

Title (en)

IMPROVED PROBE FOR MEASURING PHYSICAL PARAMETERS OF A FLUID FLOW

Title (de)

VERBESSERTE SONDE ZUR KONTINUIERLICHEN MESSUNG VON PHYSIKALISCHEN UND CHEMISCHEN PARAMETERN IN EINER STRÖMUNG

Title (fr)

SONDE PERFECTIONNEE POUR LA MESURE DE PARAMETRES PHYSIQUES D'UN ECOULEMENT DE FLUIDE

Publication

**EP 1049914 A1 20001108 (FR)**

Application

**EP 99956075 A 19991118**

Priority

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- FR 9814552 A 19981119

Abstract (en)

[origin: FR2786272A1] The probe (S) measures the physical parameters of an air flow generally directed towards the rear of the probe. The probe (S) has a structure (10,20) carrying at least a sensor (C). The structure of the probe (S) includes a part (20) of which an edge (22) generally extends in front of the sensor (C) and is shaped to create turbulence. The sensor (C), see Fig. 1d, extends into the axial region (L) of the turbulence. The turbulence is sheltered behind the structure part (20) with respect to the air flow. The sensor (C) is a temperature sensor which includes a resistance with a positive temperature coefficient, platinum or thermocouple. The structure (20) is designed to be mounted with a non zero incident angle (  $\alpha$  ) with respect to the principal direction of airflow (X).

IPC 1-7

**G01K 13/02**

IPC 8 full level

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