

Title (en)

METHOD AND APPARATUS FOR THE SECTIONAL CLEANING, ALONG WITH SIMULTANEOUS DISINFECTION, OF BURIED PIPELINES IN THE PUBLIC DRINKING WATER NETWORK

Title (de)

VERFAHREN UND EINRICHTUNG ZUR ABSCHNITTSGEWEISEN REINIGUNG, BEI GLEICHZEITIGER DESINFEKTION, VON ERDVERLEGTEEN ROHRLEITUNGEN DES ÖFFENTLICHEN TRINKWASSERNETZES

Title (fr)

PROCÉDÉ ET DISPOSITIF DE NETTOYAGE PAR SECTIONS, AVEC DÉSINFECTION SIMULTANÉE, DE CONDUITES ENTERRÉES DU RÉSEAU D'EAU POTABLE PUBLIC

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Abstract (en)

[origin: WO2012022739A1] Method and apparatus for the sectional cleaning, along with simultaneous disinfection, of buried pipelines in the public drinking water network. The invention relates to a combined method for the sectional cleaning of pipelines, along with simultaneous disinfection, of buried pipelines in the public drinking water network, wherein a valved-off portion, or a portion which is separated temporarily, in an open ditch, from the rest of the drinking water network, is subjected, in a first step, via a mobile apparatus, to the action of a cleaning liquid which is pumped in circulation and has metered into it compressed air and a mixture of low-concentration chemical additives for dissolving encrustation and for disinfecting purposes and, following each throughput of cleaning liquid, the cleaning liquid is pre-clarified via a multi-chamber arrangement of settling tanks (1), and therefore, once dissolved solid particles have settled, the cleaning liquid is supplemented only to a slight extent by fresh water to reach the level of the required cleaning-liquid throughput and progress of the cleaning is monitored, inter alia, by means of turbidity measurement, in a second step - following completion of the circulation of the cleaning liquid - the latter remains for a defined period, during a rest phase for dissolving final residues/deposits, in the pipeline which is to be cleaned, wherein, in a third step - following completion of cleaning in accordance with the first and second steps - the chemical additives in the cleaning liquid are neutralized and fed to a drainage ditch, in a fourth step the cleaned drinking-water pipe (5) is subjected to final rinsing with fresh water and, in a fifth step, the inner wall of the pipe has an inhibitor solution applied to it in order to protect it against corrosion. The invention is constituted by a method which can be implemented in preferably five steps and by an apparatus for realizing the method.

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