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(54) Title: **DEVICE FOR MEASURING THE VELOCITY OF A FLOW OF FLUID**

(57) Abstract

A device for measuring the velocity of a flow of fluid, particularly a device of what is known as the heat removal type, in which a heat exchanger element (1) interacts with the flow of fluid, the heat exchange flow between the heat exchanger element (1) and the fluid being measured (4, 5), and the said heat exchange flow being correlated with the velocity of the flow of fluid. According to the invention, the heat exchanger element consists of an exchange surface (1), preferably substantially flat and orientable in a direction parallel to the flow of fluid so that it is in contact with the fluid, the exchange surface (1) being associated with means (3) of heating it to a predetermined mean temperature different from that of the fluid, and with means (4) of detecting the temperature gradient of the said exchange surface (1) in at least one of the directional components of the flow of fluid parallel to the exchange surface (1).

