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TITOLO SISTEMA AUTOALIMENTATO TRAMITE GENERATORE A TURBINA PER
IL CONTROLLO ED IL MONITORAGGIO REMOTO DI ACQUA E GAS

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(54) Title: SELF-POWERED FLOW-METER WITH WIRELESS CONNECTION TO CENTRAL UNIT

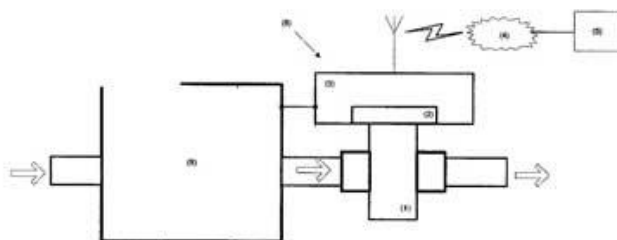


Figure 1

(57) Abstract: This invention consists of a configurable device that is self sufficient as far as the energetic requirement (by transformation of the kinetic energy of the flow crossing it into electric energy and the optimal strategy of accumulation and use of this) of tele reading which can be integrated into the current monitoring system for water and gas net, and it is able to transmit data, by wireless links. The pervasive installation of this invention in a water net, for example, will permit to extend the current functions offered by the manager with. 1) Automatic reading for the consumptions and memorisation, in its own memory for supplementary information as data and other parameters. 2) Periodical Transmission of the readings to the management central office by GSM/GPRS/UMTS/EDGE or zigbee net. 3) Simplified management of all installed meters on the territory near the operative central by the management software which permits the visualisation and the control of the meters. 4) Communication to the central unit for damages to water net by sms to the central and to the responsible of the plant maintenance company. 5) Activation of a series of signalling and alarms realised in messages on the display which the invention is endowed with (excessive water consumption, alarm for possible loss or forgotten open tap, timely suspension, of supply). 6) Possibility for the water manager, having at disposal readings for great part of the net, to estimate and localise probable losses of the water net.

WO 2009/147691 A1