

Title (en)
LONG-TERM SAMPLING SYSTEM

Title (de)
LANGZEITPROBENNAHMESYSTEM

Title (fr)
SYSTEME DE PRELEVEMENT LONGUE DUREE

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Application
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Abstract (en)
[origin: WO02101361A1] The invention relates to a long-term sampling system used to continuously monitor dust and pollutant emission and to determine dust emission in flowing media by taking isokinetic samples of a partial gas flow from the main gas flow of a source of pollutants by means of a partial flow sampling probe (2) and by removing the dusts by cake filtration on an ultra-fine filter (18, 19) and of volatile, that is filter-passing chemical substances dissolved in the partial gas flow on an adsorber stage (23, 24). The aim of the invention is to modify the long-term sampling system so that in addition to continuously carry out quantitative long-term sampling of dusts in flowing systems the system is also adapted to quantitatively determine volatile and thus filter-passing substances with an optimized, that is more sensitive detection limit and a simultaneously reduced costs and time required for measuring. To this aim, during the continuous monitoring, the entire partial gas flow flows through the adsorber stage (23, 24) which is mounted downstream of the ultra-fine filter (18, 19).

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