PROCESS AND DEVICE FOR MEASURING THE AMOUNT OF IMPURITIES IN A GAS SAMPLE TO BE ANALYSED

ABSTRACT

This process for measuring the amount of impurities in a gas sample filling a laser absorption spectroscopy analysis cell (12) consists in calculating the value of a characteristic representative of the absorbance of the gas sample, at a given pressure, and quantifying the impurities on the basis of a predetermined law for the variation of the characteristic as a function of the amount of impurities. The characteristic consists of a quantity which varies linearly at constant pressure as a function of the amount of impurities, the impurities being quantified on the basis of a value of the coefficient of proportionality between the amount of impurities and the characteristic, determined on the basis of a table of variation of the said characteristic as a function of pressure, for a given amount of impurities.

Fig. 1