Title (en)

TELEMETRIC HYDRANT FOR MEASURING, COLLECTING AND WIRELESS TRANSFER OF MEASURED VALUES TO THE DATABASE ON THE REMOTE COMPUTER

Title (de)

TELEMETRISCHER HYDRANT ZUR MESSUNG, ERHEBUNG UND DRAHTLOSEN ÜBERTRAGUNG VON MESSWERTEN ZU EINER DATENBANK AUF EINEM ENTFERNTEN RECHNER

Title (fr)

PRISE D'EAU À TÉLÉMESURE POUR MESURER, COLLECTER ET TRANSFÉRER DE MANIÈRE SANS FIL DES VALEURS MESURÉES À LA BASE DE DONNÉES SUR L'ORDINATEUR DISTANT

Publication

EP 2875190 A2 20150527 (EN)

Application

EP 13762544 A 20130715

Priority

- HR P20120603 A 20120723
- HR 2013000021 W 20130715

Abstract (en)

[origin: WO2014016625A2] The telemetric hydrant is a unique unit that is composed of the following elements: working housing (13) of the water supply hydrant, measuring device - sensor (1), logical control device - PLC (2), communication device (3), power storage - battery (7) and photovoltaic cells (5) as a source of electric power and battery chargning and discharging controller (6). All devices except the sensor (1) are mounted into a common housing (11), (12), (13) or (14). Apart from its function to take water, telemetric hydrant is also an energy-independant device for detection of measured quantities, such as pressure, temperature, flow, water quality, detection of opening, etc., to the center for controlling and monitoring the water supply system (dispatch center). The power supply of the telemetric hydrant device is realized by batteries (7) which are charged by photovoltaic cells (5). This technical solution can be applied to overground and underground hydrants, provided that in the overground hydrants the photovoltaic cells (5) are mounted on or in the housing while in underground hydrants the photovoltaic cells (5) are placed in the road lids (10) of various shapes whose purpose is closing the hydrants, valve chambers, deep reservoirs of cathodic protection, piezometers, drains and shafts, etc. By applying this solution measuring points can be placed on the pipelines in a simple and inexpensive way, as well as collecting numerous data on the state of the water supply network which are necessary for proper and efficient management of the water supply system.

IPC 8 full level

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CPC (source: EP)

A62C 35/20 (2013.01); **H01Q 1/2233** (2013.01); E03B 9/04 (2013.01); G01F 15/063 (2013.01)

Citation (search report)

See references of WO 2014016625A2

Cited by

CN109218343A; CN115404941A; CN104537048A

Designated contracting state (EPC)

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