Title (en)

IMPROVEMENT TO INSTALLATIONS WHICH ARE USED TO LOWER AN AQUIFER IN A POROUS SUBSTRATE BY MEANS OF DRAINAGE, IN ORDER TO ENABLE THE DEPOSITION OF A SOLID SEDIMENTARY MATERIAL

Title (de)

VERBESSERUNGEN AN ANLAGEN, DIE ZUR ABSENKUNG EINER WASSERSCHICHT IN EINEM PORÖSEN SUBSTRAT MITTELS DRAINAGE VERWENDET WERDEN, UM DIE ABLAGERUNG EINES FESTEN SEDIMENTMATERIALS ZU ERMÖGLICHEN

Title (fr)

PERFECTIONNEMENT AUX INSTALLATIONS ASSURANT L'ABAISSEMENT PAR DRAINAGE D'UNE NAPPE AQUIFERE DANS UN SUBSTRAT POREUX POUR PERMETTRE LA DEPOSE D'UNE MATIERE SOLIDE SEDIMENTAIRE

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Application

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Abstract (en)

[origin: WO2005033419A2] The invention relates to an improvement to installations which are used to lower an aquifer in a porous substrate (5), particularly sand, by means of drainage, in order to enable the deposition of a solid sedimentary material which is suspended in a natural body of water (2) that is subject to variations in level and which is associated with the porous substrate (5), by reducing the hydraulic pressure inside said substrate. The installation comprises at least one water collection drain (6, 6') which is buried in the substrate (5). The aforementioned drain (6, 6') is connected to a gathering station (10) by means of a manifold system (12, 12'), said station being equipped with a pumping system (13) which is designed to pump the water collected. The above-mentioned manifold system (12, 12') conveys the water collected by the drain(s) (6, 6') into the gathering station (10) by means of gravity. According to the invention, the installation comprises means (20, 20') for automatically determining the level of the natural water body (2), which are connected to means (18 and, optionally, 16, 16') for stopping the pumping system (13) directly or indirectly when the level of the natural water body (2) is above a determined threshold value. In addition, the means used for automatically determining the level of the natural water body (2) preferably take the form of a piezometric-type pressure sensor (20, 20').

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IPC 8 full level

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