

**G01N 29/02** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 9631773A1

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