

Title (en)

METHOD OF LOCATING LEAKY POINTS IN PIPELINES AND PIPELINE SYSTEMS, IN PARTICULAR FOR TRANSMITTING HEAT OVER GREAT DISTANCES

Title (de)

VERFAHREN ZUR ORTUNG UNDICHTER STELLEN IN ROHRLEITUNGEN UND ROHRLEITUNGSSYSTEM, INSBESONDERE FÜR DIE ÜBERTRAGUNG VON FERNWÄRME

Title (fr)

PROCEDE DE LOCALISATION DE POINTS NON ETANCHES DE CONDUITES ET SYSTEME DE CONDUITES, NOTAMMENT POUR TRANSMETTRE DE LA CHALEUR A GRANDE DISTANCE

Publication

EP 0918982 A1 19990602 (DE)

Application

EP 96929265 A 19960816

Priority

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- EP 9603618 W 19960816

Abstract (en)

[origin: DE19519650A1] The invention concerns a pipeline system for transmitting heat or other fluid media over great distances, the pipeline system comprising an inner pipe which guides the medium, an outer pipe surrounding the inner pipe at a spacing, filler material, and a sensor lead or pipe made of copper or the like in the space between the two pipes. Leaky points in the pipeline system are detected either by means of resistance localization or transfer time localization. This is achieved using copper sensor leads or pipes, which hitherto were unsuitable for resistance localization, by associating with the pipeline at one or a plurality of predetermined points switches which can produce a low-resistance connection between the sensor lead or pipe and the pipeline in order to simulate a fault location, and/or temperature-measuring sensors which indicate the influence different temperatures have on the resistance of the sensor leads or pipes at predetermined points. When a low-resistance connection of this type is established, it is possible to check by means of localization, for example resistance localization, whether or not the location of the simulated error detected by localization deviates from the location known from the position of the switch. The switches distributed over the route and/or the temperature comparison is/are used to determine and introduce correction values into the localization process.

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G01M 3/18

IPC 8 full level

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