

Title (en)
DETECTION OF A LEAKAGE IN A SUPPLY GRID

Title (de)
DETEKTION EINER LECKAGE IN EINEM VERSORGUNGSNETZ

Title (fr)
DÉTECTION D'UNE FUITE DANS UN RÉSEAU DE DISTRIBUTION

Publication
EP 3906397 A1 20211110 (DE)

Application
EP 20707014 A 20200218

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Abstract (en)
[origin: WO2020173750A1] The invention relates to a method for detecting a leakage of fluid in a supply grid (10). The supply grid (10) has pipes (11) through which the fluid flows, first sensors (14) for measuring the flow of the fluid at first locations in the supply grid (10), and at least one second sensor (15) for measuring the flow of the fluid at a second location in the supply grid (10). The method has the following steps: a) measuring the flow of the fluid at the first locations by means of the first sensors (14); b) predicting the flow at the second location by means of a self-learning system (SS) on the basis of the values of the flows measured in step a) at the first locations, wherein the self-learning system (SS) has been trained to predict the flow at a specified location in the supply grid (10); c) measuring the actual flow of the fluid at the second location by means of the second sensor (15) located at the second location; d) ascertaining the difference between the actual flow measured at the second location and the flow at the second location predicted by the trained system (SS); and e) outputting a notification of an assumed leakage if the ascertained difference is greater than a specified threshold (G). The invention also relates to a device (30) for detecting a leakage of fluid in a supply grid (10) and to an assembly comprising a supply grid (10) and the aforementioned device (30).

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