

The invention relates to means and a method for detection and location of leakages in a system, in particular in a pipeline (1), with a collecting pipe (2) which can be permeated by a substance and is connected to a pump (3) and to a sensor (11) for said substance. A metal wire (4) provided outside and along the collecting pipe (2) is connected to the negative pole of a dc source (5). When a solution, for example salt water, flows out of a leak in the pipeline a gas, in particular hydrogen, is produced on the metal wire (4) by electrolysis. The highest concentration of the gas in the collecting pipe (2) is subsequently detected and located.