

Title (en)
MAGNETIC INDUCTIVE SENSOR

Title (de)
MAGNETISCH-INDUKTIVER MEßAUFNEHMER

Title (fr)
CAPTEUR DE MESURE À INDUCTION MAGNÉTIQUE

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EP 2010869 A1 20090107 (DE)

Application
EP 07728065 A 20070427

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• EP 2007053598 W 20070427
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Abstract (en)
[origin: WO2007125018A1] The sensor comprises a measuring tube (1) for feeding fluid, a measurement electrode arrangement (3) for detecting electrical voltages generated in the flowing fluid, and a magnetic field system (2) attached to the outside of the measuring tube for generating a magnetic field at least partially penetrating the measuring tube and the fluid conducted inside it in operation, which induces an electrical field in the flowing fluid, wherein the magnetic field system has at least one field coil (21) through which an electrical excitation current flows at least sometimes in operation. The sensor according to the invention further comprises a coil support (24) to hold the at least one field coil on the outside of the measuring tube, wherein the measuring tube and coil support are seamlessly conjoined, so that the coil support is constructed as an integral component of the measuring tube.

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